

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM050824 SAS No.: BM050824 SDG No.: BM050824

Instrument ID: BNA_M Calibration Date/Time: 5/8/2024 12:12:14

Lab File ID: BM045709.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	0.707	0.699		-1.132	
Pyridine	1.351	1.336		-1.11	
2-Fluorophenol	1.203	1.182		-1.746	
Benzaldehyde	0.872	0.795		-8.83	
Aniline	1.617	1.662		2.783	
Phenol-d6	1.631	1.618		-0.797	
Phenol	1.646	1.632		-0.851	20.0
bis(2-Chloroethyl) ether	1.395	1.367		-2.007	
2-Chlorophenol	1.333	1.320		-0.975	
1,2-Dichlorobenzene	1.449	1.413		-2.484	
1,3-Dichlorobenzene	1.496	1.469		-1.805	
1,4-Dichlorobenzene	1.515	1.489		-1.716	20.0
Benzyl Alcohol	1.154	1.147		-0.607	
2-Methylphenol	1.119	1.111		-0.715	
2,2-oxybis(1-Chloropropane)	2.152	2.107		-2.091	
Acetophenone	0.476	0.467		-1.891	
3+4-Methylphenols	1.562	1.551		-0.704	
n-Nitroso-di-n-propylamine	1.120	1.099	0.050	-1.875	
Nitrobenzene-d5	0.349	0.348		-0.287	
Hexachloroethane	0.589	0.576		-2.207	
Nitrobenzene	0.348	0.342		-1.724	
Isophorone	0.698	0.681		-2.436	
2-Nitrophenol	0.127	0.131		3.15	20.0
2,4-Dimethylphenol	0.211	0.208		-1.422	
bis(2-Chloroethoxy) methane	0.426	0.414		-2.817	
2,4-Dichlorophenol	0.263	0.263		0.0	20.0
1,2,4-Trichlorobenzene	0.297	0.293		-1.347	
Benzoic acid	0.167	0.163		-2.395	
Naphthalene	1.011	0.986		-2.473	
4-Chloroaniline	0.401	0.395		-1.496	
Hexachlorobutadiene	0.170	0.166		-2.353	20.0
Caprolactam	0.099	0.098		-1.01	
4-Chloro-3-methylphenol	0.309	0.307		-0.647	20.0
2-Methylnaphthalene	0.691	0.676		-2.171	
Hexachlorocyclopentadiene	0.174	0.181	0.050	4.023	
2,4,6-Trichlorophenol	0.319	0.326		2.194	20.0
2-Fluorobiphenyl	1.229	1.256		2.197	
2,4,5-Trichlorophenol	0.355	0.359		1.127	
1,1-Biphenyl	1.387	1.363		-1.73	

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Instrument ID: BNA_M Calibration Date/Time: 5/8/2024 12:12:14

