

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG No.: BM051324

Instrument ID: BNA_M Calibration Date/Time: 5/13/2024 1:19:17

Lab File ID: BM045720.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.661	0.637		-3.631	
Pyridine	1.255	1.172		-6.614	
2-Fluorophenol	1.165	1.116		-4.206	
Benzaldehyde	1.017	0.983		-3.343	
Aniline	1.172	1.124		-4.096	
Phenol-d6	1.421	1.376		-3.167	
Phenol	1.325	1.260		-4.906	20.0
bis(2-Chloroethyl) ether	1.180	1.079		-8.559	
2-Chlorophenol	1.076	1.038		-3.532	
1,2-Dichlorobenzene	1.339	1.288		-3.809	
1,3-Dichlorobenzene	1.458	1.429		-1.989	
1,4-Dichlorobenzene	1.500	1.479		-1.4	20.0
Benzyl Alcohol	1.311	1.342		2.365	
2-Methylphenol	0.947	0.919		-2.957	
2,2-oxybis(1-Chloropropane)	1.163	1.086		-6.621	
Acetophenone	0.451	0.409		-9.313	
3+4-Methylphenols	1.338	1.327		-0.822	
n-Nitroso-di-n-propylamine	1.068	1.094	0.050	2.434	
Nitrobenzene-d5	0.435	0.405		-6.897	
Hexachloroethane	0.646	0.647		0.155	
Nitrobenzene	0.421	0.386		-8.314	
Isophorone	0.630	0.577		-8.413	
2-Nitrophenol	0.143	0.134		-6.294	20.0
2,4-Dimethylphenol	0.180	0.163		-9.444	
bis(2-Chloroethoxy) methane	0.364	0.338		-7.143	
2,4-Dichlorophenol	0.265	0.254		-4.151	20.0
1,2,4-Trichlorobenzene	0.320	0.306		-4.375	
Benzoic acid	0.177	0.165		-6.78	
Naphthalene	0.990	0.955		-3.535	
4-Chloroaniline	0.355	0.351		-1.127	
Hexachlorobutadiene	0.204	0.195		-4.412	20.0
Caprolactam	0.086	0.083		-3.488	
4-Chloro-3-methylphenol	0.325	0.333		2.462	20.0
2-Methylnaphthalene	0.724	0.707		-2.348	
Hexachlorocyclopentadiene	0.233	0.223	0.050	-4.292	
2,4,6-Trichlorophenol	0.348	0.342		-1.724	20.0
2-Fluorobiphenyl	1.451	1.389		-4.273	
2,4,5-Trichlorophenol	0.391	0.383		-2.046	
1,1-Biphenyl	1.437	1.365		-5.01	

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Instrument ID: BNA_M Calibration Date/Time: 5/13/2024 1:19:17

