

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF042324 SAS No.: BF042324 SDG No.: BF042324

Instrument ID: BNA_F Calibration Date/Time: 4/23/2024 1:19:22

Lab File ID: BF137702.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.733	0.707		-3.547	
Pyridine	1.571	1.525		-2.928	
2-Fluorophenol	1.317	1.250		-5.087	
Benzaldehyde	0.938	0.832		-11.301	
Aniline	2.081	2.002		-3.796	
Phenol-d6	1.672	1.606		-3.947	
Phenol	1.670	1.603		-4.012	20.0
bis(2-Chloroethyl) ether	1.362	1.315		-3.451	
2-Chlorophenol	1.374	1.319		-4.003	
1,2-Dichlorobenzene	1.351	1.294		-4.219	
1,3-Dichlorobenzene	1.441	1.383		-4.025	
1,4-Dichlorobenzene	1.451	1.389		-4.273	20.0
Benzyl Alcohol	1.251	1.220		-2.478	
2-Methylphenol	1.221	1.177		-3.604	
2,2-oxybis(1-Chloropropane)	2.095	2.031		-3.055	
Acetophenone	0.489	0.462		-5.521	
3+4-Methylphenols	1.577	1.540		-2.346	
n-Nitroso-di-n-propylamine	1.081	1.021	0.050	-5.55	
Nitrobenzene-d5	0.377	0.360		-4.509	
Hexachloroethane	0.514	0.495		-3.696	
Nitrobenzene	0.381	0.366		-3.937	
Isophorone	0.700	0.659		-5.857	
2-Nitrophenol	0.167	0.166		-0.599	20.0
2,4-Dimethylphenol	0.337	0.313		-7.122	
bis(2-Chloroethoxy) methane	0.427	0.404		-5.386	
2,4-Dichlorophenol	0.295	0.281		-4.746	20.0
1,2,4-Trichlorobenzene	0.301	0.285		-5.316	
Benzoic acid	0.213	0.210		-1.408	
Naphthalene	1.021	0.964		-5.583	
4-Chloroaniline	0.432	0.409		-5.324	
Hexachlorobutadiene	0.180	0.173		-3.889	20.0
Caprolactam	0.095	0.091		-4.211	
4-Chloro-3-methylphenol	0.313	0.299		-4.473	20.0
2-Methylnaphthalene	0.700	0.656		-6.286	
Hexachlorocyclopentadiene	0.307	0.304	0.050	-0.977	
2,4,6-Trichlorophenol	0.385	0.373		-3.117	20.0
2-Fluorobiphenyl	1.339	1.190		-11.128	
2,4,5-Trichlorophenol	0.441	0.417		-5.442	
1,1-Biphenyl	1.455	1.377		-5.361	

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Lab File ID: BF137702.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.122	1.058		-5.704	
2-Nitroaniline	0.342	0.337		-1.462	
Dimethylphthalate	1.393	1.292		-7.251	
Acenaphthylene	1.749	1.655		-5.374	
2,6-Dinitrotoluene	0.294	0.286		-2.721	
3-Nitroaniline	0.330	0.324		-1.818	
Acenaphthene	1.133	1.059		-6.531	20.0
2,4-Dinitrophenol	0.135	0.130	0.050	-3.704	
4-Nitrophenol	0.257	0.254	0.050	-1.167	
Dibenzofuran	1.660	1.553		-6.446	
2,4-Dinitrotoluene	0.370	0.365		-1.351	
Diethylphthalate	1.340	1.245		-7.09	
4-Chlorophenyl-phenylether	0.641	0.593		-7.488	
Fluorene	1.297	1.202		-7.325	
4-Nitroaniline	0.314	0.308		-1.911	
4,6-Dinitro-2-methylphenol	0.115	0.112		-2.609	
n-Nitrosodiphenylamine	0.677	0.638		-5.761	20.0
Azobenzene	1.373	1.303		-5.098	
2,4,6-Tribromophenol	0.202	0.187		-7.426	
4-Bromophenyl-phenylether	0.232	0.217		-6.466	
Hexachlorobenzene	0.226	0.212		-6.195	
Atrazine	0.187	0.177		-5.348	
Pentachlorophenol	0.170	0.164		-3.529	20.0
Phenanthrene	1.059	0.987		-6.799	
Anthracene	1.084	1.014		-6.458	
Carbazole	0.982	0.926		-5.703	
Di-n-butylphthalate	1.198	1.113		-7.095	
Fluoranthene	1.113	1.040		-6.559	20.0
Benzidine	0.467	0.438		-6.21	
Pyrene	1.642	1.536		-6.456	
Terphenyl-d14	1.243	1.130		-9.091	
Butylbenzylphthalate	0.582	0.562		-3.436	
3,3-Dichlorobenzidine	0.432	0.411		-4.861	
Benzo(a)anthracene	1.395	1.326		-4.946	
Chrysene	1.303	1.231		-5.526	
Bis(2-ethylhexyl)phthalate	0.879	0.853		-2.958	
Di-n-octyl phthalate	1.321	1.321		0.0	20.0
Benzo(b)fluoranthene	1.280	1.271		-0.703	
Benzo(k)fluoranthene	1.258	1.220		-3.021	

