

LAB CHRONICLE

OrderID:	Q3194	OrderDate:	9/25/2025 9:03:00 AM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	A21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3194-01	TT189D1-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-02	RW11-MW01S-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-05	TT150S1-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-06	RW8-MW01D2-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-07	RW8-MW01D3-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-08	TT188S1-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-09	TT192D2-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-10	TT192D1-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-11	DUP10-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25
Q3194-12	RW11-MW01I-20250922	Water	SVOC-SIMGroup1	8270-Modified	09/22/25	09/26/25	10/06/25	09/24/25

LAB CHRONICLE

Q3194-13	TT163S1-20250924	Water			09/24/25			09/24/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/06/25	
Q3194-14	RE139D1-20250924	Water			09/24/25			09/24/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3194-15	EB05-20250924	Water			09/24/25			09/24/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3194-16	EB06-20250924	Water			09/24/25			09/24/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3194-17	FB01-20250924	Water			09/24/25			09/24/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet SW-846

SDG No.: Q3194
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT189D1-20250922									
Q3194-01	TT189D1-20250922	WATER	1,4-Dioxane	3.600		0.07	0.2	0.2	ug/L
			Total Svoc :			3.60			
			Total Concentration:			3.60			
Client ID : RW11-MW01S-20250922									
Q3194-02	RW11-MW01S-20250922	WATER	1,4-Dioxane	0.080	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.08			
			Total Concentration:			0.08			
Client ID : TT150S1-20250922									
Q3194-05	TT150S1-20250922	WATER	1,4-Dioxane	0.250		0.07	0.21	0.21	ug/L
			Total Svoc :			0.25			
			Total Concentration:			0.25			
Client ID : TT188S1-20250922									
Q3194-08	TT188S1-20250922	WATER	1,4-Dioxane	0.120	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.12			
			Total Concentration:			0.12			
Client ID : TT192D2-20250922									
Q3194-09	TT192D2-20250922	WATER	1,4-Dioxane	0.940		0.07	0.2	0.2	ug/L
			Total Svoc :			0.94			
			Total Concentration:			0.94			
Client ID : TT192D1-20250922									
Q3194-10	TT192D1-20250922	WATER	1,4-Dioxane	1.500		0.07	0.2	0.2	ug/L
			Total Svoc :			1.50			
			Total Concentration:			1.50			
Client ID : DUP10-20250922									
Q3194-11	DUP10-20250922	WATER	1,4-Dioxane	1.200		0.07	0.2	0.2	ug/L
			Total Svoc :			1.20			
			Total Concentration:			1.20			
Client ID : TT163S1-20250924									
Q3194-13	TT163S1-20250924	WATER	1,4-Dioxane	0.300		0.07	0.2	0.2	ug/L
			Total Svoc :			0.30			
			Total Concentration:			0.30			
Client ID : RE139D1-20250924									
Q3194-14	RE139D1-20250924	WATER	1,4-Dioxane	1.400		0.07	0.2	0.2	ug/L
			Total Svoc :			1.40			

Hit Summary Sheet SW-846

SDG No.: Q3194
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	1.40					
Client ID :	EB05-20250924								
Q3194-15	EB05-20250924	WATER	1,4-Dioxane	0.110	J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.11					
			Total Concentration:	0.11					
Client ID :	EB06-20250924								
Q3194-16	EB06-20250924	WATER	1,4-Dioxane	0.110	J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.11					
			Total Concentration:	0.11					
Client ID :	FB01-20250924								
Q3194-17	FB01-20250924	WATER	1,4-Dioxane	0.120	J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.12					
			Total Concentration:	0.12					



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/24/25
Client Sample ID:	TT189D1-20250922	SDG No.:	Q3194
Lab Sample ID:	Q3194-01	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
BN038009.D	1	09/26/25 12:50	10/06/25 14:56	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.60		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	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	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	8300	7.804				
1146-65-2	Naphthalene-d8	24200	10.605				
15067-26-2	Acenaphthene-d10	12800	14.462				
1517-22-2	Phenanthrene-d10	26600	17.211				
1719-03-5	Chrysene-d12	18900	21.393				
1520-96-3	Perylene-d12	13800	23.712				