Lab File ID: BM045720.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.111	1.055		-5.041	
2-Nitroaniline	0.365	0.366		0.274	
Dimethylphthalate	1.458	1.394		-4.39	
Acenaphthylene	1.727	1.684		-2.49	
2,6-Dinitrotoluene	0.315	0.309		-1.905	
3-Nitroaniline	0.310	0.308		-0.645	
Acenaphthene	1.071	1.059		-1.12	20.0
2,4-Dinitrophenol	0.173	0.174	0.050	0.578	
4-Nitrophenol	0.267	0.275	0.050	2.996	
Dibenzofuran	1.777	1.746		-1.745	
2,4-Dinitrotoluene	0.478	0.479		0.209	
Diethylphthalate	1.657	1.618		-2.354	
4-Chlorophenyl-phenylether	0.774	0.763		-1.421	
Fluorene	1.597	1.576		-1.315	
4-Nitroaniline	0.338	0.345		2.071	
4,6-Dinitro-2-methylphenol	0.106	0.110		3.774	
n-Nitrosodiphenylamine	0.519	0.518		-0.193	20.0
Azobenzene	1.626	1.602		-1.476	
2,4,6-Tribromophenol	0.273	0.274		0.366	
4-Bromophenyl-phenylether	0.198	0.192		-3.03	
Hexachlorobenzene	0.238	0.231		-2.941	
Atrazine	0.164	0.167		1.829	
Pentachlorophenol	0.151	0.155		2.649	20.0
Phenanthrene	1.008	0.998		-0.992	
Anthracene	0.971	0.974		0.309	
Carbazole	0.942	0.946		0.425	
Di-n-butylphthalate	1.225	1.231		0.49	
Fluoranthene	1.227	1.221		-0.489	20.0
Benzidine	0.436	0.473		8.486	
Pyrene	2.040	2.065		1.225	
Terphenyl-d14	2.049	2.027		-1.074	
Butylbenzylphthalate	0.837	0.883		5.496	
3,3-Dichlorobenzidine	0.510	0.568		11.373	
Benzo(a)anthracene	1.369	1.364		-0.365	
Chrysene	1.255	1.235		-1.594	
Bis(2-ethylhexyl)phthalate	0.982	1.128		14.868	
Di-n-octyl phthalate	1.380	1.282		-7.101	20.0
Benzo(b)fluoranthene	1.293	1.287		-0.464	
Benzo(k)fluoranthene	1.184	1.184		0.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG No.: BM051324
 Instrument ID: BNA_M Calibration Date/Time: 5/13/2024 1:19:17
 Lab File ID: BM045720.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTDICCC040 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.121	1.063		-5.174	20.0
Indeno(1,2,3-cd)pyrene	1.259	1.306		3.733	
Dibenzo(a,h)anthracene	1.060	1.092		3.019	
Benzo(g,h,i)perylene	1.091	1.108		1.558	
1,2,4,5-Tetrachlorobenzene	0.531	0.504		-5.085	
1,4-Dioxane	0.318	0.298		-6.289	20.0
2,3,4,6-Tetrachlorophenol	0.359	0.357		-0.557	
1-Methylnaphthalene	0.713	0.696		-2.384	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM051324			SDG No.:	BM051324		
Lab Sample ID:	SSTDICV040			Matrix:	Water		
Analytical Method:	8270E			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	uL	
Soil Aliquot Vol:			uL	Test:			
Extraction Type :		Decanted :		Level :	LOW		
Injection Volume :		GPC Factor :		GPC Cleanup :		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045724.D	1		5/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	42800		1000	8000	10000	ug/L
110-86-1	Pyridine	42200		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	38900		4000	8000	10000	ug/L
62-53-3	Aniline	42200		1600	4000	5000	ug/L
108-95-2	Phenol	41400		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	40100		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	41400		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39800		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	39500		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39600		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40200		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	41300		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40200		1400	4000	5000	ug/L
98-86-2	Acetophenone	40000		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	41400		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41600		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40000		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	39200		1300	4000	5000	ug/L
78-59-1	Isophorone	40300		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	42400		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	41100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39900		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40600		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39500		1100	4000	5000	ug/L
65-85-0	Benzoic acid	42600		5500	8000	10000	ug/L
91-20-3	Naphthalene	39600		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	40700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	39600		1300	4000	5000	ug/L

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBM051324	SDG No.:	BM051324
Lab Sample ID:	SSTDICV040	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045724.D	1		5/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	40200		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	41800		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39900		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	36700		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	38600		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39200		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	37900		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	38100		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	40100		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	38800		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39800		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	39800		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	40700		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39300		810	4000	5000	ug/L
Total PAH	Total PAH	625500		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	38000		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	42200		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39700		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	41000		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	80800		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39500		980	4000	5000	ug/L
86-73-7	Fluorene	39600		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	40900		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	37900		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	39300		890	4000	5000	ug/L
103-33-3	Azobenzene	39300		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	38500		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	38400		1100	4000	5000	ug/L
1912-24-9	Atrazine	39900		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM051324			SDG No.:	BM051324		
Lab Sample ID:	SSTDICV040			Matrix:	Water		
Analytical Method:	8270E			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	uL	
Soil Aliquot Vol:			uL	Test:			
Extraction Type :				Decanted :			
Injection Volume :				Level :	LOW		
				GPC Factor :			
				GPC Cleanup :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045724.D	1		5/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	40900		1900	8000	10000	ug/L
85-01-8	Phenanthrene	39400		890	4000	5000	ug/L
120-12-7	Anthracene	39700		1100	4000	5000	ug/L
86-74-8	Carbazole	40200		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	39800		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40800		1300	4000	5000	ug/L
92-87-5	Benzidine	42900		4100	8000	10000	ug/L
129-00-0	Pyrene	36300		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	35000		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	43500		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39500		940	4000	5000	ug/L
218-01-9	Chrysene	39400		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	37900		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	39000		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	41100		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	40300		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39200		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	36500		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	35600		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	39400		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37700		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	45200		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40900		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	39800		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	82211	*	10-139		54807	SPK: -150
13127-88-3	Phenol-d6	83378	*	10-134		55585	SPK: -150
4165-60-0	Nitrobenzene-d5	79623	*	49-133		79623	SPK: -100
321-60-8	2-Fluorobiphenyl	76253	*	52-132		76253	SPK: -100

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBM051324	SDG No.:	BM051324
Lab Sample ID:	SSTDICV040	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045724.D	1		5/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	82417	*	32-145		54945	SPK: -150
1718-51-0	Terphenyl-d14	71187	*	36-145		71187	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	97459	7.581				
1146-65-2	Naphthalene-d8	443718	10.351				
15067-26-2	Acenaphthene-d10	322592	14.21				
1517-22-2	Phenanthrene-d10	772238	16.957				
1719-03-5	Chrysene-d12	510522	21.174				
1520-96-3	Perylene-d12	486066	23.974				