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Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF042324 SAS No.: BF042324 SDG No.: BF042324

Instrument ID: BNA_F Calibration Date/Time: 4/23/2024 1:19:22

Lab File ID: BF137702.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.148	1.124		-2.091	20.0
Indeno(1,2,3-cd)pyrene	1.109	1.012		-8.747	
Dibenzo(a,h)anthracene	0.920	0.842		-8.478	
Benzo(g,h,i)perylene	0.895	0.815		-8.939	
1,2,4,5-Tetrachlorobenzene	0.548	0.520		-5.109	
1,4-Dioxane	0.590	0.567		-3.898	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.323		-5.279	
1-Methylnaphthalene	0.655	0.612		-6.565	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBF042324	SDG No.:	BF042324
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
BF137706.D	1		4/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	42700		1000	8000	10000	ug/L
110-86-1	Pyridine	38700		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	43400		4000	8000	10000	ug/L
62-53-3	Aniline	42600		1600	4000	5000	ug/L
108-95-2	Phenol	45000		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	43900		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	45700		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	47100		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	45700		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	45700		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	43400		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	41500		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	44400		1400	4000	5000	ug/L
98-86-2	Acetophenone	43700		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	41800		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	42400		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	46200		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	43400		1300	4000	5000	ug/L
78-59-1	Isophorone	43700		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	47400		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	37100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42500		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	43900		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	43700		1100	4000	5000	ug/L
65-85-0	Benzoic acid	46400		5500	8000	10000	ug/L
91-20-3	Naphthalene	42600		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	41500		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	43400		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF042324			SDG No.:	BF042324		
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
BF137706.D	1		4/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	43600		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	43000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	40300		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	45400		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	42500		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39800		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	42600		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	43100		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	44200		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	40700		930	4000	5000	ug/L
208-96-8	Acenaphthylene	44000		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43400		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42500		1400	4000	5000	ug/L
83-32-9	Acenaphthene	41400		810	4000	5000	ug/L
Total PAH	Total PAH	683600		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	43100		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	44300		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	41400		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	45100		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	88500		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	40800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40700		980	4000	5000	ug/L
86-73-7	Fluorene	41300		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	43000		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43300		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	41400		890	4000	5000	ug/L
103-33-3	Azobenzene	40900		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	41200		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	43700		1100	4000	5000	ug/L
1912-24-9	Atrazine	43100		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF042324			SDG No.:	BF042324		
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
BF137706.D	1		4/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	38100		1900	8000	10000	ug/L
85-01-8	Phenanthrene	41600		890	4000	5000	ug/L
120-12-7	Anthracene	41500		1100	4000	5000	ug/L
86-74-8	Carbazole	42000		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41500		1500	4000	5000	ug/L
206-44-0	Fluoranthene	41400		1300	4000	5000	ug/L
92-87-5	Benzidine	55100		4100	8000	10000	ug/L
129-00-0	Pyrene	42800		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	44900		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	43200		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	42700		940	4000	5000	ug/L
218-01-9	Chrysene	41000		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44700		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	43000		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	46300		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	42600		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	40600		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44900		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	44600		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	44300		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43200		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	42400		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41600		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	41900		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	82690	*	10-139		55127	SPK: -150
13127-88-3	Phenol-d6	81960	*	10-134		54640	SPK: -150
4165-60-0	Nitrobenzene-d5	80296	*	49-133		80296	SPK: -100
321-60-8	2-Fluorobiphenyl	73408	*	52-132		73408	SPK: -100