U = Not Detected

LOQ = Limit of Quantitation

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E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25	
Client Sample ID:	RW11-MW01S-20250922		SDG No.:	Q3194	
Lab Sample ID:	Q3194-02		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038006.D	1	09/26/25 12:50	10/06/25 12:31	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	J	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	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	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	8150		7.804			
1146-65-2	Naphthalene-d8	22900		10.605			
15067-26-2	Acenaphthene-d10	11900		14.462			
1517-22-2	Phenanthrene-d10	23800		17.211			
1719-03-5	Chrysene-d12	14900		21.393			
1520-96-3	Perylene-d12	11300		23.712			

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Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	TT150S1-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-05		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
BN038010.D	1	09/26/25 12:50	10/06/25 15:33	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.25		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	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	8750		7.804			
1146-65-2	Naphthalene-d8	24900		10.605			
15067-26-2	Acenaphthene-d10	12400		14.462			
1517-22-2	Phenanthrene-d10	23800		17.211			
1719-03-5	Chrysene-d12	14200		21.393			
1520-96-3	Perylene-d12	11500		23.709			

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	RW8-MW01D2-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-06		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
BN038011.D	1	09/26/25 12:50	10/06/25 16:09	PB169903

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	0.27		30 - 150		66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		146%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8360		7.804			
1146-65-2	Naphthalene-d8	23700		10.605			
15067-26-2	Acenaphthene-d10	12600		14.462			
1517-22-2	Phenanthrene-d10	24900		17.211			
1719-03-5	Chrysene-d12	16100		21.393			
1520-96-3	Perylene-d12	11900		23.709			

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Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	RW8-MW01D3-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-07		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
BN038012.D	1	09/26/25 12:50	10/06/25 16:46	PB169903

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	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8650		7.804			
1146-65-2	Naphthalene-d8	23200		10.605			
15067-26-2	Acenaphthene-d10	11300		14.462			
1517-22-2	Phenanthrene-d10	21000		17.211			
1719-03-5	Chrysene-d12	13200		21.393			
1520-96-3	Perylene-d12	11600		23.709			

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Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	TT188S1-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-08		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
BN038013.D	1	09/26/25 12:50	10/06/25 17:22	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.12	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		148%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8440		7.804			
1146-65-2	Naphthalene-d8	23300		10.605			
15067-26-2	Acenaphthene-d10	11700		14.462			
1517-22-2	Phenanthrene-d10	22800		17.211			
1719-03-5	Chrysene-d12	13600		21.393			
1520-96-3	Perylene-d12	10500		23.712			

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	TT192D2-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-09		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038014.D	1	09/26/25 12:50	10/06/25 17:59	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.94		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7710		7.804			
1146-65-2	Naphthalene-d8	21900		10.605			
15067-26-2	Acenaphthene-d10	11200		14.462			
1517-22-2	Phenanthrene-d10	22400		17.21			
1719-03-5	Chrysene-d12	14000		21.393			
1520-96-3	Perylene-d12	10500		23.709			

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Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	TT192D1-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-10		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038015.D	1	09/26/25 12:50	10/06/25 18:35	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7820		7.804			
1146-65-2	Naphthalene-d8	22800		10.605			
15067-26-2	Acenaphthene-d10	11000		14.462			
1517-22-2	Phenanthrene-d10	22300		17.211			
1719-03-5	Chrysene-d12	13000		21.393			
1520-96-3	Perylene-d12	3370		23.712			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	DUP10-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-11		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
BN038016.D	1	09/26/25 12:50	10/06/25 19:12	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	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	8050	7.804				
1146-65-2	Naphthalene-d8	23900	10.605				
15067-26-2	Acenaphthene-d10	12800	14.462				
1517-22-2	Phenanthrene-d10	23600	17.211				
1719-03-5	Chrysene-d12	14400	21.393				
1520-96-3	Perylene-d12	11900	23.709				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	RW11-MW011-20250922		SDG No.:	Q3194
Lab Sample ID:	Q3194-12		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
BN038017.D	1	09/26/25 12:50	10/06/25 19:48	PB169903