Report of Analysis

Client:		Date Collected:	5/10/2024 12:00:00 AM
Project:		Date Received:	5/10/2024 12:00:00 AM
Client Sample ID:	PB160855BL	SDG No.:	BM051324
Lab Sample ID:	PB160855BL	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
			uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045725.D	1	5/10/2024 12:00:00 AM	5/13/2024 12:00:00 AM	PB160855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1	U	1	8	10	ug/L
110-86-1	Pyridine	1.6	U	1.6	4	5	ug/L
100-52-7	Benzaldehyde	4	U	4	8	10	ug/L
62-53-3	Aniline	1.6	U	1.6	4	5	ug/L
108-95-2	Phenol	0.93	U	0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.2	U	1.2	4	5	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.8	U	0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	1.6	U	1.6	8	10	ug/L
95-48-7	2-Methylphenol	1.1	U	1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.4	U	1.4	4	5	ug/L
98-86-2	Acetophenone	1.1	U	1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	1.2	U	1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.5	U	1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	1	U	1	4	5	ug/L
98-95-3	Nitrobenzene	1.3	U	1.3	4	5	ug/L
78-59-1	Isophorone	1.1	U	1.1	4	5	ug/L
88-75-5	2-Nitrophenol	2	U	2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	1.5	U	1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1	U	1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.1	U	1.1	4	5	ug/L
65-85-0	Benzoic acid	5.5	U	5.5	8	10	ug/L
91-20-3	Naphthalene	1	U	1	4	5	ug/L
106-47-8	4-Chloroaniline	1.3	U	1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	1.3	U	1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	5/10/2024 12:00:00 AM
Project:		Date Received:	5/10/2024 12:00:00 AM
Client Sample ID:	PB160855BL	SDG No.:	BM051324
Lab Sample ID:	PB160855BL	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045725.D	1	5/10/2024 12:00:00 AM	5/13/2024 12:00:00 AM	PB160855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1.7	U	1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	1.1	4	5	ug/L
77-47-4	Hexachlorocyclopentadiene	5	U	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	1	U	1	4	5	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	4	5	ug/L
88-74-4	2-Nitroaniline	1.4	U	1.4	4	5	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	4	5	ug/L
208-96-8	Acenaphthylene	1	U	1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	1.2	4	5	ug/L
99-09-2	3-Nitroaniline	1.4	U	1.4	4	5	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	4	5	ug/L
Total PAH	Total PAH	17.36	U	17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	6.4	U	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	2	U	2	8	10	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	2.7	U	2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
84-66-2	Diethylphthalate	1	U	1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	4	5	ug/L
86-73-7	Fluorene	0.96	U	0.96	4	5	ug/L
100-01-6	4-Nitroaniline	2	U	2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.1	U	3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	4	5	ug/L
103-33-3	Azobenzene	1.2	U	1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	1.1	U	1.1	4	5	ug/L
1912-24-9	Atrazine	1.3	U	1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	5/10/2024 12:00:00 AM
Project:		Date Received:	5/10/2024 12:00:00 AM
Client Sample ID:	PB160855BL	SDG No.:	BM051324
Lab Sample ID:	PB160855BL	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045725.D	1	5/10/2024 12:00:00 AM	5/13/2024 12:00:00 AM	PB160855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	1.9	U	1.9	8	10	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	4	5	ug/L
120-12-7	Anthracene	1.1	U	1.1	4	5	ug/L
86-74-8	Carbazole	1.2	U	1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	1.5	U	1.5	4	5	ug/L
206-44-0	Fluoranthene	1.3	U	1.3	4	5	ug/L
92-87-5	Benzidine	4.1	U	4.1	8	10	ug/L
129-00-0	Pyrene	1.1	U	1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	2.1	U	2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.3	U	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	4	5	ug/L
218-01-9	Chrysene	0.86	U	0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	U	1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	2.5	U	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	1.1	U	1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	1.2	U	1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	1.7	U	1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1	U	1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	4	5	ug/L
123-91-1	1,4-Dioxane	1.3	U	1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	154.416		10-139		103	SPK: -150
13127-88-3	Phenol-d6	148.357		10-134		99	SPK: -150
4165-60-0	Nitrobenzene-d5	99.437		49-133		99	SPK: -100
321-60-8	2-Fluorobiphenyl	98.027		52-132		98	SPK: -100