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBF042324	SDG No.:	BF042324
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
BF137706.D	1		4/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	81547	*	32-145		54365	SPK: -150
1718-51-0	Terphenyl-d14	78799	*	36-145		78799	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	263588	7.063				
1146-65-2	Naphthalene-d8	1080566	8.351				
15067-26-2	Acenaphthene-d10	614301	10.11				
1517-22-2	Phenanthrene-d10	1043863	11.604				
1719-03-5	Chrysene-d12	699179	14.262				
1520-96-3	Perylene-d12	545960	15.833				



Client:				Date Collected:	4/19/2024 12:00:00 AM	
Project:				Date Received:	4/19/2024 12:00:00 AM	
Client Sample ID:	PB160393BL			SDG No.:	BF042324	
Lab Sample ID:	PB160393BL			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
BF137707.D	1	4/19/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160393

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



Client:				Date Collected:	4/19/2024 12:00:00 AM	
Project:				Date Received:	4/19/2024 12:00:00 AM	
Client Sample ID:	PB160393BL			SDG No.:	BF042324	
Lab Sample ID:	PB160393BL			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
BF137707.D	1	4/19/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160393

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:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	PB160393BL	SDG No.:	BF042324
Lab Sample ID:	PB160393BL	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
BF137707.D	1	4/19/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160393

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	113.699		18-112		76	SPK: -150
13127-88-3	Phenol-d6	111.263		15-107		74	SPK: -150
4165-60-0	Nitrobenzene-d5	78.082		18-107		78	SPK: -100
321-60-8	2-Fluorobiphenyl	72.263		20-109		72	SPK: -100

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	PB160393BL	SDG No.:	BF042324
Lab Sample ID:	PB160393BL	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
BF137707.D	1	4/19/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	116.644		10-110		78	SPK: -150
1718-51-0	Terphenyl-d14	67.385		14-112		67	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	343111	7.063				
1146-65-2	Naphthalene-d8	1379635	8.345				
15067-26-2	Acenaphthene-d10	790124	10.11				
1517-22-2	Phenanthrene-d10	1415609	11.604				
1719-03-5	Chrysene-d12	1107054	14.251				
1520-96-3	Perylene-d12	999471	15.827				
TENTATIVE IDENTIFIED COMPOUNDS							
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	82.3	J			18.374	