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	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8350	7.804				
1146-65-2	Naphthalene-d8	24000	10.605				
15067-26-2	Acenaphthene-d10	12000	14.462				
1517-22-2	Phenanthrene-d10	21800	17.21				
1719-03-5	Chrysene-d12	13500	21.393				
1520-96-3	Perylene-d12	12300	23.709				

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MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/24/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	TT163S1-20250924		SDG No.:	Q3194
Lab Sample ID:	Q3194-13		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
BN038018.D	1	09/26/25 12:50	10/06/25 20:24	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	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		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		146%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8750	7.803				
1146-65-2	Naphthalene-d8	23800	10.604				
15067-26-2	Acenaphthene-d10	12400	14.462				
1517-22-2	Phenanthrene-d10	24600	17.21				
1719-03-5	Chrysene-d12	14300	21.384				
1520-96-3	Perylene-d12	11300	23.709				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/24/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	RE139D1-20250924		SDG No.:	Q3194
Lab Sample ID:	Q3194-14		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
BN038024.D	1	09/26/25 12:50	10/07/25 00:44	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	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	7640	7.804				
1146-65-2	Naphthalene-d8	21700	10.605				
15067-26-2	Acenaphthene-d10	11000	14.462				
1517-22-2	Phenanthrene-d10	21100	17.21				
1719-03-5	Chrysene-d12	14400	21.384				
1520-96-3	Perylene-d12	12300	23.706				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/24/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	EB05-20250924		SDG No.:	Q3194
Lab Sample ID:	Q3194-15		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
BN038025.D	1	09/26/25 12:50	10/07/25 01:21	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7980		7.804			
1146-65-2	Naphthalene-d8	22700		10.605			
15067-26-2	Acenaphthene-d10	11200		14.462			
1517-22-2	Phenanthrene-d10	20100		17.211			
1719-03-5	Chrysene-d12	14000		21.384			
1520-96-3	Perylene-d12	12300		23.703			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/24/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	EB06-20250924		SDG No.:	Q3194
Lab Sample ID:	Q3194-16		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
BN038026.D	1	09/26/25 12:50	10/07/25 01:57	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	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	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7810		7.804			
1146-65-2	Naphthalene-d8	22100		10.605			
15067-26-2	Acenaphthene-d10	10300		14.462			
1517-22-2	Phenanthrene-d10	18400		17.211			
1719-03-5	Chrysene-d12	13600		21.384			
1520-96-3	Perylene-d12	12000		23.706			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/24/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	FB01-20250924		SDG No.:	Q3194
Lab Sample ID:	Q3194-17		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
BN038027.D	1	09/26/25 12:50	10/07/25 02:33	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.12	J	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	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	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	8000		7.804			
1146-65-2	Naphthalene-d8	21600		10.605			
15067-26-2	Acenaphthene-d10	9950		14.462			
1517-22-2	Phenanthrene-d10	18300		17.211			
1719-03-5	Chrysene-d12	14300		21.384			
1520-96-3	Perylene-d12	13600		23.706			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3194

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169903BL	PB169903BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.29	74		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
PB169903BS	PB169903BS	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.28	69		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q3194-01	TT189D1-20250922	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q3194-02	RW11-MW01S-20250922	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q3194-03MS	RW11-MW01S-20250922MS	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132
Q3194-04MSD	RW11-MW01S-20250922MSD	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.60	151	*	58	132
Q3194-05	TT150S1-20250922	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.61	151	*	58	132
Q3194-06	RW8-MW01D2-20250922	2-Methylnaphthalene-d10	0.4	0.27	66		30	150
		Fluoranthene-d10	0.4	0.34	86		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.59	146	*	58	132
Q3194-07	RW8-MW01D3-20250922	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q3194-08	TT188S1-20250922	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.59	148	*	58	132
Q3194-09	TT192D2-20250922	2-Methylnaphthalene-d10	0.4	0.26	64		30	150