Report of Analysis

Client:		Date Collected:	5/10/2024 12:00:00 AM
Project:		Date Received:	5/10/2024 12:00:00 AM
Client Sample ID:	PB160855BL	SDG No.:	BM051324
Lab Sample ID:	PB160855BL	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM045725.D	1	5/10/2024 12:00:00 AM	5/13/2024 12:00:00 AM	PB160855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	153.465		32-145		102	SPK: -150
1718-51-0	Terphenyl-d14	77.787		36-145		78	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	82155	7.581				
1146-65-2	Naphthalene-d8	292265	10.351				
15067-26-2	Acenaphthene-d10	149758	14.21				
1517-22-2	Phenanthrene-d10	304470	16.957				
1719-03-5	Chrysene-d12	242042	21.168				
1520-96-3	Perylene-d12	308779	23.968				

Hit Summary Sheet SW-846

SDG No.: BM051324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBM051324								
SSTDICV040	ICVBM051324	Water	1,1-Biphenyl	37,900.000	910		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,2,4,5-Tetrachlorobenzene	37,700.000	1100		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,2,4-Trichlorobenzene	39,500.000	1100		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,2-Dichlorobenzene	39,800.000	880		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,3-Dichlorobenzene	39,500.000	800		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,4-Dichlorobenzene	39,600.000	840		5000	ug/L
SSTDICV040	ICVBM051324	Water	1,4-Dioxane	45,200.000	1300		5000	ug/L
SSTDICV040	ICVBM051324	Water	1-Methylnaphthalene	39,800.000	860		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,2-oxybis(1-Chloropropane)	40,200.000	1400		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,3,4,6-Tetrachlorophenol	40,900.000	790		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4,5-Trichlorophenol	39,200.000	1000		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4,6-Trichlorophenol	38,600.000	890		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4-Dichlorophenol	40,600.000	880		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4-Dimethylphenol	41,100.000	1500		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4-Dinitrophenol	38,000.000	6400		10000	ug/L
SSTDICV040	ICVBM051324	Water	2,4-Dinitrotoluene	41,000.000	1500		5000	ug/L
SSTDICV040	ICVBM051324	Water	2,6-Dinitrotoluene	39,800.000	1200		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Chloronaphthalene	38,100.000	970		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Chlorophenol	41,400.000	710		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Methylnaphthalene	39,900.000	1100		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Methylphenol	41,300.000	1100		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Nitroaniline	40,100.000	1400		5000	ug/L
SSTDICV040	ICVBM051324	Water	2-Nitrophenol	42,400.000	2000		5000	ug/L
SSTDICV040	ICVBM051324	Water	3+4-Methylphenols	41,400.000	1200		10000	ug/L
SSTDICV040	ICVBM051324	Water	3,3-Dichlorobenzidine	43,500.000	1300		10000	ug/L
SSTDICV040	ICVBM051324	Water	3-Nitroaniline	40,700.000	1400		5000	ug/L
SSTDICV040	ICVBM051324	Water	4,6-Dinitro-2-methylphenol	37,900.000	3100		10000	ug/L
SSTDICV040	ICVBM051324	Water	4-Bromophenyl-phenylether	38,500.000	950		5000	ug/L
SSTDICV040	ICVBM051324	Water	4-Chloro-3-methylphenol	41,800.000	840		5000	ug/L
SSTDICV040	ICVBM051324	Water	4-Chloroaniline	40,700.000	1300		5000	ug/L
SSTDICV040	ICVBM051324	Water	4-Chlorophenyl-phenylether	39,500.000	980		5000	ug/L
SSTDICV040	ICVBM051324	Water	4-Nitroaniline	40,900.000	2000		5000	ug/L
SSTDICV040	ICVBM051324	Water	4-Nitrophenol	42,200.000	2000		10000	ug/L
SSTDICV040	ICVBM051324	Water	Acenaphthene	39,300.000	810		5000	ug/L
SSTDICV040	ICVBM051324	Water	Acenaphthylene	39,800.000	1000		5000	ug/L
SSTDICV040	ICVBM051324	Water	Acetophenone	40,000.000	1100		5000	ug/L
SSTDICV040	ICVBM051324	Water	Aniline	42,200.000	1600		5000	ug/L