Hit Summary Sheet SW-846

SDG No.: BF042324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBF042324								
SSTDICV040	ICVBF042324	Water	1,1-Biphenyl	42,600.000	910		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,2,4,5-Tetrachlorobenzene	43,200.000	1100		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,2,4-Trichlorobenzene	43,700.000	1100		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,2-Dichlorobenzene	47,100.000	880		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,3-Dichlorobenzene	45,700.000	800		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,4-Dichlorobenzene	45,700.000	840		5000	ug/L
SSTDICV040	ICVBF042324	Water	1,4-Dioxane	42,400.000	1300		5000	ug/L
SSTDICV040	ICVBF042324	Water	1-Methylnaphthalene	41,900.000	860		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,2-oxybis(1-Chloropropane)	44,400.000	1400		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,3,4,6-Tetrachlorophenol	41,600.000	790		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4,5-Trichlorophenol	39,800.000	1000		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4,6-Trichlorophenol	42,500.000	890		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4-Dichlorophenol	43,900.000	880		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4-Dimethylphenol	37,100.000	1500		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4-Dinitrophenol	43,100.000	6400		10000	ug/L
SSTDICV040	ICVBF042324	Water	2,4-Dinitrotoluene	45,100.000	1500		5000	ug/L
SSTDICV040	ICVBF042324	Water	2,6-Dinitrotoluene	43,400.000	1200		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Chloronaphthalene	43,100.000	970		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Chlorophenol	45,700.000	710		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Methylnaphthalene	40,300.000	1100		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Methylphenol	41,500.000	1100		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Nitroaniline	44,200.000	1400		5000	ug/L
SSTDICV040	ICVBF042324	Water	2-Nitrophenol	47,400.000	2000		5000	ug/L
SSTDICV040	ICVBF042324	Water	3+4-Methylphenols	41,800.000	1200		10000	ug/L
SSTDICV040	ICVBF042324	Water	3,3-Dichlorobenzidine	43,200.000	1300		10000	ug/L
SSTDICV040	ICVBF042324	Water	3-Nitroaniline	42,500.000	1400		5000	ug/L
SSTDICV040	ICVBF042324	Water	4,6-Dinitro-2-methylphenol	43,300.000	3100		10000	ug/L
SSTDICV040	ICVBF042324	Water	4-Bromophenyl-phenylether	41,200.000	950		5000	ug/L
SSTDICV040	ICVBF042324	Water	4-Chloro-3-methylphenol	43,000.000	840		5000	ug/L
SSTDICV040	ICVBF042324	Water	4-Chloroaniline	41,500.000	1300		5000	ug/L
SSTDICV040	ICVBF042324	Water	4-Chlorophenyl-phenylether	40,700.000	980		5000	ug/L
SSTDICV040	ICVBF042324	Water	4-Nitroaniline	43,000.000	2000		5000	ug/L
SSTDICV040	ICVBF042324	Water	4-Nitrophenol	44,300.000	2000		10000	ug/L
SSTDICV040	ICVBF042324	Water	Acenaphthene	41,400.000	810		5000	ug/L
SSTDICV040	ICVBF042324	Water	Acenaphthylene	44,000.000	1000		5000	ug/L
SSTDICV040	ICVBF042324	Water	Acetophenone	43,700.000	1100		5000	ug/L
SSTDICV040	ICVBF042324	Water	Aniline	42,600.000	1600		5000	ug/L