Surrogate Summary

SW-846

SDG No.: Q3194

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3194-09	TT192D2-20250922	Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
Q3194-10	TT192D1-20250922	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
Q3194-11	DUP10-20250922	Terphenyl-d14	0.4	0.56	141	*	58	132
		2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.29	72		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
Q3194-12	RW11-MW01I-20250922	2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
		2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
Q3194-13	TT163S1-20250924	Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
		2-Methylnaphthalene-d10	0.4	0.26	65		30	150
Q3194-14	RE139D1-20250924	Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.59	146	*	58	132
Q3194-15	EB05-20250924	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
Q3194-16	EB06-20250924	Terphenyl-d14	0.4	0.50	125		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
Q3194-17	FB01-20250924	2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
		2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
		2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.49	123		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.:

Q3194

Analytical Method:

SW8270-Modified

Client:

AECOM Technical Services, Inc.

DataFile:

BN038007.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3194-03MS	Client Sample ID:	RW11-MW01S-20250922MS								
1,4-Dioxane	0.4	0.080	0.36	ug/L	70				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.:

Q3194

Analytical Method:

SW8270-Modified

Client:

AECOM Technical Services, Inc.

DataFile:

BN038008.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3194-04MSD	Client Sample ID:	RW11-MW01S-20250922MSD								
1,4-Dioxane	0.4	0.080	0.36	ug/L	70		0		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3194

Analytical Method: 8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN038019.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169903BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169903BL

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3194

Lab File ID: BN038005.D Lab Sample ID: PB169903BL

Instrument ID: BNA_N Date Extracted: 09/26/2025

Matrix: (soil/water) Water Date Analyzed: 10/06/2025

Level: (low/med) LOW Time Analyzed: 11:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169903BS	PB169903BS	BN038019.D	10/06/2025
RW11-MW01S-20250922	Q3194-02	BN038006.D	10/06/2025
RW11-MW01S-20250922MS	Q3194-03MS	BN038007.D	10/06/2025
RW11-MW01S-20250922MSD	Q3194-04MSD	BN038008.D	10/06/2025
TT189D1-20250922	Q3194-01	BN038009.D	10/06/2025
TT150S1-20250922	Q3194-05	BN038010.D	10/06/2025
RW8-MW01D2-20250922	Q3194-06	BN038011.D	10/06/2025
RW8-MW01D3-20250922	Q3194-07	BN038012.D	10/06/2025
TT188S1-20250922	Q3194-08	BN038013.D	10/06/2025
TT192D2-20250922	Q3194-09	BN038014.D	10/06/2025
TT192D1-20250922	Q3194-10	BN038015.D	10/06/2025
DUP10-20250922	Q3194-11	BN038016.D	10/06/2025
RW11-MW01I-20250922	Q3194-12	BN038017.D	10/06/2025
TT163S1-20250924	Q3194-13	BN038018.D	10/06/2025
RE139D1-20250924	Q3194-14	BN038024.D	10/07/2025
EB05-20250924	Q3194-15	BN038025.D	10/07/2025
EB06-20250924	Q3194-16	BN038026.D	10/07/2025
FB01-20250924	Q3194-17	BN038027.D	10/07/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3194
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
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
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038003.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3194
DFTPP Injection Date: 10/06/2025
DFTPP Injection Time: 10:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	76.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.5 (20.2) 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	BN038004.D	10/06/2025	11:06
PB169903BL	PB169903BL	BN038005.D	10/06/2025	11:55
RW11-MW01S-20250922	Q3194-02	BN038006.D	10/06/2025	12:31
RW11-MW01S-20250922MS	Q3194-03MS	BN038007.D	10/06/2025	13:44
RW11-MW01S-20250922MSD	Q3194-04MSD	BN038008.D	10/06/2025	14:20
TT189D1-20250922	Q3194-01	BN038009.D	10/06/2025	14:56
TT150S1-20250922	Q3194-05	BN038010.D	10/06/2025	15:33
RW8-MW01D2-20250922	Q3194-06	BN038011.D	10/06/2025	16:09
RW8-MW01D3-20250922	Q3194-07	BN038012.D	10/06/2025	16:46
TT188S1-20250922	Q3194-08	BN038013.D	10/06/2025	17:22
TT192D2-20250922	Q3194-09	BN038014.D	10/06/2025	17:59
TT192D1-20250922	Q3194-10	BN038015.D	10/06/2025	18:35
DUP10-20250922	Q3194-11	BN038016.D	10/06/2025	19:12
RW11-MW01I-20250922	Q3194-12	BN038017.D	10/06/2025	19:48
TT163S1-20250924	Q3194-13	BN038018.D	10/06/2025	20:24
PB169903BS	PB169903BS	BN038019.D	10/06/2025	21:01
SSTDCCC0.4EC	SSTDCCC0.4	BN038020.D	10/06/2025	21:37

