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

LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**Water**			**01/16/25**			**01/16/25**
			SVOC-TCL BNA -20	8270E		01/17/25	01/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW10A-20250116**								
Q1122-01	RW10A-20250116	WATER	2-Pentanone, 4-hydroxy-4-methyl *	3.700	AB	0		0	ug/L
			Total Tics :		**3.70**				
			Total Concentration:		**3.70**				

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.10	U	4.00	8.10	10.1	ug/L
108-95-2	Phenol	4.00	U	0.94	4.00	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	1.20	4.00	5.10	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.72	4.00	5.10	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	4.00	U	1.40	4.00	5.10	ug/L
98-86-2	Acetophenone	4.00	U	1.10	4.00	5.10	ug/L
65794-96-9	3+4-Methylphenols	8.10	U	1.20	8.10	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	1.00	4.00	5.10	ug/L
98-95-3	Nitrobenzene	4.00	U	1.30	4.00	5.10	ug/L
78-59-1	Isophorone	4.00	U	1.20	4.00	5.10	ug/L
88-75-5	2-Nitrophenol	4.00	U	2.00	4.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.50	4.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	1.00	4.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.89	4.00	5.10	ug/L
91-20-3	Naphthalene	4.00	U	1.00	4.00	5.10	ug/L
106-47-8	4-Chloroaniline	4.00	U	1.30	4.00	5.10	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	1.30	4.00	5.10	ug/L
105-60-2	Caprolactam	8.10	U	1.70	8.10	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.85	4.00	5.10	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	1.10	4.00	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	8.10	UQ	5.10	8.10	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.90	4.00	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	1.00	4.00	5.10	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.92	4.00	5.10	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.98	4.00	5.10	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.40	4.00	5.10	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.94	4.00	5.10	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	1.10	4.00	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	1.30	4.00	5.10	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.40	4.00	5.10	ug/L
83-32-9	Acenaphthene	4.00	U	0.82	4.00	5.10	ug/L
51-28-5	2,4-Dinitrophenol	8.10	U	6.50	8.10	10.1	ug/L
100-02-7	4-Nitrophenol	8.10	U	2.00	8.10	10.1	ug/L
132-64-9	Dibenzofuran	4.00	U	0.94	4.00	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.50	4.00	5.10	ug/L
84-66-2	Diethylphthalate	4.00	U	1.10	4.00	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.99	4.00	5.10	ug/L
86-73-7	Fluorene	4.00	U	0.97	4.00	5.10	ug/L
100-01-6	4-Nitroaniline	4.00	U	2.10	4.00	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.10	U	3.10	8.10	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.90	4.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.96	4.00	5.10	ug/L
118-74-1	Hexachlorobenzene	4.00	U	1.20	4.00	5.10	ug/L
1912-24-9	Atrazine	4.00	U	1.30	4.00	5.10	ug/L
87-86-5	Pentachlorophenol	8.10	U	1.90	8.10	10.1	ug/L
85-01-8	Phenanthrene	4.00	U	0.90	4.00	5.10	ug/L
120-12-7	Anthracene	4.00	U	1.10	4.00	5.10	ug/L
86-74-8	Carbazole	4.00	U	1.20	4.00	5.10	ug/L
84-74-2	Di-n-butylphthalate	4.00	U	1.50	4.00	5.10	ug/L
206-44-0	Fluoranthene	4.00	U	1.30	4.00	5.10	ug/L
129-00-0	Pyrene	4.00	U	1.10	4.00	5.10	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	2.10	4.00	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	8.10	U	1.30	8.10	10.1	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.95	4.00	5.10	ug/L
218-01-9	Chrysene	4.00	U	0.87	4.00	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.00	U	1.90	4.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	8.10	U	2.50	8.10	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	1.20	4.00	5.10	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	1.20	4.00	5.10	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	1.70	4.00	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.00	4.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	1.20	4.00	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	1.20	4.00	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	1.10	4.00	5.10	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.30	4.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.80	4.00	5.10	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	51.2		19 - 119		34%	SPK: 150
13127-88-3	Phenol-d6	30.6		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.1		44 - 120		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.3		44 - 119		88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		43 - 140		107%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		50 - 134		80%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.81				
1146-65-2	Naphthalene-d8	630000	8.092				
15067-26-2	Acenaphthene-d10	341000	9.845				
1517-22-2	Phenanthrene-d10	587000	11.327				
1719-03-5	Chrysene-d12	417000	13.968				
1520-96-3	Perylene-d12	333000	15.427				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.70	AB			5.01	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166117BL	PB166117BL	2-Fluorophenol	150	144	96		19	119
		Phenol-d6	150	141	94		10	130
		Nitrobenzene-d5	100	97.8	98		44	120
		2-Fluorobiphenyl	100	98.6	99		44	119
		2,4,6-Tribromophenol	150	162	108		43	140
		Terphenyl-d14	100	92.3	92		50	134
PB166117BS	PB166117BS	2-Fluorophenol	150	136	91		19	119
		Phenol-d6	150	135	90		10	130
		Nitrobenzene-d5	100	94.7	95		44	120
		2-Fluorobiphenyl	100	95.4	95		44	119
		2,4,6-Tribromophenol	150	157	105		43	140
		Terphenyl-d14	100	96.5	97		50	134
PB166117BSD	PB166117BSD	2-Fluorophenol	150	134	90		19	119
		Phenol-d6	150	135	90		10	130
		Nitrobenzene-d5	100	96.2	96		44	120
		2-Fluorobiphenyl	100	96.2	96		44	119
		2,4,6-Tribromophenol	150	160	106		43	140
		Terphenyl-d14	100	99.3	99		50	134
Q1122-01	RW10A-20250116	2-Fluorophenol	150	51.2	34		19	119
		Phenol-d6	150	30.6	20		10	130
		Nitrobenzene-d5	100	86.1	86		44	120
		2-Fluorobiphenyl	100	88.3	88		44	119
		2,4,6-Tribromophenol	150	161	107		43	140
		Terphenyl-d14	100	80.4	80		50	134