Hit Summary Sheet SW-846

SDG No.: BF042324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF042324	Water	Anthracene	41,500.000		1100	5000	ug/L
SSTDICV040	ICVBF042324	Water	Atrazine	43,100.000		1300	5000	ug/L
SSTDICV040	ICVBF042324	Water	Azobenzene	40,900.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzaldehyde	43,400.000		4000	10000	ug/L
SSTDICV040	ICVBF042324	Water	Benzidine	55,100.000		4100	10000	ug/L
SSTDICV040	ICVBF042324	Water	Benzo(a)anthracene	42,700.000		940	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzo(a)pyrene	40,600.000		1700	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzo(b)fluoranthene	46,300.000		1100	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzo(g,h,i)perylene	44,300.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzo(k)fluoranthene	42,600.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Benzoic acid	46,400.000		5500	10000	ug/L
SSTDICV040	ICVBF042324	Water	Benzyl Alcohol	43,400.000		1600	10000	ug/L
SSTDICV040	ICVBF042324	Water	bis(2-Chloroethoxy)methane	42,500.000		1000	5000	ug/L
SSTDICV040	ICVBF042324	Water	bis(2-Chloroethyl)ether	43,900.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Bis(2-ethylhexyl)phthalate	44,700.000		1900	5000	ug/L
SSTDICV040	ICVBF042324	Water	Butylbenzylphthalate	44,900.000		2100	5000	ug/L
SSTDICV040	ICVBF042324	Water	Caprolactam	43,600.000		1700	10000	ug/L
SSTDICV040	ICVBF042324	Water	Carbazole	42,000.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Chrysene	41,000.000		860	5000	ug/L
SSTDICV040	ICVBF042324	Water	Di-n-butylphthalate	41,500.000		1500	5000	ug/L
SSTDICV040	ICVBF042324	Water	Di-n-octyl phthalate	43,000.000		2500	10000	ug/L
SSTDICV040	ICVBF042324	Water	Dibenzo(a,h)anthracene	44,600.000		1200	5000	ug/L
SSTDICV040	ICVBF042324	Water	Dibenzofuran	41,400.000		930	5000	ug/L
SSTDICV040	ICVBF042324	Water	Diethylphthalate	40,800.000		1000	5000	ug/L
SSTDICV040	ICVBF042324	Water	Dimethylphthalate	40,700.000		930	5000	ug/L
SSTDICV040	ICVBF042324	Water	Fluoranthene	41,400.000		1300	5000	ug/L
SSTDICV040	ICVBF042324	Water	Fluorene	41,300.000		960	5000	ug/L
SSTDICV040	ICVBF042324	Water	Hexachlorobenzene	43,700.000		1100	5000	ug/L
SSTDICV040	ICVBF042324	Water	Hexachlorobutadiene	43,400.000		1300	5000	ug/L
SSTDICV040	ICVBF042324	Water	Hexachlorocyclopentadiene	45,400.000		5000	10000	ug/L
SSTDICV040	ICVBF042324	Water	Hexachloroethane	46,200.000		1000	5000	ug/L
SSTDICV040	ICVBF042324	Water	Indeno(1,2,3-cd)pyrene	44,900.000		1000	5000	ug/L
SSTDICV040	ICVBF042324	Water	Isophorone	43,700.000		1100	5000	ug/L
SSTDICV040	ICVBF042324	Water	n-Nitroso-di-n-propylamine	42,400.000		1500	2500	ug/L
SSTDICV040	ICVBF042324	Water	n-Nitrosodimethylamine	42,700.000		1000	10000	ug/L
SSTDICV040	ICVBF042324	Water	n-Nitrosodiphenylamine	41,400.000		890	5000	ug/L
SSTDICV040	ICVBF042324	Water	Naphthalene	42,600.000		1000	5000	ug/L
SSTDICV040	ICVBF042324	Water	Nitrobenzene	43,400.000		1300	5000	ug/L
SSTDICV040	ICVBF042324	Water	Pentachlorophenol	38,100.000		1900	10000	ug/L
SSTDICV040	ICVBF042324	Water	Phenanthrene	41,600.000		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.: BF042324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF042324	Water	Phenol	45,000.000		930	5000	ug/L
SSTDICV040	ICVBF042324	Water	Pyrene	42,800.000		1100	5000	ug/L
SSTDICV040	ICVBF042324	Water	Pyridine	38,700.000		1600	5000	ug/L
SSTDICV040	ICVBF042324	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	88,500.000		2700	10000	ug/L
SSTDICV040	ICVBF042324	Water	Total PAH	683,600.000		17360	80000	ug/L
Total Svoc :						4,217,300.00		
Total Concentration:						4,217,300.00		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF042324 SAS No.: BF042324 SDG No.: BF042324
Instrument ID: _____ Calibration Date(s): 4/23/2024 : _____
Calibration Time(s): 17:12 _____