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038021.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3194
DFTPP Injection Date: 10/06/2025
DFTPP Injection Time: 22:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	81.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (21.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038022.D	10/06/2025	23:32
RE139D1-20250924	Q3194-14	BN038024.D	10/07/2025	00:44
EB05-20250924	Q3194-15	BN038025.D	10/07/2025	01:21
EB06-20250924	Q3194-16	BN038026.D	10/07/2025	01:57
FB01-20250924	Q3194-17	BN038027.D	10/07/2025	02:33
SSTDCCC0.4EC	SSTDCCC0.4	BN038039.D	10/07/2025	09:47

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3194

Client ID : SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038004.D

Time Analyzed: 11:06

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	8577	7.804	24563	10.61	12995	14.46
UPPER LIMIT	17154	8.304	49126	11.105	25990	14.962
LOWER LIMIT	4288.5	7.304	12281.5	10.105	6497.5	13.962
EPA SAMPLE NO.						
01 PB169903BL	8521	7.82	21401	10.62	9560	14.46
02 RW11-MW01S-20250922	8149	7.80	22929	10.61	11897	14.46
03 TT189D1-20250922	8295	7.80	24176	10.61	12804	14.46
04 RW11-MW01S-20250922MS	7454	7.80	19259	10.61	8854	14.46
05 RW11-MW01S-20250922MSD	7368	7.80	19533	10.61	9117	14.46
06 TT150S1-20250922	8753	7.80	24921	10.61	12370	14.46
07 RW8-MW01D2-20250922	8364	7.80	23695	10.61	12578	14.46
08 RW8-MW01D3-20250922	8647	7.80	23227	10.61	11318	14.46
09 PB169903BS	8454	7.80	22777	10.61	10545	14.46
10 TT163S1-20250924	8745	7.80	23793	10.60	12365	14.46
11 TT188S1-20250922	8436	7.80	23277	10.61	11715	14.46
12 TT192D2-20250922	7711	7.80	21865	10.61	11194	14.46
13 TT192D1-20250922	7823	7.80	22788	10.61	10971	14.46
14 DUP10-20250922	8052	7.80	23897	10.61	12790	14.46
15 RW11-MW01I-20250922	8350	7.80	23997	10.61	12038	14.46