Hit Summary Sheet SW-846

SDG No.: BM051324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM051324	Water	Anthracene	39,700.000		1100	5000	ug/L
SSTDICV040	ICVBM051324	Water	Atrazine	39,900.000		1300	5000	ug/L
SSTDICV040	ICVBM051324	Water	Azobenzene	39,300.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzaldehyde	38,900.000		4000	10000	ug/L
SSTDICV040	ICVBM051324	Water	Benzidine	42,900.000		4100	10000	ug/L
SSTDICV040	ICVBM051324	Water	Benzo(a)anthracene	39,500.000		940	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzo(a)pyrene	39,200.000		1700	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzo(b)fluoranthene	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzo(g,h,i)perylene	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzo(k)fluoranthene	40,300.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Benzoic acid	42,600.000		5500	10000	ug/L
SSTDICV040	ICVBM051324	Water	Benzyl Alcohol	40,200.000		1600	10000	ug/L
SSTDICV040	ICVBM051324	Water	bis(2-Chloroethoxy)methane	39,900.000		1000	5000	ug/L
SSTDICV040	ICVBM051324	Water	bis(2-Chloroethyl)ether	40,100.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Bis(2-ethylhexyl)phthalate	37,900.000		1900	5000	ug/L
SSTDICV040	ICVBM051324	Water	Butylbenzylphthalate	35,000.000		2100	5000	ug/L
SSTDICV040	ICVBM051324	Water	Caprolactam	40,200.000		1700	10000	ug/L
SSTDICV040	ICVBM051324	Water	Carbazole	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Chrysene	39,400.000		860	5000	ug/L
SSTDICV040	ICVBM051324	Water	Di-n-butylphthalate	39,800.000		1500	5000	ug/L
SSTDICV040	ICVBM051324	Water	Di-n-octyl phthalate	39,000.000		2500	10000	ug/L
SSTDICV040	ICVBM051324	Water	Dibenzo(a,h)anthracene	35,600.000		1200	5000	ug/L
SSTDICV040	ICVBM051324	Water	Dibenzofuran	39,700.000		930	5000	ug/L
SSTDICV040	ICVBM051324	Water	Diethylphthalate	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBM051324	Water	Dimethylphthalate	38,800.000		930	5000	ug/L
SSTDICV040	ICVBM051324	Water	Fluoranthene	40,800.000		1300	5000	ug/L
SSTDICV040	ICVBM051324	Water	Fluorene	39,600.000		960	5000	ug/L
SSTDICV040	ICVBM051324	Water	Hexachlorobenzene	38,400.000		1100	5000	ug/L
SSTDICV040	ICVBM051324	Water	Hexachlorobutadiene	39,600.000		1300	5000	ug/L
SSTDICV040	ICVBM051324	Water	Hexachlorocyclopentadiene	36,700.000		5000	10000	ug/L
SSTDICV040	ICVBM051324	Water	Hexachloroethane	40,000.000		1000	5000	ug/L
SSTDICV040	ICVBM051324	Water	Indeno(1,2,3-cd)pyrene	36,500.000		1000	5000	ug/L
SSTDICV040	ICVBM051324	Water	Isophorone	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBM051324	Water	n-Nitroso-di-n-propylamine	41,600.000		1500	2500	ug/L
SSTDICV040	ICVBM051324	Water	n-Nitrosodimethylamine	42,800.000		1000	10000	ug/L
SSTDICV040	ICVBM051324	Water	n-Nitrosodiphenylamine	39,300.000		890	5000	ug/L
SSTDICV040	ICVBM051324	Water	Naphthalene	39,600.000		1000	5000	ug/L
SSTDICV040	ICVBM051324	Water	Nitrobenzene	39,200.000		1300	5000	ug/L
SSTDICV040	ICVBM051324	Water	Pentachlorophenol	40,900.000		1900	10000	ug/L
SSTDICV040	ICVBM051324	Water	Phenanthrene	39,400.000		890	5000	ug/L



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

Hit Summary Sheet
SW-846

SDG No.: BM051324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM051324	Water	Phenol	41,400.000		930	5000	ug/L
SSTDICV040	ICVBM051324	Water	Pyrene	36,300.000		1100	5000	ug/L
SSTDICV040	ICVBM051324	Water	Pyridine	42,200.000		1600	5000	ug/L
SSTDICV040	ICVBM051324	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	80,800.000		2700	10000	ug/L
SSTDICV040	ICVBM051324	Water	Total PAH	625,500.000		17360	80000	ug/L
Total Svoc :				3,899,300.00				
Total Concentration:				3,899,300.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG No.: BM051324
Instrument ID: _____ Calibration Date(s): 5/13/2024 : _____
Calibration Time(s): 16:38 _____