LAB FILE ID:		RRF2.5 = BF137698.D			RRF005 = BF137699.D		RRF010 = BF137700.D	
		RRF020 = BF137701.D			RRF040 = BF137702.D		RRF050 = BF137703.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.746	0.749	0.768	0.707	0.727	0.733	3.2
Pyridine		1.578	1.606	1.650	1.525	1.550	1.571	3.0
2-Fluorophenol		1.440	1.412	1.426	1.250	1.257	1.317	8.1
Benzaldehyde		1.088	1.072	1.032	0.832	0.815	0.938	14.9
Aniline		2.127	2.152	2.195	2.002	2.046	2.081	3.8
Phenol-d6		1.792	1.798	1.824	1.606	1.614	1.672	7.9
Phenol		1.759	1.769	1.813	1.603	1.620	1.670	6.5
bis(2-Chloroethyl)ether		1.457	1.437	1.459	1.315	1.311	1.362	6.4
2-Chlorophenol		1.439	1.474	1.514	1.319	1.321	1.374	7.5
1,2-Dichlorobenzene		1.477	1.462	1.489	1.294	1.301	1.351	9.2
1,3-Dichlorobenzene		1.547	1.540	1.551	1.383	1.390	1.441	7.1
1,4-Dichlorobenzene		1.565	1.559	1.573	1.389	1.399	1.451	7.8
Benzyl Alcohol		1.280	1.280	1.319	1.220	1.250	1.251	4.1
2-Methylphenol		1.273	1.272	1.298	1.177	1.190	1.221	5.0
2,2-oxybis(1-Chloropropane)		2.188	2.189	2.247	2.031	2.047	2.095	5.6
Acetophenone		0.539	0.526	0.531	0.462	0.467	0.489	8.6
3+4-Methylphenols		1.675	1.686	1.736	1.540	1.525	1.577	8.1
n-Nitroso-di-n-propylamine	1.141	1.149	1.146	1.164	1.021	1.032	1.081	7.1
Nitrobenzene-d5		0.382	0.387	0.405	0.360	0.372	0.377	4.5
Hexachloroethane		0.521	0.539	0.556	0.495	0.505	0.514	5.3
Nitrobenzene		0.380	0.392	0.408	0.366	0.376	0.381	4.3
Isophorone		0.720	0.716	0.738	0.659	0.691	0.700	4.0
2-Nitrophenol		0.136	0.153	0.176	0.166	0.178	0.167	10.2
2,4-Dimethylphenol		0.370	0.353	0.354	0.313	0.327	0.337	6.6
bis(2-Chloroethoxy)methane		0.447	0.451	0.461	0.404	0.415	0.427	6.0
2,4-Dichlorophenol		0.299	0.302	0.316	0.281	0.292	0.295	4.3
1,2,4-Trichlorobenzene		0.315	0.316	0.323	0.285	0.294	0.301	5.6
Benzoic acid			0.162	0.206	0.210	0.230	0.213	13.3
Naphthalene		1.126	1.109	1.128	0.964	0.980	1.021	9.7
4-Chloroaniline		0.459	0.460	0.471	0.409	0.417	0.432	7.2
Hexachlorobutadiene		0.184	0.191	0.195	0.173	0.177	0.180	5.6
Caprolactam		0.096	0.096	0.099	0.091	0.094	0.095	2.6
4-Chloro-3-methylphenol		0.319	0.326	0.335	0.299	0.306	0.313	4.4
2-Methylnaphthalene		0.773	0.765	0.775	0.656	0.671	0.700	9.9
Hexachlorocyclopentadiene		0.262	0.286	0.318	0.304	0.323	0.307	8.3
2,4,6-Trichlorophenol		0.389	0.395	0.411	0.373	0.379	0.385	4.4

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.: BF042324 SAS No.: BF042324 SDG No.: BF042324
Instrument ID: _____ Calibration Date(s): 4/23/2024 : _____
Calibration Time(s): 17:12 _____