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141218.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BS	Benzaldehyde	50	8.30	ug/L	17				10	161	
	Phenol	50	48.5	ug/L	97				10	132	
	bis(2-Chloroethyl)ether	50	49.2	ug/L	98				43	118	
	2-Chlorophenol	50	51.1	ug/L	102				38	117	
	2-Methylphenol	50	50.7	ug/L	101				30	117	
	2,2-oxybis(1-Chloropropane)	50	47.1	ug/L	94				37	130	
	Acetophenone	50	47.8	ug/L	96				46	118	
	3+4-Methylphenols	50	48.4	ug/L	97				29	110	
	N-Nitroso-di-n-propylamine	50	49.2	ug/L	98				49	119	
	Hexachloroethane	50	48.5	ug/L	97				21	115	
	Nitrobenzene	50	45.7	ug/L	91				45	121	
	Isophorone	50	49.4	ug/L	99				42	124	
	2-Nitrophenol	50	51.8	ug/L	104				47	123	
	2,4-Dimethylphenol	50	58.3	ug/L	117				31	124	
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97				48	120	
	2,4-Dichlorophenol	50	50.3	ug/L	101				47	121	
	Naphthalene	50	47.4	ug/L	95				40	121	
	4-Chloroaniline	50	18.2	ug/L	36				33	117	
	Hexachlorobutadiene	50	47.2	ug/L	94				22	124	
	Caprolactam	50	47.5	ug/L	95				10	161	
	4-Chloro-3-methylphenol	50	49.8	ug/L	100				52	119	
	2-Methylnaphthalene	50	48.5	ug/L	97				40	121	
	Hexachlorocyclopentadiene	100	190	ug/L	190		*		10	155	
	2,4,6-Trichlorophenol	50	51.3	ug/L	103				50	125	
	2,4,5-Trichlorophenol	50	49.2	ug/L	98				53	123	
	1,1-Biphenyl	50	48.8	ug/L	98				49	115	
	2-Chloronaphthalene	50	47.0	ug/L	94				40	116	
	2-Nitroaniline	50	49.2	ug/L	98				55	127	
	Dimethylphthalate	50	50.0	ug/L	100				45	127	
	Acenaphthylene	50	51.3	ug/L	103				41	130	
	2,6-Dinitrotoluene	50	48.7	ug/L	97				57	124	
	3-Nitroaniline	50	30.0	ug/L	60				41	128	
	Acenaphthene	50	55.1	ug/L	110				47	122	
	2,4-Dinitrophenol	100	120	ug/L	120				23	143	
	4-Nitrophenol	100	100	ug/L	100				10	161	
	Dibenzofuran	50	48.8	ug/L	98				53	118	
	2,4-Dinitrotoluene	50	51.6	ug/L	103				57	128	
	Diethylphthalate	50	49.5	ug/L	99				56	125	
	4-Chlorophenyl-phenylether	50	49.0	ug/L	98				53	121	
	Fluorene	50	49.0	ug/L	98				52	124	
	4-Nitroaniline	50	49.6	ug/L	99				35	120	
	4,6-Dinitro-2-methylphenol	50	60.4	ug/L	121				44	137	
	N-Nitrosodiphenylamine	50	50.4	ug/L	101				51	123	
	4-Bromophenyl-phenylether	50	50.9	ug/L	102				55	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141218.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BS	Hexachlorobenzene	50	51.4	ug/L	103				53	125	
	Atrazine	50	64.3	ug/L	129				44	142	
	Pentachlorophenol	100	100	ug/L	100				35	138	
	Phenanthrene	50	51.6	ug/L	103				59	120	
	Anthracene	50	53.6	ug/L	107				57	123	
	Carbazole	50	51.3	ug/L	103				60	122	
	Di-n-butylphthalate	50	52.2	ug/L	104				59	127	
	Fluoranthene	50	53.3	ug/L	107				57	128	
	Pyrene	50	46.0	ug/L	92				57	126	
	Butylbenzylphthalate	50	53.8	ug/L	108				53	134	
	3,3-Dichlorobenzidine	50	29.2	ug/L	58				27	129	
	Benzo(a)anthracene	50	47.4	ug/L	95				58	125	
	Chrysene	50	49.7	ug/L	99				59	123	
	bis(2-Ethylhexyl)phthalate	50	54.2	ug/L	108				55	135	
	Di-n-octyl phthalate	50	53.3	ug/L	107				51	140	
	Benzo(b)fluoranthene	50	54.7	ug/L	109				53	131	
	Benzo(k)fluoranthene	50	49.8	ug/L	100				57	129	
	Benzo(a)pyrene	50	55.2	ug/L	110				54	128	
	Indeno(1,2,3-cd)pyrene	50	49.4	ug/L	99				52	134	
	Dibenz(a,h)anthracene	50	48.8	ug/L	98				51	134	
	Benzo(g,h,i)perylene	50	44.9	ug/L	90				50	134	
	1,2,4,5-Tetrachlorobenzene	50	49.3	ug/L	99				35	121	
	1,4-Dioxane	50	41.3	ug/L	83				70	130	
	2,3,4,6-Tetrachlorophenol	50	51.8	ug/L	104				50	128	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141219.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BSD	Benzaldehyde	50	8.20	ug/L	16	1			10	161	20