LAB FILE ID:		RRF2.5 = BM045716.D			RRF005 = BM045717.D		RRF010 = BM045718.D	
		RRF020 = BM045719.D			RRF040 = BM045720.D		RRF050 = BM045721.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.730	0.636	0.650	0.637	0.647	0.661	4.9
Pyridine		1.450	1.397	1.327	1.172	1.204	1.255	11.4
2-Fluorophenol		1.263	1.127	1.128	1.116	1.142	1.165	4.5
Benzaldehyde			1.150	1.156	0.983	0.916	1.017	12.7
Aniline		1.336	1.167	1.197	1.124	1.130	1.172	6.7
Phenol-d6		1.386	1.281	1.339	1.376	1.443	1.421	7.6
Phenol		1.376	1.222	1.275	1.260	1.301	1.325	6.2
bis(2-Chloroethyl)ether		1.351	1.178	1.156	1.079	1.137	1.180	7.1
2-Chlorophenol		1.108	0.983	1.011	1.038	1.089	1.076	6.2
1,2-Dichlorobenzene		1.412	1.282	1.347	1.288	1.307	1.339	3.6
1,3-Dichlorobenzene		1.540	1.394	1.471	1.429	1.439	1.458	3.1
1,4-Dichlorobenzene		1.546	1.421	1.509	1.479	1.491	1.500	2.8
Benzyl Alcohol		1.217	1.222	1.280	1.342	1.325	1.311	5.7
2-Methylphenol		0.915	0.868	0.912	0.919	0.978	0.947	6.1
2,2-oxybis(1-Chloropropane)		1.293	1.165	1.159	1.086	1.119	1.163	5.6
Acetophenone		0.493	0.425	0.416	0.409	0.441	0.451	8.5
3+4-Methylphenols		1.237	1.176	1.242	1.327	1.380	1.338	9.8
n-Nitroso-di-n-propylamine	0.918	0.977	0.939	1.044	1.094	1.134	1.068	11.2
Nitrobenzene-d5		0.475	0.426	0.437	0.405	0.419	0.435	5.1
Hexachloroethane		0.629	0.589	0.645	0.647	0.657	0.646	4.7
Nitrobenzene		0.495	0.428	0.429	0.386	0.397	0.421	8.5
Isophorone		0.659	0.598	0.626	0.577	0.618	0.630	5.6
2-Nitrophenol		0.140	0.128	0.134	0.134	0.146	0.143	9.1
2,4-Dimethylphenol		0.188	0.169	0.170	0.163	0.181	0.180	6.9
bis(2-Chloroethoxy)methane		0.386	0.335	0.344	0.338	0.362	0.364	7.1
2,4-Dichlorophenol		0.255	0.232	0.257	0.254	0.267	0.265	8.5
1,2,4-Trichlorobenzene		0.329	0.303	0.318	0.306	0.312	0.320	4.6
Benzoic acid			0.141	0.159	0.165	0.183	0.177	14.8
Naphthalene		0.981	0.941	0.994	0.955	0.975	0.990	4.1
4-Chloroaniline		0.346	0.329	0.360	0.351	0.354	0.355	4.4
Hexachlorobutadiene		0.207	0.192	0.198	0.195	0.200	0.204	5.3
Caprolactam			0.068	0.078	0.083	0.090	0.086	14.2
4-Chloro-3-methylphenol		0.276	0.273	0.318	0.333	0.341	0.325	11.9
2-Methylnaphthalene		0.680	0.658	0.725	0.707	0.717	0.724	7.1
Hexachlorocyclopentadiene		0.247	0.220	0.232	0.223	0.223	0.233	5.3
2,4,6-Trichlorophenol		0.331	0.316	0.349	0.342	0.352	0.348	6.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG No.: BM051324
Instrument ID: _____ Calibration Date(s): 5/13/2024 : _____
Calibration Time(s): 16:38 : _____