LAB FILE ID:		RRF2.5 = BF137698.D		RRF005 = BF137699.D		RRF010 = BF137700.D		
		RRF020 = BF137701.D		RRF040 = BF137702.D		RRF050 = BF137703.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.527	1.512	1.483	1.190	1.169	1.339	13.9
2,4,5-Trichlorophenol		0.444	0.453	0.480	0.417	0.430	0.441	4.9
1,1-Biphenyl		1.605	1.600	1.612	1.377	1.380	1.455	10.1
2-Chloronaphthalene		1.191	1.201	1.227	1.058	1.078	1.122	7.4
2-Nitroaniline		0.292	0.324	0.364	0.337	0.356	0.342	7.8
Dimethylphthalate		1.518	1.483	1.512	1.292	1.326	1.393	7.6
Acenaphthylene		1.892	1.888	1.931	1.655	1.667	1.749	8.6
2,6-Dinitrotoluene		0.269	0.293	0.314	0.286	0.299	0.294	5.1
3-Nitroaniline		0.312	0.326	0.349	0.324	0.333	0.330	3.8
Acenaphthene		1.233	1.210	1.247	1.059	1.083	1.133	8.4
2,4-Dinitrophenol			0.094	0.124	0.130	0.147	0.135	18.0
4-Nitrophenol		0.235	0.253	0.275	0.254	0.258	0.257	4.8
Dibenzofuran		1.836	1.834	1.831	1.553	1.566	1.660	10.2
2,4-Dinitrotoluene		0.304	0.353	0.403	0.365	0.388	0.370	9.2
Diethylphthalate		1.474	1.467	1.486	1.245	1.258	1.340	9.7
4-Chlorophenyl-phenylether		0.703	0.702	0.713	0.593	0.608	0.641	9.8
Fluorene		1.473	1.434	1.452	1.202	1.214	1.297	11.6
4-Nitroaniline		0.284	0.309	0.345	0.308	0.317	0.314	6.0
4,6-Dinitro-2-methylphenol			0.086	0.111	0.112	0.123	0.115	13.8
n-Nitrosodiphenylamine		0.718	0.722	0.739	0.638	0.657	0.677	7.3
Azobenzene		1.494	1.495	1.514	1.303	1.299	1.373	9.0
2,4,6-Tribromophenol		0.213	0.214	0.221	0.187	0.193	0.202	6.9
4-Bromophenyl-phenylether		0.240	0.241	0.248	0.217	0.229	0.232	5.2
Hexachlorobenzene		0.238	0.233	0.240	0.212	0.221	0.226	5.3
Atrazine		0.221	0.211	0.214	0.177	0.169	0.187	14.9
Pentachlorophenol		0.167	0.173	0.185	0.164	0.169	0.170	4.9
Phenanthrene		1.188	1.163	1.168	0.987	1.000	1.059	10.7
Anthracene		1.208	1.193	1.199	1.014	1.026	1.084	10.5
Carbazole		1.090	1.061	1.077	0.926	0.937	0.982	9.4
Di-n-butylphthalate		1.321	1.310	1.366	1.113	1.130	1.198	11.0
Fluoranthene		1.243	1.234	1.239	1.040	1.054	1.113	11.2
Benzidine		0.563	0.623	0.467	0.438	0.365	0.467	20.5
Pyrene		1.649	1.684	1.724	1.536	1.589	1.642	3.8
Terphenyl-d14		1.347	1.337	1.342	1.130	1.155	1.243	7.7
Butylbenzylphthalate		0.497	0.535	0.611	0.562	0.604	0.582	9.1
3,3-Dichlorobenzidine		0.459	0.467	0.483	0.411	0.416	0.432	9.2

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.: BF042324 SAS No.: BF042324 SDG No.: BF042324
Instrument ID: _____ Calibration Date(s): 4/23/2024 : _____
Calibration Time(s): 17:12 _____

LAB FILE ID:		RRF2.5 = BF137698.D			RRF005 = BF137699.D		RRF010 = BF137700.D	
		RRF020 = BF137701.D			RRF040 = BF137702.D		RRF050 = BF137703.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.454	1.458	1.483	1.326	1.348	1.395	5.1
Chrysene		1.373	1.369	1.410	1.231	1.258	1.303	6.1
Bis(2-ethylhexyl)phthalate		0.790	0.837	0.961	0.853	0.906	0.879	6.6
Di-n-octyl phthalate		1.237	1.223	1.449	1.321	1.341	1.321	5.8
Benzo(b)fluoranthene		1.224	1.304	1.385	1.271	1.284	1.280	4.3
Benzo(k)fluoranthene		1.268	1.267	1.402	1.220	1.260	1.258	6.7
Benzo(a)pyrene		1.120	1.143	1.222	1.124	1.155	1.148	3.3
Indeno(1,2,3-cd)pyrene		1.059	1.018	1.037	1.012	1.117	1.109	10.3
Dibenzo(a,h)anthracene		0.882	0.850	0.871	0.842	0.924	0.920	9.4
Benzo(g,h,i)perylene		0.833	0.792	0.810	0.815	0.913	0.895	13.2
1,2,4,5-Tetrachlorobenzene		0.578	0.588	0.591	0.520	0.529	0.548	6.7
1,4-Dioxane		0.592	0.604	0.627	0.567	0.583	0.590	3.8
2,3,4,6-Tetrachlorophenol		0.359	0.361	0.374	0.323	0.329	0.341	6.8
1-Methylnaphthalene		0.723	0.720	0.727	0.612	0.622	0.655	10.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF042324 SAS No.: BF042324 SDG NO.: BF042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BF137702.D Time Analyzed: 21:30