	Phenol	50	47.7	ug/L	95	2			10	132	20
	bis(2-Chloroethyl)ether	50	48.2	ug/L	96	2			43	118	20
	2-Chlorophenol	50	51.1	ug/L	102	0			38	117	20
	2-Methylphenol	50	50.5	ug/L	101	0			30	117	20
	2,2-oxybis(1-Chloropropane)	50	46.7	ug/L	93	1			37	130	20
	Acetophenone	50	48.3	ug/L	97	1			46	118	20
	3+4-Methylphenols	50	47.8	ug/L	96	1			29	110	20
	N-Nitroso-di-n-propylamine	50	48.4	ug/L	97	2			49	119	20
	Hexachloroethane	50	47.8	ug/L	96	1			21	115	20
	Nitrobenzene	50	46.1	ug/L	92	1			45	121	20
	Isophorone	50	50.4	ug/L	101	2			42	124	20
	2-Nitrophenol	50	53.3	ug/L	107	3			47	123	20
	2,4-Dimethylphenol	50	59.3	ug/L	119	2			31	124	20
	bis(2-Chloroethoxy)methane	50	48.9	ug/L	98	1			48	120	20
	2,4-Dichlorophenol	50	50.9	ug/L	102	1			47	121	20
	Naphthalene	50	48.1	ug/L	96	1			40	121	20
	4-Chloroaniline	50	16.8	ug/L	34	8			33	117	20
	Hexachlorobutadiene	50	48.5	ug/L	97	3			22	124	20
	Caprolactam	50	50.8	ug/L	102	7			10	161	20
	4-Chloro-3-methylphenol	50	50.9	ug/L	102	2			52	119	20
	2-Methylnaphthalene	50	49.6	ug/L	99	2			40	121	20
	Hexachlorocyclopentadiene	100	190	ug/L	190	0	*		10	155	20
	2,4,6-Trichlorophenol	50	52.5	ug/L	105	2			50	125	20
	2,4,5-Trichlorophenol	50	50.4	ug/L	101	2			53	123	20
	1,1-Biphenyl	50	48.9	ug/L	98	0			49	115	20
	2-Chloronaphthalene	50	47.6	ug/L	95	1			40	116	20
	2-Nitroaniline	50	49.5	ug/L	99	1			55	127	20
	Dimethylphthalate	50	50.3	ug/L	101	1			45	127	20
	Acenaphthylene	50	52.1	ug/L	104	2			41	130	20
	2,6-Dinitrotoluene	50	48.7	ug/L	97	0			57	124	20
	3-Nitroaniline	50	29.4	ug/L	59	2			41	128	20
	Acenaphthene	50	55.9	ug/L	112	1			47	122	20
	2,4-Dinitrophenol	100	120	ug/L	120	0			23	143	20
	4-Nitrophenol	100	100	ug/L	100	0			10	161	20
	Dibenzofuran	50	49.6	ug/L	99	2			53	118	20
	2,4-Dinitrotoluene	50	51.7	ug/L	103	0			57	128	20
	Diethylphthalate	50	49.8	ug/L	100	1			56	125	20
	4-Chlorophenyl-phenylether	50	49.4	ug/L	99	1			53	121	20
	Fluorene	50	49.3	ug/L	99	1			52	124	20
	4-Nitroaniline	50	51.2	ug/L	102	3			35	120	20
	4,6-Dinitro-2-methylphenol	50	60.8	ug/L	122	1			44	137	20
	N-Nitrosodiphenylamine	50	50.2	ug/L	100	0			51	123	20
	4-Bromophenyl-phenylether	50	51.2	ug/L	102	1			55	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141219.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BSD	Hexachlorobenzene	50	51.6	ug/L	103	0			53	125	20
	Atrazine	50	63.9	ug/L	128	1			44	142	20
	Pentachlorophenol	100	100	ug/L	100	0			35	138	20
	Phenanthrene	50	51.6	ug/L	103	0			59	120	20
	Anthracene	50	54.1	ug/L	108	1			57	123	20
	Carbazole	50	51.7	ug/L	103	1			60	122	20
	Di-n-butylphthalate	50	51.5	ug/L	103	1			59	127	20
	Fluoranthene	50	53.3	ug/L	107	0			57	128	20
	Pyrene	50	48.0	ug/L	96	4			57	126	20
	Butylbenzylphthalate	50	54.8	ug/L	110	2			53	134	20
	3,3-Dichlorobenzidine	50	29.2	ug/L	58	0			27	129	20
	Benzo(a)anthracene	50	48.7	ug/L	97	3			58	125	20
	Chrysene	50	49.8	ug/L	100	0			59	123	20
	bis(2-Ethylhexyl)phthalate	50	55.1	ug/L	110	2			55	135	20
	Di-n-octyl phthalate	50	52.2	ug/L	104	2			51	140	20
	Benzo(b)fluoranthene	50	48.8	ug/L	98	11			53	131	20
	Benzo(k)fluoranthene	50	56.1	ug/L	112	12			57	129	20
	Benzo(a)pyrene	50	55.5	ug/L	111	1			54	128	20
	Indeno(1,2,3-cd)pyrene	50	51.3	ug/L	103	4			52	134	20
	Dibenz(a,h)anthracene	50	50.8	ug/L	102	4			51	134	20
	Benzo(g,h,i)perylene	50	45.8	ug/L	92	2			50	134	20
	1,2,4,5-Tetrachlorobenzene	50	50.2	ug/L	100	2			35	121	20
	1,4-Dioxane	50	40.5	ug/L	81	2			70	130	20
	2,3,4,6-Tetrachlorophenol	50	53.4	ug/L	107	3			50	128	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166117BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141217.D Lab Sample ID: PB166117BL