Lab File ID: BM045709.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	1.086	1.070		-1.473	
2-Nitroaniline	0.292	0.306		4.795	
Dimethylphthalate	1.364	1.333		-2.273	
Acenaphthylene	1.659	1.642		-1.025	
2,6-Dinitrotoluene	0.273	0.283		3.663	
3-Nitroaniline	0.306	0.319		4.248	
Acenaphthene	1.046	1.023		-2.199	20.0
2,4-Dinitrophenol	0.082	0.081	0.050	-1.22	
4-Nitrophenol	0.249	0.262	0.050	5.221	
Dibenzofuran	1.589	1.557		-2.014	
2,4-Dinitrotoluene	0.359	0.379		5.571	
Diethylphthalate	1.479	1.449		-2.028	
4-Chlorophenyl-phenylether	0.638	0.626		-1.881	
Fluorene	1.347	1.323		-1.782	
4-Nitroaniline	0.333	0.344		3.303	
4,6-Dinitro-2-methylphenol	0.068	0.066		-2.941	
n-Nitrosodiphenylamine	0.547	0.535		-2.194	20.0
Azobenzene	1.438	1.390		-3.338	
2,4,6-Tribromophenol	0.196	0.198		1.02	
4-Bromophenyl-phenylether	0.191	0.188		-1.571	
Hexachlorobenzene	0.222	0.217		-2.252	
Atrazine	0.166	0.167		0.602	
Pentachlorophenol	0.139	0.139		0.0	20.0
Phenanthrene	0.946	0.943		-0.317	
Anthracene	0.944	0.942		-0.212	
Carbazole	0.960	0.954		-0.625	
Di-n-butylphthalate	1.185	1.293		9.114	
Fluoranthene	1.104	1.135		2.808	20.0
Benzidine	0.574	0.986		71.777	
Pyrene	1.287	1.340		4.118	
Terphenyl-d14	0.929	0.935		0.646	
Butylbenzylphthalate	0.582	0.612		5.155	
3,3-Dichlorobenzidine	0.466	0.487		4.506	
Benzo(a)anthracene	1.251	1.286		2.798	
Chrysene	1.151	1.188		3.215	
Bis(2-ethylhexyl)phthalate	0.913	0.986		7.996	
Di-n-octyl phthalate	1.420	1.646		15.915	20.0
Benzo(b)fluoranthene	1.171	1.148		-1.964	
Benzo(k)fluoranthene	1.108	1.123		1.354	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BM050824 SAS No.: BM050824 SDG No.: BM050824
 Instrument ID: BNA_M Calibration Date/Time: 5/8/2024 12:12:14
 Lab File ID: BM045709.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	1.029	1.018		-1.069	20.0
Indeno(1,2,3-cd)pyrene	1.282	1.296		1.092	
Dibenzo(a,h)anthracene	1.064	1.071		0.658	
Benzo(g,h,i)perylene	1.039	1.051		1.155	
1,2,4,5-Tetrachlorobenzene	0.493	0.487		-1.217	
1,4-Dioxane	0.457	0.441		-3.501	20.0
2,3,4,6-Tetrachlorophenol	0.292	0.299		2.397	
1-Methylnaphthalene	0.683	0.666		-2.489	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBM050824	SDG No.:	BM050824
Lab Sample ID:	SSTDICV040	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000000 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
BM045713.D	1		5/8/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	39400		1000	8000	10000	ug/L
110-86-1	Pyridine	39100		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39900		4000	8000	10000	ug/L
62-53-3	Aniline	40400		1600	4000	5000	ug/L
108-95-2	Phenol	39900		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39400		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	39800		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39100		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	39300		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39000		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40400		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	39800		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39500		1400	4000	5000	ug/L
98-86-2	Acetophenone	39300		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40200		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39700		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	39000		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	40100		1300	4000	5000	ug/L
78-59-1	Isophorone	39200		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	39000		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	39100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39000		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40400		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39000		1100	4000	5000	ug/L
65-85-0	Benzoic acid	41500		5500	8000	10000	ug/L
91-20-3	Naphthalene	38900		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	39100		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	39000		1300	4000	5000	ug/L

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBM050824	SDG No.:	BM050824
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
BM045713.D	1		5/8/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	41400		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	40400		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39200		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	39300		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	41300		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	41300		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	38800		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	38800		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	39900		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39000		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39100		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	42000		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42300		1400	4000	5000	ug/L
83-32-9	Acenaphthene	38900		810	4000	5000	ug/L
Total PAH	Total PAH	635400		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	43300		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	39700		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39000		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	39500		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	81500		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39200		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38900		980	4000	5000	ug/L
86-73-7	Fluorene	39000		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	42500		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42600		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	39500		890	4000	5000	ug/L
103-33-3	Azobenzene	39200		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	39700		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	39300		1100	4000	5000	ug/L
1912-24-9	Atrazine	40700		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM050824			SDG No.:	BM050824		
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
BM045713.D	1		5/8/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	41900		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40200		890	4000	5000	ug/L
120-12-7	Anthracene	40300		1100	4000	5000	ug/L
86-74-8	Carbazole	40200		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	44200		1500	4000	5000	ug/L
206-44-0	Fluoranthene	41700		1300	4000	5000	ug/L
92-87-5	Benzidine	38000		4100	8000	10000	ug/L
129-00-0	Pyrene	41800		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	39000		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	40300		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40800		940	4000	5000	ug/L
218-01-9	Chrysene	41100		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44000		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	45900		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	39700		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39500		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39100		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	38600		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	38800		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	37900		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39000		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	38300		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41000		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38800		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	78390	*	10-139		52260	SPK: -150
13127-88-3	Phenol-d6	79367	*	10-134		52911	SPK: -150
4165-60-0	Nitrobenzene-d5	80905	*	49-133		80905	SPK: -100
321-60-8	2-Fluorobiphenyl	80983	*	52-132		80983	SPK: -100