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3194

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038004.D

Time Analyzed: 11:06

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	24790	17.211	16589	21.393	12046	23.712
	UPPER LIMIT	49580	17.711	33178	21.893	24092	24.212
	LOWER LIMIT	12395	16.711	8294.5	20.893	6023	23.212
	EPA SAMPLE NO.						
01	PB169903BL	16256	17.21	8725	21.39	8166	23.72
02	RW11-MW01S-20250922	23841	17.21	14883	21.39	11337	23.71
03	TT189D1-20250922	26628	17.21	18929	21.39	13815	23.71
04	RW11-MW01S-20250922MS	15556	17.21	10706	21.39	10137	23.71
05	RW11-MW01S-20250922MSD	15754	17.21	10676	21.39	10526	23.71
06	TT150S1-20250922	23771	17.21	14168	21.39	11452	23.71
07	RW8-MW01D2-20250922	24929	17.21	16069	21.39	11851	23.71
08	RW8-MW01D3-20250922	20950	17.21	13153	21.39	11624	23.71
09	PB169903BS	17535	17.21	9385	21.38	8566	23.71
10	TT163S1-20250924	24588	17.21	14333	21.38	11269	23.71
11	TT188S1-20250922	22848	17.21	13580	21.39	10518	23.71
12	TT192D2-20250922	22381	17.21	14037	21.39	10467	23.71
13	TT192D1-20250922	22305	17.21	12979	21.39	3373 *	23.71
14	DUP10-20250922	23623	17.21	14360	21.39	11948	23.71
15	RW11-MW01I-20250922	21770	17.21	13512	21.39	12343	23.71

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3194

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038004.D

Time Analyzed: 11:06

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	24790	17.211	16589	21.393	12046	23.712
UPPER LIMIT	49580	17.711	33178	21.893	24092	24.212
LOWER LIMIT	12395	16.711	8294.5	20.893	6023	23.212
EPA SAMPLE NO.						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3194

Client ID : SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	8262	7.804	22968	10.61	12134	14.46
UPPER LIMIT	16524	8.304	45936	11.105	24268	14.962
LOWER LIMIT	4131	7.304	11484	10.105	6067	13.962
EPA SAMPLE NO.						
01 RE139D1-20250924	7642	7.80	21692	10.61	10961	14.46
02 EB05-20250924	7983	7.80	22693	10.61	11227	14.46
03 EB06-20250924	7814	7.80	22108	10.61	10302	14.46
04 FB01-20250924	7999	7.80	21641	10.61	9946	14.46

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3194

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	22733	17.21	13562	21.384	10530	23.703
UPPER LIMIT	45466	17.71	27124	21.884	21060	24.203
LOWER LIMIT	11366.5	16.71	6781	20.884	5265	23.203
EPA SAMPLE NO.						
01 RE139D1-20250924	21094	17.21	14448	21.38	12311	23.71
02 EB05-20250924	20118	17.21	14035	21.38	12346	23.70
03 EB06-20250924	18362	17.21	13636	21.38	11958	23.71
04 FB01-20250924	18322	17.21	14348	21.38	13560	23.71

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB169903BL		SDG No.:	Q3194
Lab Sample ID:	PB169903BL		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
BN038005.D	1	09/26/25 12:50	10/06/25 11:55	PB169903

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		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		74%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	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	8520	7.818				
1146-65-2	Naphthalene-d8	21400	10.615				
15067-26-2	Acenaphthene-d10	9560	14.462				
1517-22-2	Phenanthrene-d10	16300	17.21				
1719-03-5	Chrysene-d12	8730	21.393				
1520-96-3	Perylene-d12	8170	23.718				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB169903BS		SDG No.:	Q3194
Lab Sample ID:	PB169903BS		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
BN038019.D	1	09/26/25 12:50	10/06/25 21:01	PB169903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	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	8450	7.804				
1146-65-2	Naphthalene-d8	22800	10.605				
15067-26-2	Acenaphthene-d10	10500	14.462				
1517-22-2	Phenanthrene-d10	17500	17.211				
1719-03-5	Chrysene-d12	9390	21.384				
1520-96-3	Perylene-d12	8570	23.709				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/24/25
Client Sample ID:	RW11-MW01S-20250922MS	SDG No.:	Q3194
Lab Sample ID:	Q3194-03MS	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
BN038007.D	1	09/26/25 12:50	10/06/25 13:44	PB169903