Instrument ID: BNA_F Date Extracted: 01/17/2025

Matrix: (soil/water) Water Date Analyzed: 01/20/2025

Level: (low/med) LOW Time Analyzed: 12:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166117BS	PB166117BS	BF141218.D	01/20/2025
PB166117BSD	PB166117BSD	BF141219.D	01/20/2025
RW10A-20250116	Q1122-01	BF141221.D	01/20/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141108.D DFTPP Injection Date: 01/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49.8
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	6.6
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.4) 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
SSTDICC2.5	SSTDICC2.5	BF141109.D	01/10/2025	11:58
SSTDICC005	SSTDICC005	BF141110.D	01/10/2025	12:25
SSTDICC010	SSTDICC010	BF141111.D	01/10/2025	13:17
SSTDICC020	SSTDICC020	BF141112.D	01/10/2025	14:10
SSTDICCC040	SSTDICCC040	BF141113.D	01/10/2025	14:36
SSTDICC050	SSTDICC050	BF141117.D	01/10/2025	16:53
SSTDICC060	SSTDICC060	BF141118.D	01/10/2025	17:19
SSTDICC080	SSTDICC080	BF141119.D	01/10/2025	17:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141211.D DFTPP Injection Date: 01/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	34.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.0
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	6.4
275	10.0 - 60.0% of mass 198	30.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	17.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141212.D	01/20/2025	10:37
PB166117BL	PB166117BL	BF141217.D	01/20/2025	12:49
PB166117BS	PB166117BS	BF141218.D	01/20/2025	13:15
PB166117BSD	PB166117BSD	BF141219.D	01/20/2025	13:41
RW10A-20250116	Q1122-01	BF141221.D	01/20/2025	14:39
SSTDCCC040EC	SSTDCCC040	BF141226.D	01/20/2025	16:58

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/20/2025

Lab File ID: BF141212.D Time Analyzed: 10:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	179826	6.81	695851	8.09	379338	9.85
	UPPER LIMIT	359652	7.31	1391700	8.592	758676	10.351
	LOWER LIMIT	89913	6.31	347926	7.592	189669	9.351
	EPA SAMPLE NO.						
01	PB166117BL	159319	6.81	644023	8.09	342991	9.85
02	PB166117BS	161782	6.81	655900	8.09	349277	9.85
03	PB166117BSD	161581	6.81	633827	8.09	339384	9.85
04	RW10A-20250116	158020	6.81	629982	8.09	340789	9.85

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.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/20/2025

Lab File ID: BF141212.D Time Analyzed: 10:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	651777	11.333	435133	13.974	378255	15.439
	UPPER LIMIT	1303550	11.833	870266	14.474	756510	15.939
	LOWER LIMIT	325889	10.833	217567	13.474	189128	14.939
	EPA SAMPLE NO.						
01	PB166117BL	588711	11.33	419427	13.97	332363	15.43
02	PB166117BS	596700	11.33	391687	13.97	341954	15.43
03	PB166117BSD	582564	11.33	369711	13.97	327689	15.43
04	RW10A-20250116	587345	11.33	416765	13.97	333314	15.43

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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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.00	U	4.00	8.00	10.0	ug/L
108-95-2	Phenol	4.00	U	0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.71	4.00	5.00	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	4.00	U	1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	4.00	U	1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	1.30	4.00	5.00	ug/L
78-59-1	Isophorone	4.00	U	1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	4.00	U	2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	4.00	U	1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	4.00	U	1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	8.00	U	1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	8.00	U	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.93	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	4.00	U	0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	8.00	U	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	8.00	U	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	4.00	U	0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	4.00	U	1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.98	4.00	5.00	ug/L
86-73-7	Fluorene	4.00	U	0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	4.00	U	2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.00	U	3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	4.00	U	1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	4.00	U	0.89	4.00	5.00	ug/L
120-12-7	Anthracene	4.00	U	1.10	4.00	5.00	ug/L
86-74-8	Carbazole	4.00	U	1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	4.00	U	1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	4.00	U	1.30	4.00	5.00	ug/L
129-00-0	Pyrene	4.00	U	1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	8.00	U	1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.94	4.00	5.00	ug/L
218-01-9	Chrysene	4.00	U	0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.00	U	1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	8.00	U	2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	1.10	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	144		19 - 119		96%	SPK: 150
13127-88-3	Phenol-d6	141		10 - 130		94%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		44 - 120		98%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.6		44 - 119		99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	162		43 - 140		108%	SPK: 150
1718-51-0	Terphenyl-d14	92.3		50 - 134		92%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.81				
1146-65-2	Naphthalene-d8	644000	8.092				
15067-26-2	Acenaphthene-d10	343000	9.845				
1517-22-2	Phenanthrene-d10	589000	11.328				
1719-03-5	Chrysene-d12	419000	13.969				
1520-96-3	Perylene-d12	332000	15.433				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	3.80	J			2.25	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.70	A			5.04	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.30	J	4.00	8.00	10.0	ug/L
108-95-2	Phenol	48.5		0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	49.2		1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	51.1		0.71	4.00	5.00	ug/L
95-48-7	2-Methylphenol	50.7		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	47.1		1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	47.8		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	48.4		1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.2		1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	48.5		1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	45.7		1.30	4.00	5.00	ug/L
78-59-1	Isophorone	49.4		1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	51.8		2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	58.3		1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.3		0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	47.4		1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.2		1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.2		1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	47.5		1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	49.8		0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.5		1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.3		0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.2		1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.8		0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.0		0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	49.2		1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	50.0		0.93	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.3		1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.7		1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	30.0		1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	55.1		0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	48.8		0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	51.6		1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	49.5		1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.0		0.98	4.00	5.00	ug/L
86-73-7	Fluorene	49.0		0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.6		2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	60.4		3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.4		0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.9		0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	51.4		1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	64.3		1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	51.6		0.89	4.00	5.00	ug/L
120-12-7	Anthracene	53.6		1.10	4.00	5.00	ug/L
86-74-8	Carbazole	51.3		1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	52.2		1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	53.3		1.30	4.00	5.00	ug/L
129-00-0	Pyrene	46.0		1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.8		2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	47.4		0.94	4.00	5.00	ug/L
218-01-9	Chrysene	49.7		0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	54.2		1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	53.3		2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.7		1.10	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	49.8		1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.2		1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.4		1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.8		1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.9		1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.3		1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	41.3		1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	51.8		0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	136		19 - 119		91%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 130		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.7		44 - 120		95%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		44 - 119		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		43 - 140		105%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		50 - 134		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.81				
1146-65-2	Naphthalene-d8	656000	8.092				
15067-26-2	Acenaphthene-d10	349000	9.845				
1517-22-2	Phenanthrene-d10	597000	11.333				
1719-03-5	Chrysene-d12	392000	13.974				
1520-96-3	Perylene-d12	342000	15.427				