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBM050824	SDG No.:	BM050824
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
BM045713.D	1		5/8/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	82981	*	32-145		55321	SPK: -150
1718-51-0	Terphenyl-d14	80272	*	36-145		80272	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	682688	7.645				
1146-65-2	Naphthalene-d8	3147569	10.422				
15067-26-2	Acenaphthene-d10	1950626	14.28				
1517-22-2	Phenanthrene-d10	3920661	17.027				
1719-03-5	Chrysene-d12	3473820	21.221				
1520-96-3	Perylene-d12	4045692	23.415				

Report of Analysis

Client:		Date Collected:	4/25/2024 12:00:00 AM
Project:		Date Received:	4/25/2024 12:00:00 AM
Client Sample ID:	PB160503BL	SDG No.:	BM050824
Lab Sample ID:	PB160503BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BM045714.D	1	4/25/2024 12:00:00 AM	5/8/2024 12:00:00 AM	PB160503

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.7	U	86.7	270	330	ug/Kg
110-86-1	Pyridine	79.8	U	79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.8	U	96.8	130	170	ug/Kg
108-95-2	Phenol	82.8	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.5	U	84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	85.9	U	85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.4	U	86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	82.9	U	82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.3	U	85.3	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	4/25/2024 12:00:00 AM
Project:		Date Received:	4/25/2024 12:00:00 AM
Client Sample ID:	PB160503BL	SDG No.:	BM050824
Lab Sample ID:	PB160503BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BM045714.D	1	4/25/2024 12:00:00 AM	5/8/2024 12:00:00 AM	PB160503

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.7	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74	U	74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	86.4	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	81	U	81	130	170	ug/Kg
Total PAH	Total PAH	1323.5	U	1323.5	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	169.2	U	169.2	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	80	U	80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	130	170	ug/Kg
103-33-3	Azobenzene	79.5	U	79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	4/25/2024 12:00:00 AM
Project:		Date Received:	4/25/2024 12:00:00 AM
Client Sample ID:	PB160503BL	SDG No.:	BM050824
Lab Sample ID:	PB160503BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BM045714.D	1	4/25/2024 12:00:00 AM	5/8/2024 12:00:00 AM	PB160503

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.2	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81	U	81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78	U	78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80	U	80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	163.068		18-112		109	SPK: -150
13127-88-3	Phenol-d6	154.214		15-107		103	SPK: -150
4165-60-0	Nitrobenzene-d5	95.611		18-107		96	SPK: -100
321-60-8	2-Fluorobiphenyl	95.29		20-109		95	SPK: -100

Report of Analysis

Client:		Date Collected:	4/25/2024 12:00:00 AM
Project:		Date Received:	4/25/2024 12:00:00 AM
Client Sample ID:	PB160503BL	SDG No.:	BM050824
Lab Sample ID:	PB160503BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BM045714.D	1	4/25/2024 12:00:00 AM	5/8/2024 12:00:00 AM	PB160503

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	151.1		10-110		101	SPK: -150
1718-51-0	Terphenyl-d14	99.876		14-112		100	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	618583	7.645				
1146-65-2	Naphthalene-d8	2762512	10.416				
15067-26-2	Acenaphthene-d10	1757775	14.28				
1517-22-2	Phenanthrene-d10	3654954	17.027				
1719-03-5	Chrysene-d12	3125427	21.215				
1520-96-3	Perylene-d12	3447692	23.415				