LAB FILE ID:		RRF2.5 = BM045716.D			RRF005 = BM045717.D		RRF010 = BM045718.D	
		RRF020 = BM045719.D			RRF040 = BM045720.D		RRF050 = BM045721.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.456	1.336	1.387	1.389	1.420	1.451	7.4
2,4,5-Trichlorophenol		0.381	0.368	0.390	0.383	0.389	0.391	4.7
1,1-Biphenyl		1.531	1.413	1.433	1.365	1.374	1.437	4.5
2-Chloronaphthalene		1.192	1.068	1.115	1.055	1.082	1.111	4.4
2-Nitroaniline		0.348	0.341	0.380	0.366	0.368	0.365	4.1
Dimethylphthalate		1.523	1.423	1.458	1.394	1.410	1.458	3.6
Acenaphthylene		1.676	1.627	1.711	1.684	1.722	1.727	4.8
2,6-Dinitrotoluene		0.308	0.301	0.315	0.309	0.314	0.315	3.7
3-Nitroaniline		0.276	0.294	0.308	0.308	0.317	0.310	6.6
Acenaphthene		1.038	0.978	1.060	1.059	1.076	1.071	5.6
2,4-Dinitrophenol			0.126	0.159	0.174	0.181	0.173	15.9
4-Nitrophenol		0.204	0.239	0.273	0.275	0.283	0.267	12.6
Dibenzofuran		1.653	1.661	1.735	1.746	1.789	1.777	6.5
2,4-Dinitrotoluene		0.379	0.431	0.463	0.479	0.499	0.478	12.8
Diethylphthalate		1.571	1.612	1.671	1.618	1.663	1.657	3.7
4-Chlorophenyl-phenylether		0.688	0.705	0.754	0.763	0.784	0.774	9.2
Fluorene		1.454	1.441	1.539	1.576	1.616	1.597	8.8
4-Nitroaniline		0.281	0.303	0.344	0.345	0.353	0.338	9.8
4,6-Dinitro-2-methylphenol			0.080	0.100	0.110	0.115	0.106	16.3
n-Nitrosodiphenylamine		0.467	0.444	0.503	0.518	0.530	0.519	10.6
Azobenzene		1.627	1.653	1.681	1.602	1.606	1.626	1.9
2,4,6-Tribromophenol		0.220	0.237	0.260	0.274	0.284	0.273	14.0
4-Bromophenyl-phenylether		0.189	0.181	0.189	0.192	0.196	0.198	8.1
Hexachlorobenzene		0.233	0.219	0.229	0.231	0.235	0.238	7.0
Atrazine		0.163	0.162	0.173	0.167	0.159	0.164	3.0
Pentachlorophenol		0.125	0.126	0.145	0.155	0.159	0.151	13.4
Phenanthrene		0.909	0.913	0.996	0.998	1.018	1.008	8.3
Anthracene		0.863	0.856	0.952	0.974	0.994	0.971	9.5
Carbazole		0.802	0.840	0.943	0.946	0.969	0.942	10.1
Di-n-butylphthalate		1.026	1.085	1.202	1.231	1.251	1.225	11.5
Fluoranthene		1.089	1.113	1.199	1.221	1.258	1.227	8.7
Benzidine		0.329	0.354	0.263	0.473	0.579	0.436	27.6
Pyrene		1.588	2.001	2.208	2.065	1.998	2.040	11.0
Terphenyl-d14			1.723	2.028	2.027	2.038	2.049	9.3
Butylbenzylphthalate		0.564	0.748	0.946	0.883	0.868	0.837	16.5
3,3-Dichlorobenzidine		0.452	0.429	0.502	0.568	0.600	0.510	14.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG No.: BM051324
Instrument ID: _____ Calibration Date(s): 5/13/2024 : _____
Calibration Time(s): 16:38 _____

LAB FILE ID:		RRF2.5 = BM045716.D			RRF005 = BM045717.D		RRF010 = BM045718.D	
		RRF020 = BM045719.D			RRF040 = BM045720.D		RRF050 = BM045721.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.276	1.203	1.347	1.364	1.376	1.369	8.6
Chrysene		1.167	1.080	1.201	1.235	1.253	1.255	10.6
Bis(2-ethylhexyl)phthalate		0.794	0.777	1.004	1.128	1.205	0.982	19.7
Di-n-octyl phthalate		1.352	1.262	1.322	1.282	1.316	1.380	9.6
Benzo(b)fluoranthene		1.109	1.116	1.209	1.287	1.475	1.293	14.5
Benzo(k)fluoranthene		1.019	1.043	1.148	1.184	1.286	1.184	12.9
Benzo(a)pyrene		0.970	0.956	1.036	1.063	1.198	1.121	13.8
Indeno(1,2,3-cd)pyrene		1.233	1.186	1.260	1.306	1.367	1.259	5.8
Dibenzo(a,h)anthracene		1.032	0.991	1.049	1.092	1.128	1.060	4.4
Benzo(g,h,i)perylene		1.075	1.017	1.101	1.108	1.135	1.091	4.0
1,2,4,5-Tetrachlorobenzene		0.568	0.509	0.521	0.504	0.505	0.531	5.8
1,4-Dioxane		0.345	0.315	0.297	0.298	0.308	0.318	5.8
2,3,4,6-Tetrachlorophenol		0.320	0.333	0.364	0.357	0.369	0.359	6.9
1-Methylnaphthalene		0.668	0.639	0.715	0.696	0.713	0.713	7.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG NO.: BM051324

EPA Sample No.: SSTDICCC040 Date Analyzed: May 13 2024 12:00AM

Lab File ID: BM045720.D Time Analyzed: 22:35

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	107795	7.581	535022	10.35	373093	14.22
UPPER LIMIT	215590	8.081	1070044	10.851	746186	14.715
LOWER LIMIT	53897.5	7.081	267511	9.851	186546.5	13.715
EPA SAMPLE NO.						
01 ICVBM051324	97459	7.58	443718	10.35	322592	14.21
02 PB160855BL	82155	7.58	292265	10.35	149758 *	14.21