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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.20	J	4.00	8.00	10.0	ug/L
108-95-2	Phenol	47.7		0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	48.2		1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	51.1		0.71	4.00	5.00	ug/L
95-48-7	2-Methylphenol	50.5		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.7		1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	48.3		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.8		1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	48.4		1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	47.8		1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		1.30	4.00	5.00	ug/L
78-59-1	Isophorone	50.4		1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	53.3		2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	59.3		1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.9		1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.9		0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	48.1		1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	16.8		1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	48.5		1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	50.8		1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	50.9		0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	49.6		1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.5		0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.4		1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.9		0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.6		0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	49.5		1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	50.3		0.93	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	52.1		1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.7		1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	29.4		1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	55.9		0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	49.6		0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	51.7		1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	49.8		1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.4		0.98	4.00	5.00	ug/L
86-73-7	Fluorene	49.3		0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	51.2		2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	60.8		3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.2		0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	51.2		0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	51.6		1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	63.9		1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	51.6		0.89	4.00	5.00	ug/L
120-12-7	Anthracene	54.1		1.10	4.00	5.00	ug/L
86-74-8	Carbazole	51.7		1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	53.3		1.30	4.00	5.00	ug/L
129-00-0	Pyrene	48.0		1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.8		2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.7		0.94	4.00	5.00	ug/L
218-01-9	Chrysene	49.8		0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	55.1		1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	52.2		2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.8		1.10	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	56.1		1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.5		1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.3		1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.8		1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.8		1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.2		1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	40.5		1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.4		0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	134		19 - 119		90%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 130		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.2		44 - 120		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.2		44 - 119		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	160		43 - 140		106%	SPK: 150
1718-51-0	Terphenyl-d14	99.3		50 - 134		99%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.81				
1146-65-2	Naphthalene-d8	634000	8.092				
15067-26-2	Acenaphthene-d10	339000	9.845				
1517-22-2	Phenanthrene-d10	583000	11.333				
1719-03-5	Chrysene-d12	370000	13.974				
1520-96-3	Perylene-d12	328000	15.427				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141109.D 5 =BF141110.D 10 =BF141111.D 20 =BF141112.D 40 =BF141113.D 50 =BF141117.D 60 =BF141118.D 80 =BF1411
19.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.616	0.596	0.598	0.563	0.573	0.564	0.525	0.577	5.24
3)		Pyridine		1.579	1.520	1.486	1.360	1.364	1.346	1.242	1.414	8.34
4)		n-Nitrosodimet...		0.716	0.715	0.709	0.678	0.688	0.688	0.644	0.691	3.71
5)	S	2-Fluorophenol		1.453	1.400	1.378	1.248	1.236	1.227	1.121	1.295	9.11
6)		Aniline		1.656	1.583	1.561	1.424	1.385	1.360	1.222	1.456	10.39
7)	S	Phenol-d6		1.834	1.773	1.736	1.566	1.569	1.547	1.454	1.640	8.56
8)		2-Chlorophenol		1.561	1.476	1.458	1.345	1.338	1.321	1.225	1.389	8.20
9)		Benzaldehyde		1.215	1.139	1.040	0.849	0.782	0.771		0.966	19.81
10)	C	Phenol		1.943	1.902	1.861	1.701	1.665	1.668	1.548	1.756	8.38
11)		bis(2-Chloroet...		1.445	1.372	1.363	1.256	1.279	1.264	1.178	1.308	6.86
12)		1,3-Dichlorobe...		1.714	1.662	1.648	1.476	1.506	1.466	1.372	1.549	8.14
13)	C	1,4-Dichlorobe...		1.766	1.653	1.668	1.495	1.495	1.480	1.370	1.561	8.81
14)		1,2-Dichlorobe...		1.670	1.579	1.572	1.382	1.388	1.363	1.239	1.456	10.50
15)		Benzyl Alcohol		1.291	1.240	1.244	1.158	1.164	1.144	1.048	1.184	6.85
16)		2,2'-oxybis(1-...		2.046	1.913	1.939	1.766	1.746	1.730	1.640	1.826	7.82
17)		2-Methylphenol		1.209	1.175	1.182	1.088	1.091	1.077	1.027	1.121	6.00
18)		Hexachloroethane		0.610	0.591	0.595	0.548	0.551	0.550	0.507	0.565	6.35
19)	P	n-Nitroso-di-n...	1.062	1.068	1.011	1.009	0.906	0.915	0.902	0.854	0.966	8.40
20)		3+4-Methylphenols		1.631	1.529	1.527	1.375	1.342	1.319	1.180	1.415	10.93
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.516	0.507	0.445	0.455	0.449	0.417	0.475	9.43
23)	S	Nitrobenzene-d5		0.400	0.390	0.394	0.365	0.370	0.372	0.349	0.377	4.82
24)		Nitrobenzene		0.419	0.410	0.411	0.377	0.384	0.388	0.364	0.393	5.20
25)		Isophorone		0.692	0.668	0.674	0.617	0.629	0.628	0.605	0.645	5.09
26)	C	2-Nitrophenol		0.161	0.173	0.190	0.178	0.184	0.187	0.179	0.179	5.30
27)		2,4-Dimethylph...		0.252	0.244	0.250	0.236	0.239	0.238	0.229	0.241	3.27
28)		bis(2-Chloroet...		0.435	0.419	0.430	0.387	0.393	0.393	0.377	0.405	5.61
29)	C	2,4-Dichloroph...		0.296	0.296	0.300	0.277	0.286	0.284	0.266	0.287	4.31
30)		1,2,4-Trichlor...		0.356	0.344	0.348	0.314	0.317	0.316	0.299	0.328	6.49
31)		Naphthalene		1.178	1.126	1.131	0.998	1.023	0.997	0.929	1.055	8.60
32)		Benzoic acid		0.182	0.211	0.231	0.238	0.251	0.258	0.250	0.231	11.68
33)		4-Chloroaniline		0.397	0.390	0.386	0.345	0.349	0.355	0.331	0.365	7.09
34)	C	Hexachlorobuta...		0.213	0.207	0.208	0.188	0.194	0.191	0.180	0.197	6.17
35)		Caprolactam		0.096	0.092	0.099	0.091	0.094	0.094	0.091	0.094	3.00
36)	C	4-Chloro-3-met...		0.331	0.322	0.327	0.302	0.313	0.307	0.293	0.313	4.39
37)		2-Methylnaphth...		0.751	0.719	0.710	0.638	0.654	0.637	0.595	0.672	8.30
38)		1-Methylnaphth...		0.747	0.712	0.710	0.625	0.635	0.627	0.581	0.662	9.11