Hit Summary Sheet SW-846

SDG No.: BM050824

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBM050824							
SSTDICV040	ICVBM050824	Water 1,1-Biphenyl	38,800.000	910		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,2,4,5-Tetrachlorobenzene	39,000.000	1100		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,2,4-Trichlorobenzene	39,000.000	1100		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,2-Dichlorobenzene	39,100.000	880		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,3-Dichlorobenzene	39,300.000	800		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,4-Dichlorobenzene	39,000.000	840		5000	ug/L
SSTDICV040	ICVBM050824	Water 1,4-Dioxane	38,300.000	1300		5000	ug/L
SSTDICV040	ICVBM050824	Water 1-Methylnaphthalene	38,800.000	860		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,2-oxybis(1-Chloropropane)	39,500.000	1400		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,3,4,6-Tetrachlorophenol	41,000.000	790		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,4,5-Trichlorophenol	41,300.000	1000		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,4,6-Trichlorophenol	41,300.000	890		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,4-Dichlorophenol	40,400.000	880		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,4-Dimethylphenol	39,100.000	1500		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,4-Dinitrophenol	43,300.000	6400		10000	ug/L
SSTDICV040	ICVBM050824	Water 2,4-Dinitrotoluene	39,500.000	1500		5000	ug/L
SSTDICV040	ICVBM050824	Water 2,6-Dinitrotoluene	42,000.000	1200		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Chloronaphthalene	38,800.000	970		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Chlorophenol	39,800.000	710		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Methylnaphthalene	39,200.000	1100		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Methylphenol	39,800.000	1100		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Nitroaniline	39,900.000	1400		5000	ug/L
SSTDICV040	ICVBM050824	Water 2-Nitrophenol	39,000.000	2000		5000	ug/L
SSTDICV040	ICVBM050824	Water 3+4-Methylphenols	40,200.000	1200		10000	ug/L
SSTDICV040	ICVBM050824	Water 3,3-Dichlorobenzidine	40,300.000	1300		10000	ug/L
SSTDICV040	ICVBM050824	Water 3-Nitroaniline	42,300.000	1400		5000	ug/L
SSTDICV040	ICVBM050824	Water 4,6-Dinitro-2-methylphenol	42,600.000	3100		10000	ug/L
SSTDICV040	ICVBM050824	Water 4-Bromophenyl-phenylether	39,700.000	950		5000	ug/L
SSTDICV040	ICVBM050824	Water 4-Chloro-3-methylphenol	40,400.000	840		5000	ug/L
SSTDICV040	ICVBM050824	Water 4-Chloroaniline	39,100.000	1300		5000	ug/L
SSTDICV040	ICVBM050824	Water 4-Chlorophenyl-phenylether	38,900.000	980		5000	ug/L
SSTDICV040	ICVBM050824	Water 4-Nitroaniline	42,500.000	2000		5000	ug/L
SSTDICV040	ICVBM050824	Water 4-Nitrophenol	39,700.000	2000		10000	ug/L
SSTDICV040	ICVBM050824	Water Acenaphthene	38,900.000	810		5000	ug/L
SSTDICV040	ICVBM050824	Water Acenaphthylene	39,100.000	1000		5000	ug/L
SSTDICV040	ICVBM050824	Water Acetophenone	39,300.000	1100		5000	ug/L
SSTDICV040	ICVBM050824	Water Aniline	40,400.000	1600		5000	ug/L