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		152%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7450	7.804				
1146-65-2	Naphthalene-d8	19300	10.605				
15067-26-2	Acenaphthene-d10	8850	14.462				
1517-22-2	Phenanthrene-d10	15600	17.211				
1719-03-5	Chrysene-d12	10700	21.393				
1520-96-3	Perylene-d12	10100	23.712				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/22/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/24/25
Client Sample ID:	RW11-MW01S-20250922MSD		SDG No.:	Q3194
Lab Sample ID:	Q3194-04MSD		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
BN038008.D	1	09/26/25 12:50	10/06/25 14:20	PB169903

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.60	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7370		7.804			
1146-65-2	Naphthalene-d8	19500		10.605			
15067-26-2	Acenaphthene-d10	9120		14.462			
1517-22-2	Phenanthrene-d10	15800		17.211			
1719-03-5	Chrysene-d12	10700		21.393			
1520-96-3	Perylene-d12	10500		23.712			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.15	
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136	0.108	16.50		
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3194</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/06/2025 11:06</u>
Lab File ID:	<u>BN038004.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.517		-7.0	20.0
Fluoranthene-d10	1.006	0.855		-15.0	20.0
2-Fluorophenol	0.913	0.772		-15.4	20.0
Phenol-d6	1.199	1.043		-13.0	20.0
Nitrobenzene-d5	0.305	0.276		-9.5	20.0
2-Fluorobiphenyl	1.638	1.612		-1.6	20.0
2,4,6-Tribromophenol	0.152	0.126		-17.1	20.0
Terphenyl-d14	0.797	0.874		9.7	20.0
1,4-Dioxane	0.406	0.380		-6.4	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3194</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/06/2025 21:37</u>
Lab File ID:	<u>BN038020.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.492		-11.5	50.0
Fluoranthene-d10	1.006	0.825		-18.0	50.0
2-Fluorophenol	0.913	0.845		-7.4	50.0
Phenol-d6	1.199	1.102		-8.1	50.0
Nitrobenzene-d5	0.305	0.272		-10.8	50.0
2-Fluorobiphenyl	1.638	1.550		-5.4	50.0
2,4,6-Tribromophenol	0.152	0.129		-15.1	50.0
Terphenyl-d14	0.797	0.945		18.6	50.0
1,4-Dioxane	0.406	0.408		0.5	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3194
 Instrument ID: BNA_N Calibration Date/Time: 10/06/2025 23:32
 Lab File ID: BN038022.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.504		-9.4	20.0
Fluoranthene-d10	1.006	0.813		-19.2	20.0
2-Fluorophenol	0.913	0.764		-16.3	20.0
Phenol-d6	1.199	1.067		-11.0	20.0
Nitrobenzene-d5	0.305	0.290		-4.9	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
2,4,6-Tribromophenol	0.152	0.125		-17.8	20.0
Terphenyl-d14	0.797	0.905		13.6	20.0
1,4-Dioxane	0.406	0.372		-8.4	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3194</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/07/2025 09:47</u>
Lab File ID:	<u>BN038039.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.515		-7.4	50.0
Fluoranthene-d10	1.006	0.820		-18.5	50.0
2-Fluorophenol	0.913	0.850		-6.9	50.0
Phenol-d6	1.199	1.108		-7.6	50.0
Nitrobenzene-d5	0.305	0.291		-4.6	50.0
2-Fluorobiphenyl	1.638	1.521		-7.1	50.0
2,4,6-Tribromophenol	0.152	0.117		-23.0	50.0
Terphenyl-d14	0.797	0.944		18.4	50.0
1,4-Dioxane	0.406	0.426		4.9	50.0

All other compounds must meet a minimum RRF of 0.010.