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.632	0.601	0.604	0.554	0.552	0.554	0.520	0.574	6.83
41)	P	Hexachlorocycl...	0.170	0.181	0.201	0.200	0.189	0.191	0.182	0.188	5.74
42)	S	2,4,6-Tribromo...	0.233	0.233	0.235	0.219	0.230	0.226	0.220	0.228	2.96
43)	C	2,4,6-Trichlor...	0.399	0.384	0.412	0.380	0.382	0.377	0.377	0.387	3.37
44)		2,4,5-Trichlor...	0.429	0.419	0.418	0.401	0.411	0.407	0.377	0.409	4.07
45)	S	2-Fluorobiphenyl	1.582	1.459	1.408	1.225	1.224	1.176	1.094	1.310	13.42
46)		1,1'-Biphenyl	1.761	1.671	1.654	1.490	1.491	1.452	1.354	1.553	9.28
47)		2-Chloronaphth...	1.345	1.288	1.273	1.164	1.174	1.145	1.079	1.210	7.78
48)		2-Nitroaniline	0.360	0.358	0.365	0.351	0.365	0.365	0.347	0.359	2.04
49)		Acenaphthylene	1.915	1.820	1.830	1.660	1.678	1.654	1.540	1.728	7.54
50)		Dimethylphthalate	1.447	1.406	1.404	1.299	1.318	1.292	1.232	1.343	5.76
51)		2,6-Dinitrotol...	0.308	0.317	0.328	0.312	0.315	0.312	0.294	0.312	3.27
52)	C	Acenaphthene	1.317	1.267	1.274	1.165	1.185	1.160	1.086	1.208	6.69
53)		3-Nitroaniline	0.321	0.324	0.333	0.316	0.320	0.312	0.295	0.317	3.73
54)	P	2,4-Dinitrophenol		0.097	0.133	0.155	0.168	0.167	0.171	0.148	19.39
55)		Dibenzofuran	1.866	1.736	1.738	1.586	1.585	1.546	1.440	1.642	8.77
56)	P	4-Nitrophenol	0.224	0.241	0.255	0.250	0.264	0.258	0.248	0.248	5.29
57)		2,4-Dinitrotol...	0.372	0.401	0.423	0.395	0.424	0.411	0.390	0.402	4.69
58)		Fluorene	1.488	1.403	1.359	1.197	1.213	1.182	1.091	1.276	11.13
59)		2,3,4,6-Tetrac...	0.353	0.358	0.354	0.332	0.333	0.337	0.313	0.340	4.72
60)		Diethylphthalate	1.416	1.397	1.378	1.253	1.289	1.257	1.186	1.311	6.64
61)		4-Chlorophenyl...	0.709	0.672	0.663	0.594	0.593	0.584	0.540	0.622	9.65
62)		4-Nitroaniline	0.314	0.312	0.315	0.300	0.323	0.315	0.295	0.311	3.12
63)		Azobenzene	1.430	1.363	1.353	1.245	1.264	1.233	1.166	1.293	7.05
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.077	0.095	0.120	0.129	0.130	0.132	0.128	0.116	18.43
66)	c	n-Nitrosodiphe...	0.706	0.677	0.683	0.651	0.603	0.622	0.574	0.645	7.39
67)		4-Bromophenyl-...	0.241	0.237	0.238	0.232	0.220	0.229	0.215	0.230	4.20
68)		Hexachlorobenzene	0.273	0.263	0.266	0.257	0.244	0.252	0.239	0.256	4.81
69)		Atrazine	0.213	0.201	0.170	0.141	0.184	0.169	0.138	0.174	16.26
70)	C	Pentachlorophenol	0.142	0.162	0.171	0.173	0.169	0.171	0.160	0.164	6.59
71)		Phenanthrene	1.218	1.152	1.122	1.064	1.014	1.012	0.935	1.074	8.98
72)		Anthracene	1.162	1.111	1.095	1.042	0.994	0.997	0.908	1.044	8.22
73)		Carbazole	1.052	1.025	1.011	0.944	0.935	0.901	0.833	0.957	8.09
74)		Di-n-butylphth...	1.186	1.177	1.139	1.087	1.079	1.043	0.958	1.096	7.33
75)	C	Fluoranthene	1.211	1.188	1.104	1.037	1.051	0.987	0.923	1.071	9.70
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.380	0.309	0.310	0.409	0.340	0.418	0.430	0.371	13.83
78)		Pyrene	1.952	1.977	2.081	1.848	1.839	1.955	1.720	1.910	6.14
79)	S	Terphenyl-d14	1.444	1.424	1.483	1.272	1.280	1.352	1.164	1.346	8.44
80)		Butylbenzylpht...	0.583	0.629	0.663	0.614	0.677	0.669	0.623	0.637	5.39
81)		Benzo(a)anthra...	1.473	1.420	1.427	1.245	1.329	1.367	1.266	1.361	6.28
82)		3,3'-Dichlorob...	0.434	0.422	0.444	0.418	0.426	0.441	0.448	0.433	2.72
83)		Chrysene	1.382	1.316	1.336	1.207	1.237	1.238	1.200	1.274	5.54
84)		Bis(2-ethylhex...	0.734	0.768	0.807	0.726	0.819	0.783	0.712	0.764	5.41
85)	c	Di-n-octyl pht...	0.950	1.039	1.169	1.151	1.235	1.244	1.291	1.154	10.51