Hit Summary Sheet SW-846

SDG No.: BM050824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM050824	Water	Anthracene	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBM050824	Water	Atrazine	40,700.000		1300	5000	ug/L
SSTDICV040	ICVBM050824	Water	Azobenzene	39,200.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzaldehyde	39,900.000		4000	10000	ug/L
SSTDICV040	ICVBM050824	Water	Benzidine	38,000.000		4100	10000	ug/L
SSTDICV040	ICVBM050824	Water	Benzo(a)anthracene	40,800.000		940	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzo(a)pyrene	39,100.000		1700	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzo(b)fluoranthene	39,700.000		1100	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzo(g,h,i)perylene	37,900.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzo(k)fluoranthene	39,500.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Benzoic acid	41,500.000		5500	10000	ug/L
SSTDICV040	ICVBM050824	Water	Benzyl Alcohol	40,400.000		1600	10000	ug/L
SSTDICV040	ICVBM050824	Water	bis(2-Chloroethoxy)methane	39,000.000		1000	5000	ug/L
SSTDICV040	ICVBM050824	Water	bis(2-Chloroethyl)ether	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Bis(2-ethylhexyl)phthalate	44,000.000		1900	5000	ug/L
SSTDICV040	ICVBM050824	Water	Butylbenzylphthalate	39,000.000		2100	5000	ug/L
SSTDICV040	ICVBM050824	Water	Caprolactam	41,400.000		1700	10000	ug/L
SSTDICV040	ICVBM050824	Water	Carbazole	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Chrysene	41,100.000		860	5000	ug/L
SSTDICV040	ICVBM050824	Water	Di-n-butylphthalate	44,200.000		1500	5000	ug/L
SSTDICV040	ICVBM050824	Water	Di-n-octyl phthalate	45,900.000		2500	10000	ug/L
SSTDICV040	ICVBM050824	Water	Dibenzo(a,h)anthracene	38,800.000		1200	5000	ug/L
SSTDICV040	ICVBM050824	Water	Dibenzofuran	39,000.000		930	5000	ug/L
SSTDICV040	ICVBM050824	Water	Diethylphthalate	39,200.000		1000	5000	ug/L
SSTDICV040	ICVBM050824	Water	Dimethylphthalate	39,000.000		930	5000	ug/L
SSTDICV040	ICVBM050824	Water	Fluoranthene	41,700.000		1300	5000	ug/L
SSTDICV040	ICVBM050824	Water	Fluorene	39,000.000		960	5000	ug/L
SSTDICV040	ICVBM050824	Water	Hexachlorobenzene	39,300.000		1100	5000	ug/L
SSTDICV040	ICVBM050824	Water	Hexachlorobutadiene	39,000.000		1300	5000	ug/L
SSTDICV040	ICVBM050824	Water	Hexachlorocyclopentadiene	39,300.000		5000	10000	ug/L
SSTDICV040	ICVBM050824	Water	Hexachloroethane	39,000.000		1000	5000	ug/L
SSTDICV040	ICVBM050824	Water	Indeno(1,2,3-cd)pyrene	38,600.000		1000	5000	ug/L
SSTDICV040	ICVBM050824	Water	Isophorone	39,200.000		1100	5000	ug/L
SSTDICV040	ICVBM050824	Water	n-Nitroso-di-n-propylamine	39,700.000		1500	2500	ug/L
SSTDICV040	ICVBM050824	Water	n-Nitrosodimethylamine	39,400.000		1000	10000	ug/L
SSTDICV040	ICVBM050824	Water	n-Nitrosodiphenylamine	39,500.000		890	5000	ug/L
SSTDICV040	ICVBM050824	Water	Naphthalene	38,900.000		1000	5000	ug/L
SSTDICV040	ICVBM050824	Water	Nitrobenzene	40,100.000		1300	5000	ug/L
SSTDICV040	ICVBM050824	Water	Pentachlorophenol	41,900.000		1900	10000	ug/L
SSTDICV040	ICVBM050824	Water	Phenanthrene	40,200.000		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.: BM050824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM050824	Water	Phenol	39,900.000		930	5000	ug/L
SSTDICV040	ICVBM050824	Water	Pyrene	41,800.000		1100	5000	ug/L
SSTDICV040	ICVBM050824	Water	Pyridine	39,100.000		1600	5000	ug/L
SSTDICV040	ICVBM050824	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	81,500.000		2700	10000	ug/L
SSTDICV040	ICVBM050824	Water	Total PAH	635,400.000		17360	80000	ug/L
Total Svoc :				3,918,300.00				
Total Concentration:				3,918,300.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM050824 SAS No.: BM050824 SDG No.: BM050824
Instrument ID: _____ Calibration Date(s): 5/8/2024 1: _____
Calibration Time(s): 09:46 _____

LAB FILE ID:		RRF2.5 = BM045705.D			RRF005 = BM045706.D		RRF010 = BM045707.D	
		RRF020 = BM045708.D			RRF040 = BM045709.D		RRF050 = BM045710.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.704	0.681	0.724	0.699	0.699	0.707	2.4
Pyridine		1.310	1.289	1.344	1.336	1.348	1.351	3.7
2-Fluorophenol		1.199	1.161	1.211	1.182	1.191	1.203	2.4
Benzaldehyde		1.155	1.060	1.022	0.795	0.754	0.872	23.7
Aniline		1.596	1.583	1.653	1.662	1.656	1.617	4.0
Phenol-d6		1.581	1.551	1.652	1.618	1.642	1.631	3.1
Phenol		1.611	1.598	1.676	1.632	1.643	1.646	2.1
bis(2-Chloroethyl)ether		1.414	1.368	1.424	1.367	1.383	1.395	1.6
2-Chlorophenol		1.330	1.302	1.364	1.320	1.320	1.333	1.6
1,2-Dichlorobenzene		1.509	1.461	1.500	1.413	1.416	1.449	2.8
1,3-Dichlorobenzene		1.541	1.484	1.542	1.469	1.458	1.496	2.2
1,4-Dichlorobenzene		1.558	1.511	1.543	1.489	1.485	1.515	1.8
Benzyl Alcohol		1.125	1.100	1.178	1.147	1.161	1.154	2.8
2-Methylphenol		1.111	1.093	1.147	1.111	1.112	1.119	1.5
2,2-oxybis(1-Chloropropane)		2.215	2.155	2.242	2.107	2.108	2.152	2.6
Acetophenone		0.485	0.468	0.494	0.467	0.467	0.476	2.2
3+4-Methylphenols		1.501	1.509	1.603	1.551	1.569	1.562	2.8
n-Nitroso-di-n-propylamine	1.136	1.130	1.111	1.166	1.099	1.108	1.120	2.1
Nitrobenzene-d5		0.327	0.331	0.358	0.348	0.353	0.349	4.3
Hexachloroethane		0.599	0.573	0.605	0.576	0.579	0.589	2.2
Nitrobenzene		0.340	0.334	0.357	0.342	0.347	0.348	2.8
Isophorone		0.715	0.681	0.721	0.681	0.684	0.698	2.3
2-Nitrophenol		0.089	0.096	0.119	0.131	0.140	0.127	21.3
2,4-Dimethylphenol		0.214	0.200	0.216	0.208	0.209	0.211	2.7
bis(2-Chloroethoxy)methane		0.436	0.415	0.437	0.414	0.419	0.426	2.3
2,4-Dichlorophenol		0.244	0.243	0.264	0.263	0.267	0.263	5.9
1,2,4-Trichlorobenzene		0.301	0.286	0.303	0.293	0.293	0.297	2.3
Benzoic acid			0.108	0.141	0.163	0.178	0.167	23.4
Naphthalene		1.042	0.993	1.043	0.986	0.989	1.011	2.4
4-Chloroaniline		0.400	0.387	0.407	0.395	0.397	0.401	2.2
Hexachlorobutadiene		0.172	0.163	0.174	0.166	0.167	0.170	2.4
Caprolactam		0.091	0.092	0.099	0.098	0.103	0.099	6.2
4-Chloro-3-methylphenol		0.283	0.290	0.313	0.307	0.316	0.309	5.6
2-Methylnaphthalene		0.705	0.671	0.704	0.676	0.684	0.691	2.0
Hexachlorocyclopentadiene		0.154	0.157	0.176	0.181	0.175	0.174	7.9
2,4,6-Trichlorophenol		0.276	0.283	0.317	0.326	0.327	0.319	9.5