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG NO.: BM051324

EPA Sample No.: SSTDICCC040 Date Analyzed: May 13 2024 12:00AM

Lab File ID: BM045720.D Time Analyzed: 22:35

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	107795	7.581	535022	10.35	373093	14.22
UPPER LIMIT	215590	8.081	1070044	10.851	746186	14.715
LOWER LIMIT	53897.5	7.081	267511	9.851	186546.5	13.715
EPA SAMPLE NO.						
01 ICVBM051324	97459	7.58	443718	10.35	322592	14.21
02 PB160855BL	82155	7.58	292265	10.35	149758 *	14.21

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG NO.: BM051324

EPA Sample No.: SSTDICCC040 Date Analyzed: May 13 2024 12:00AM

Lab File ID: BM045720.D Time Analyzed: 22:35

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	870183	16.962	510096	21.18	449575	23.985
UPPER LIMIT	1740366	17.462	1020192	21.68	899150	24.485
LOWER LIMIT	435091.5	16.462	255048	20.68	224787.5	23.485
EPA SAMPLE NO.						
01 ICVBM051324	772238	16.96	510522	21.17	486066	23.97
02 PB160855BL	304470 *	16.96	242042 *	21.17	308779	23.97

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM051324 SAS No.: BM051324 SDG NO.: BM051324

EPA Sample No.: SSTDICCC040 Date Analyzed: May 13 2024 12:00AM

Lab File ID: BM045720.D Time Analyzed: 22:35

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	870183	16.962	510096	21.18	449575	23.985
UPPER LIMIT	1740366	17.462	1020192	21.68	899150	24.485
LOWER LIMIT	435091.5	16.462	255048	20.68	224787.5	23.485
EPA SAMPLE NO.						
01 ICVBM051324	772238	16.96	510522	21.17	486066	23.97
02 PB160855BL	304470 *	16.96	242042 *	21.17	308779	23.97

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.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBM051324

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM051324

SAS No.: BM051324 SDG NO.: BM051324

Lab File ID: BM045724.D

Lab Sample ID: SSTDICV040

Instrument ID: BNA_M

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 05/13/2024

Level: (low/med) LOW

Time Analyzed: 22:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM051324	SSTDICV040	BM045724.D	05/13/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160855BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM051324

SAS No.: BM051324 SDG NO.: BM051324

Lab File ID: BM045725.D

Lab Sample ID: PB160855BL

Instrument ID: BNA_M

Date Extracted: 05/10/2024

Matrix: (soil/water) water

Date Analyzed: 05/13/2024

Level: (low/med) LOW

Time Analyzed: 23:14

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:



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

Surrogate Summary

SW-846

SDG No.: BM051324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBM051324	BM045724.D	2-Fluorophenol	150	82,211.00	54807	*	10	139
			Phenol-d6	150	83,378.00	55585	*	10	134
			Nitrobenzene-d5	100	79,623.00	79623	*	49	133
			2-Fluorobiphenyl	100	76,253.00	76253	*	52	132
			2,4,6-Tribromophenol	150	82,417.00	54945	*	32	145
			Terphenyl-d14	100	71,187.00	71187	*	36	145



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

Surrogate Summary

SW-846

SDG No.: BM051324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160855BL	PB160855BL	BM045725.D	2-Fluorophenol	150	154.42	103		10	139
			Phenol-d6	150	148.36	99		10	134
			Nitrobenzene-d5	100	99.44	99		49	133
			2-Fluorobiphenyl	100	98.03	98		52	132
			2,4,6-Tribromophenol	150	153.47	102		32	145
			Terphenyl-d14	100	77.79	78		36	145

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM051324

Lab Code: CHEM

SAS No.: BM051324

SDG NO.: BM051324

Lab File ID: BM045715.D

DFTPP Injection Date: 05/13/2024

Instrument ID: BNA_M

DFTPP Injection Time: 15:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	50.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	55.3
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	29.7
365	Greater than 1% of mass 198	6.2
441	Present, but less than mass 443	13.4
442	Greater than 50% of mass 198	88.9
443	15.0 - 24.0% of mass 442	17.3 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM045716.D	05/13/2024	16:38
SSTDICC005	SSTDICC005	BM045717.D	05/13/2024	17:18
SSTDICC010	SSTDICC010	BM045718.D	05/13/2024	17:58
SSTDICC020	SSTDICC020	BM045719.D	05/13/2024	18:37
SSTDICCC040	SSTDICCC040	BM045720.D	05/13/2024	19:17
SSTDICC050	SSTDICC050	BM045721.D	05/13/2024	19:57
SSTDICC060	SSTDICC060	BM045722.D	05/13/2024	20:36
SSTDICC080	SSTDICC080	BM045723.D	05/13/2024	21:16
ICVBM051324	SSTDICV040	BM045724.D	05/13/2024	22:35
PB160855BL	PB160855BL	BM045725.D	05/13/2024	23:14