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.472	1.420	1.558	1.472	1.421	1.539	1.374	1.465	4.55
88)		Benzo(b)fluora...	1.461	1.415	1.290	1.201	1.315	1.191	1.156	1.290	9.03
89)		Benzo(k)fluora...	1.128	1.102	1.141	1.043	1.038	1.103	1.074	1.090	3.67
90)	C	Benzo(a)pyrene	1.103	1.090	1.095	1.039	1.048	1.067	1.007	1.064	3.29
91)		Dibenzo(a,h)an...	1.174	1.178	1.262	1.197	1.150	1.247	1.088	1.185	4.95
92)		Benzo(g,h,i)pe...	1.256	1.221	1.347	1.263	1.195	1.296	1.051	1.233	7.65

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 10:37

Lab File ID: BF141212.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.234		-4.7	
Benzaldehyde	0.966	1.104		14.3	
Phenol-d6	1.640	1.572		-4.1	
Phenol	1.756	1.659		-5.5	20.0
bis(2-Chloroethyl)ether	1.308	1.256		-4.0	
2-Chlorophenol	1.389	1.356		-2.4	
2-Methylphenol	1.121	1.090		-2.8	
2,2-oxybis(1-Chloropropane)	1.826	1.644		-10.0	
Acetophenone	0.475	0.460		-3.2	
3+4-Methylphenols	1.415	1.363		-3.7	
n-Nitroso-di-n-propylamine	0.966	0.910	0.050	-5.8	
Nitrobenzene-d5	0.377	0.372		-1.3	
Hexachloroethane	0.565	0.552		-2.3	
Nitrobenzene	0.393	0.384		-2.3	
Isophorone	0.645	0.635		-1.5	
2-Nitrophenol	0.179	0.188		5.0	20.0
2,4-Dimethylphenol	0.241	0.238		-1.2	
bis(2-Chloroethoxy)methane	0.405	0.395		-2.5	
2,4-Dichlorophenol	0.287	0.291		1.4	20.0
Naphthalene	1.055	1.037		-1.7	
4-Chloroaniline	0.365	0.318		-12.9	
Hexachlorobutadiene	0.197	0.198		0.5	20.0
Caprolactam	0.094	0.094		0.0	
4-Chloro-3-methylphenol	0.313	0.319		1.9	20.0
2-Methylnaphthalene	0.672	0.666		-0.9	
Hexachlorocyclopentadiene	0.188	0.196	0.050	4.3	
2,4,6-Trichlorophenol	0.387	0.400		3.4	20.0
2-Fluorobiphenyl	1.310	1.265		-3.4	
2,4,5-Trichlorophenol	0.409	0.408		-0.2	
1,1-Biphenyl	1.553	1.513		-2.6	
2-Chloronaphthalene	1.210	1.184		-2.1	
2-Nitroaniline	0.359	0.356		-0.8	
Dimethylphthalate	1.343	1.332		-0.8	
Acenaphthylene	1.728	1.693		-2.0	
2,6-Dinitrotoluene	0.312	0.314		0.6	
3-Nitroaniline	0.317	0.321		1.3	
Acenaphthene	1.208	1.205		-0.2	20.0
2,4-Dinitrophenol	0.148	0.172	0.050	16.2	
4-Nitrophenol	0.248	0.262	0.050	5.6	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 10:37

Lab File ID: BF141212.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.608		-2.1	
2,4-Dinitrotoluene	0.402	0.422		5.0	
Diethylphthalate	1.311	1.307		-0.3	
4-Chlorophenyl-phenylether	0.622	0.621		-0.2	
Fluorene	1.276	1.259		-1.3	
4-Nitroaniline	0.311	0.329		5.8	
4,6-Dinitro-2-methylphenol	0.116	0.140		20.7	
n-Nitrosodiphenylamine	0.645	0.637		-1.2	20.0
2,4,6-Tribromophenol	0.228	0.244		7.0	
4-Bromophenyl-phenylether	0.230	0.236		2.6	
Hexachlorobenzene	0.256	0.269		5.1	
Atrazine	0.174	0.199		14.4	
Pentachlorophenol	0.164	0.177		7.9	20.0
Phenanthrene	1.074	1.075		0.1	
Anthracene	1.044	1.064		1.9	
Carbazole	0.957	0.988		3.2	
Di-n-butylphthalate	1.096	1.156		5.5	
Fluoranthene	1.071	1.155		7.8	20.0
Pyrene	1.910	1.736		-9.1	
Terphenyl-d14	1.346	1.246		-7.4	
Butylbenzylphthalate	0.637	0.661		3.8	
3,3-Dichlorobenzidine	0.433	0.378		-12.7	
Benzo(a)anthracene	1.361	1.303		-4.3	
Chrysene	1.274	1.166		-8.5	
Bis(2-ethylhexyl)phthalate	0.764	0.793		3.8	
Di-n-octyl phthalate	1.154	1.147		-0.6	20.0
Benzo(b)fluoranthene	1.290	1.336		3.6	
Benzo(k)fluoranthene	1.090	1.084		-0.6	
Benzo(a)pyrene	1.064	1.069		0.5	20.0
Indeno(1,2,3-cd)pyrene	1.465	1.369		-6.6	
Dibenzo(a,h)anthracene	1.185	1.117		-5.7	
Benzo(g,h,i)perylene	1.233	1.134		-8.0	
1,2,4,5-Tetrachlorobenzene	0.574	0.569		-0.9	
1,4-Dioxane	0.577	0.544		-5.7	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.349		2.6	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 16:58