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.: BM050824 SAS No.: BM050824 SDG No.: BM050824
Instrument ID: _____ Calibration Date(s): 5/8/2024 1: _____
Calibration Time(s): 09:46 _____

LAB FILE ID:		RRF2.5 = BM045705.D			RRF005 = BM045706.D		RRF010 = BM045707.D	
		RRF020 = BM045708.D			RRF040 = BM045709.D		RRF050 = BM045710.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.316	1.261	1.330	1.256	1.231	1.229	8.5
2,4,5-Trichlorophenol		0.307	0.318	0.359	0.359	0.362	0.355	9.0
1,1-Biphenyl		1.419	1.353	1.427	1.363	1.348	1.387	2.3
2-Chloronaphthalene		1.111	1.061	1.119	1.070	1.052	1.086	2.4
2-Nitroaniline		0.207	0.238	0.288	0.306	0.318	0.292	18.0
Dimethylphthalate		1.377	1.323	1.393	1.333	1.337	1.364	2.3
Acenaphthylene		1.686	1.621	1.718	1.642	1.623	1.659	2.2
2,6-Dinitrotoluene		0.213	0.238	0.275	0.283	0.287	0.273	13.0
3-Nitroaniline		0.234	0.260	0.307	0.319	0.324	0.306	14.5
Acenaphthene		1.064	1.024	1.073	1.023	1.016	1.046	2.3
2,4-Dinitrophenol		0.046	0.051	0.064	0.081	0.093	0.082	36.9
4-Nitrophenol		0.172	0.205	0.248	0.262	0.269	0.249	18.3
Dibenzofuran		1.641	1.581	1.644	1.557	1.543	1.589	2.6
2,4-Dinitrotoluene		0.240	0.291	0.360	0.379	0.392	0.359	19.4
Diethylphthalate		1.491	1.438	1.518	1.449	1.448	1.479	2.2
4-Chlorophenyl-phenylether		0.657	0.624	0.654	0.626	0.614	0.638	2.6
Fluorene		1.375	1.319	1.382	1.323	1.308	1.347	2.2
4-Nitroaniline		0.264	0.296	0.338	0.344	0.348	0.333	11.9
4,6-Dinitro-2-methylphenol			0.039	0.053	0.066	0.074	0.068	29.7
n-Nitrosodiphenylamine		0.555	0.534	0.566	0.535	0.534	0.547	2.3
Azobenzene		1.498	1.439	1.496	1.390	1.389	1.438	3.1
2,4,6-Tribromophenol		0.167	0.174	0.199	0.198	0.201	0.196	9.8
4-Bromophenyl-phenylether		0.188	0.184	0.196	0.188	0.187	0.191	2.8
Hexachlorobenzene		0.225	0.216	0.228	0.217	0.217	0.222	2.5
Atrazine		0.169	0.170	0.179	0.167	0.160	0.166	5.0
Pentachlorophenol			0.113	0.136	0.139	0.141	0.139	10.9
Phenanthrene		0.974	0.939	0.997	0.943	0.940	0.946	4.7
Anthracene		0.978	0.940	0.992	0.942	0.932	0.944	4.6
Carbazole		0.997	0.957	1.014	0.954	0.948	0.960	5.0
Di-n-butylphthalate		1.229	1.238	1.351	1.293	1.201	1.185	13.0
Fluoranthene		1.174	1.129	1.193	1.135	1.133	1.104	9.2
Benzidine		0.314	0.321	0.247	0.986	0.671	0.574	58.4
Pyrene		1.319	1.287	1.390	1.340	1.324	1.287	7.6
Terphenyl-d14		1.118	1.095	1.167	0.935	0.827	0.929	22.5
Butylbenzylphthalate		0.399	0.472	0.577	0.612	0.634	0.582	19.0
3,3-Dichlorobenzidine		0.410	0.427	0.466	0.487	0.482	0.466	7.9