Lab File ID: BF141226.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.230		-5.0	50.0
Benzaldehyde	0.966	1.176		21.7	50.0
Phenol-d6	1.640	1.569		-4.3	50.0
Phenol	1.756	1.658		-5.6	50.0
bis(2-Chloroethyl)ether	1.308	1.274		-2.6	50.0
2-Chlorophenol	1.389	1.351		-2.7	50.0
2-Methylphenol	1.121	1.085		-3.2	50.0
2,2-oxybis(1-Chloropropane)	1.826	1.656		-9.3	50.0
Acetophenone	0.475	0.458		-3.6	50.0
3+4-Methylphenols	1.415	1.331		-5.9	50.0
n-Nitroso-di-n-propylamine	0.966	0.912	0.050	-5.6	50.0
Nitrobenzene-d5	0.377	0.373		-1.1	50.0
Hexachloroethane	0.565	0.564		-0.2	50.0
Nitrobenzene	0.393	0.384		-2.3	50.0
Isophorone	0.645	0.633		-1.9	50.0
2-Nitrophenol	0.179	0.191		6.7	50.0
2,4-Dimethylphenol	0.241	0.235		-2.5	50.0
bis(2-Chloroethoxy)methane	0.405	0.405		0.0	50.0
2,4-Dichlorophenol	0.287	0.296		3.1	50.0
Naphthalene	1.055	1.038		-1.6	50.0
4-Chloroaniline	0.365	0.310		-15.1	50.0
Hexachlorobutadiene	0.197	0.203		3.0	50.0
Caprolactam	0.094	0.092		-2.1	50.0
4-Chloro-3-methylphenol	0.313	0.312		-0.3	50.0
2-Methylnaphthalene	0.672	0.666		-0.9	50.0
Hexachlorocyclopentadiene	0.188	0.194	0.050	3.2	50.0
2,4,6-Trichlorophenol	0.387	0.389		0.5	50.0
2-Fluorobiphenyl	1.310	1.257		-4.0	50.0
2,4,5-Trichlorophenol	0.409	0.411		0.5	50.0
1,1-Biphenyl	1.553	1.493		-3.9	50.0
2-Chloronaphthalene	1.210	1.166		-3.6	50.0
2-Nitroaniline	0.359	0.344		-4.2	50.0
Dimethylphthalate	1.343	1.304		-2.9	50.0
Acenaphthylene	1.728	1.651		-4.5	50.0
2,6-Dinitrotoluene	0.312	0.311		-0.3	50.0
3-Nitroaniline	0.317	0.298		-6.0	50.0
Acenaphthene	1.208	1.177		-2.6	50.0
2,4-Dinitrophenol	0.148	0.167	0.050	12.8	50.0
4-Nitrophenol	0.248	0.231	0.050	-6.9	50.0

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 16:58

Lab File ID: BF141226.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.570		-4.4	50.0
2,4-Dinitrotoluene	0.402	0.407		1.2	50.0
Diethylphthalate	1.311	1.270		-3.1	50.0
4-Chlorophenyl-phenylether	0.622	0.618		-0.6	50.0
Fluorene	1.276	1.219		-4.5	50.0
4-Nitroaniline	0.311	0.293		-5.8	50.0
4,6-Dinitro-2-methylphenol	0.116	0.141		21.6	50.0
n-Nitrosodiphenylamine	0.645	0.658		2.0	50.0
2,4,6-Tribromophenol	0.228	0.235		3.1	50.0
4-Bromophenyl-phenylether	0.230	0.244		6.1	50.0
Hexachlorobenzene	0.256	0.274		7.0	50.0
Atrazine	0.174	0.198		13.8	50.0
Pentachlorophenol	0.164	0.176		7.3	50.0
Phenanthrene	1.074	1.078		0.4	50.0
Anthracene	1.044	1.048		0.4	50.0
Carbazole	0.957	0.937		-2.1	50.0
Di-n-butylphthalate	1.096	1.144		4.4	50.0
Fluoranthene	1.071	1.059		-1.1	50.0
Pyrene	1.910	1.911		0.1	50.0
Terphenyl-d14	1.346	1.362		1.2	50.0
Butylbenzylphthalate	0.637	0.666		4.6	50.0
3,3-Dichlorobenzidine	0.433	0.428		-1.2	50.0
Benzo(a)anthracene	1.361	1.289		-5.3	50.0
Chrysene	1.274	1.233		-3.2	50.0
Bis(2-ethylhexyl)phthalate	0.764	0.785		2.7	50.0
Di-n-octyl phthalate	1.154	1.216		5.4	50.0
Benzo(b)fluoranthene	1.290	1.184		-8.2	50.0
Benzo(k)fluoranthene	1.090	1.058		-2.9	50.0
Benzo(a)pyrene	1.064	1.040		-2.3	50.0
Indeno(1,2,3-cd)pyrene	1.465	1.455		-0.7	50.0
Dibenzo(a,h)anthracene	1.185	1.189		0.3	50.0
Benzo(g,h,i)perylene	1.233	1.230		-0.2	50.0
1,2,4,5-Tetrachlorobenzene	0.574	0.565		-1.6	50.0
1,4-Dioxane	0.577	0.525		-9.0	50.0
2,3,4,6-Tetrachlorophenol	0.340	0.331		-2.6	50.0

All other compounds must meet a minimum RRF of 0.010.