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.: BM050824 SAS No.: BM050824 SDG No.: BM050824
Instrument ID: _____ Calibration Date(s): 5/8/2024 1: _____
Calibration Time(s): 09:46 _____

LAB FILE ID:		RRF2.5 = BM045705.D			RRF005 = BM045706.D		RRF010 = BM045707.D	
		RRF020 = BM045708.D			RRF040 = BM045709.D		RRF050 = BM045710.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.308	1.268	1.335	1.286	1.275	1.251	7.2
Chrysene		1.215	1.163	1.233	1.188	1.179	1.151	8.2
Bis(2-ethylhexyl)phthalate		0.764	0.844	0.972	0.986	1.001	0.913	10.2
Di-n-octyl phthalate		1.312	1.429	1.643	1.646	1.473	1.420	13.8
Benzo(b)fluoranthene		1.131	1.149	1.209	1.148	1.162	1.171	3.1
Benzo(k)fluoranthene		1.109	1.052	1.134	1.123	1.128	1.108	3.0
Benzo(a)pyrene		0.995	0.974	1.043	1.018	1.029	1.029	3.6
Indeno(1,2,3-cd)pyrene		1.284	1.249	1.338	1.296	1.289	1.282	2.7
Dibenzo(a,h)anthracene		1.077	1.035	1.110	1.071	1.066	1.064	2.8
Benzo(g,h,i)perylene		1.066	1.023	1.094	1.051	1.041	1.039	3.6
1,2,4,5-Tetrachlorobenzene		0.493	0.465	0.503	0.487	0.483	0.493	3.4
1,4-Dioxane		0.490	0.455	0.462	0.441	0.443	0.457	3.6
2,3,4,6-Tetrachlorophenol		0.254	0.264	0.297	0.299	0.297	0.292	8.5
1-Methylnaphthalene		0.702	0.668	0.700	0.666	0.673	0.683	2.2

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.: BM050824 SAS No.: BM050824 SDG NO.: BM050824

EPA Sample No.: SSTDICCC040 Date Analyzed: May 8 2024 12:00AM

Lab File ID: BM045709.D Time Analyzed: 15:20

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	672891	7.645	3.08772e+00	10.42	1.89012e+00	14.28
UPPER LIMIT	1345782	8.145	6175440	10.922	3780240	14.78
LOWER LIMIT	336445.5	7.145	1543860	9.922	945060	13.78
EPA SAMPLE NO.						
01 ICVBM050824	682688	7.65	3.14757e	10.42	1.95063e	14.28
02 PB160503BL	618583	7.65	2.76251e	10.42	1.75778e	14.28

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM050824 SAS No.: BM050824 SDG NO.: BM050824

EPA Sample No.: SSTDICCC040 Date Analyzed: May 8 2024 12:00AM

Lab File ID: BM045709.D Time Analyzed: 15:20

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	672891	7.645	3.08772e+001	10.42	1.89012e+001	14.28
UPPER LIMIT	1345782	8.145	6175440	10.922	3780240	14.78
LOWER LIMIT	336445.5	7.145	1543860	9.922	945060	13.78
EPA SAMPLE NO.						
01 ICVBM050824	682688	7.65	3.14757e	10.42	1.95063e	14.28
02 PB160503BL	618583	7.65	2.76251e	10.42	1.75778e	14.28

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.: BM050824 SAS No.: BM050824 SDG NO.: BM050824

EPA Sample No.: SSTDICCC040 Date Analyzed: May 8 2024 12:00AM

Lab File ID: BM045709.D Time Analyzed: 15:20

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	3.85568e+00	17.027	3.37939e+	21.221	3.9751e+00	23.415
UPPER LIMIT	7711360	17.527	6758780	21.721	7950200	23.915
LOWER LIMIT	1927840	16.527	1689695	20.721	1987550	22.915
EPA SAMPLE NO.						
01 ICVBM050824	3.92066	17.03	3.47382e+	21.22	4.04569e+	23.42
02 PB160503BL	3.65495	17.03	3.12543e+	21.22	3.44769e+	23.42

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.: BM050824 SAS No.: BM050824 SDG NO.: BM050824

EPA Sample No.: SSTDICCC040 Date Analyzed: May 8 2024 12:00AM

Lab File ID: BM045709.D Time Analyzed: 15:20

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	3.85568e+00	17.027	3.37939e+	21.221	3.9751e+00	23.415
UPPER LIMIT	7711360	17.527	6758780	21.721	7950200	23.915
LOWER LIMIT	1927840	16.527	1689695	20.721	1987550	22.915
EPA SAMPLE NO.						
01 ICVBM050824	3.92066	17.03	3.47382e+	21.22	4.04569e+	23.42
02 PB160503BL	3.65495	17.03	3.12543e+	21.22	3.44769e+	23.42

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.

ICVBM050824

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM050824

SAS No.: BM050824 SDG NO.: BM050824

Lab File ID: BM045713.D

Lab Sample ID: SSTDICV040

Instrument ID: BNA_M

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 05/08/2024

Level: (low/med) LOW

Time Analyzed: 15:20

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM050824	SSTDICV040	BM045713.D	05/08/2024

COMMENTS: _____



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160503BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM050824

SAS No.: BM050824 SDG NO.: BM050824

Lab File ID: BM045714.D

Lab Sample ID: PB160503BL

Instrument ID: BNA_M

Date Extracted: 04/25/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/08/2024

Level: (low/med) LOW

Time Analyzed: 15:58

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

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

COMMENTS:



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Surrogate Summary

SW-846

SDG No.: BM050824

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBM050824	BM045713.D	2-Fluorophenol	150	78,390.00	52260	*	10	139
			Phenol-d6	150	79,367.00	52911	*	10	134
			Nitrobenzene-d5	100	80,905.00	80905	*	49	133
			2-Fluorobiphenyl	100	80,983.00	80983	*	52	132
			2,4,6-Tribromophenol	150	82,981.00	55321	*	32	145
			Terphenyl-d14	100	80,272.00	80272	*	36	145



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Surrogate Summary

SW-846

SDG No.: BM050824

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160503BL	PB160503BL	BM045714.D	2-Fluorophenol	150	163.07	109		18	112
			Phenol-d6	150	154.21	103		15	107
			Nitrobenzene-d5	100	95.61	96		18	107
			2-Fluorobiphenyl	100	95.29	95		20	109
			2,4,6-Tribromophenol	150	151.10	101		10	110
			Terphenyl-d14	100	99.88	100		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM050824

Lab Code: CHEM

SAS No.: BM050824

SDG NO.: BM050824

Lab File ID: BM045704.D

DFTPP Injection Date: 05/08/2024

Instrument ID: BNA_M

DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.7
68	Less than 2.0% of mass 69	0.5 (1.1) 1
69	Mass 69 relative abundance	40.6
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	51.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	10.9
442	Greater than 50% of mass 198	73.6
443	15.0 - 24.0% of mass 442	14.2 (19.3) 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	BM045705.D	05/08/2024	09:46
SSTDICC005	SSTDICC005	BM045706.D	05/08/2024	10:23
SSTDICC010	SSTDICC010	BM045707.D	05/08/2024	10:59
SSTDICC020	SSTDICC020	BM045708.D	05/08/2024	11:37
SSTDICCC040	SSTDICCC040	BM045709.D	05/08/2024	12:14
SSTDICC050	SSTDICC050	BM045710.D	05/08/2024	12:51
SSTDICC060	SSTDICC060	BM045711.D	05/08/2024	13:28
SSTDICC080	SSTDICC080	BM045712.D	05/08/2024	14:05
ICVBM050824	SSTDICV040	BM045713.D	05/08/2024	15:20
PB160503BL	PB160503BL	BM045714.D	05/08/2024	15:58