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	305832	7.063	1.23021e+01	8.35	677967	10.12
UPPER LIMIT	611664	7.563	2460420	8.851	1355934	10.616
LOWER LIMIT	152916	6.563	615105	7.851	338983.5	9.616
EPA SAMPLE NO.						
01 ICVBF042324	263588	7.06	1.08057e	8.35	614301	10.11
02 PB160393BL	343111	7.06	1.37964e	8.35	790124	10.11

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.: BF042324 SAS No.: BF042324 SDG NO.: BF042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BF137702.D Time Analyzed: 21:30

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	305832	7.063	1.23021e+01	8.35	677967	10.12
UPPER LIMIT	611664	7.563	2460420	8.851	1355934	10.616
LOWER LIMIT	152916	6.563	615105	7.851	338983.5	9.616
EPA SAMPLE NO.						
01 ICVBF042324	263588	7.06	1.08057e	8.35	614301	10.11
02 PB160393BL	343111	7.06	1.37964e	8.35	790124	10.11

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.: BF042324 SAS No.: BF042324 SDG NO.: BF042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BF137702.D Time Analyzed: 21:30

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	1.14297e+0	11.604	792945	14.257	644418	15.833
UPPER LIMIT	2285940	12.104	1585890	14.757	1288836	16.333
LOWER LIMIT	571485	11.104	396472.5	13.757	322209	15.333
EPA SAMPLE NO.						
01 ICVBF042324	1.04386	11.60	699179	14.26	545960	15.83
02 PB160393BL	1.41561	11.60	1.10705e+	14.25	999471	15.83

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.: BF042324 SAS No.: BF042324 SDG NO.: BF042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BF137702.D Time Analyzed: 21:30

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	1.14297e+04	11.604	792945	14.257	644418	15.833
UPPER LIMIT	2285940	12.104	1585890	14.757	1288836	16.333
LOWER LIMIT	571485	11.104	396472.5	13.757	322209	15.333
EPA SAMPLE NO.						
01 ICVBF042324	1.04386	11.60	699179	14.26	545960	15.83
02 PB160393BL	1.41561	11.60	1.10705e+	14.25	999471	15.83

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: _____

Client: _____

Analytical Method: _____ DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Low	Limits		RPD
								Qual	Qual		High	High	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBF042324

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF042324

SAS No.: BF042324 SDG NO.: BF042324

Lab File ID: BF137706.D

Lab Sample ID: SSTDICV040

Instrument ID: BNA_F

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 04/23/2024

Level: (low/med) LOW

Time Analyzed: 21:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF042324	SSTDICV040	BF137706.D	04/23/2024

COMMENTS: _____



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160393BL

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BF042324

SAS No.: BF042324 SDG NO.: BF042324

Lab File ID: BF137707.D

Lab Sample ID: PB160393BL

Instrument ID: BNA_F

Date Extracted: 04/19/2024

Matrix: (soil/water) Solid

Date Analyzed: 04/23/2024

Level: (low/med) LOW

Time Analyzed: 22:34

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.: BF042324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBF042324	BF137706.D	2-Fluorophenol	150	82,690.00	55127	*	10	139
			Phenol-d6	150	81,960.00	54640	*	10	134
			Nitrobenzene-d5	100	80,296.00	80296	*	49	133
			2-Fluorobiphenyl	100	73,408.00	73408	*	52	132
			2,4,6-Tribromophenol	150	81,547.00	54365	*	32	145
			Terphenyl-d14	100	78,799.00	78799	*	36	145



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Surrogate Summary

SW-846

SDG No.: BF042324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160393BL	PB160393BL	BF137707.D	2-Fluorophenol	150	113.70	76		18	112
			Phenol-d6	150	111.26	74		15	107
			Nitrobenzene-d5	100	78.08	78		18	107
			2-Fluorobiphenyl	100	72.26	72		20	109
			2,4,6-Tribromophenol	150	116.64	78		10	110
			Terphenyl-d14	100	67.39	67		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BF042324

Lab Code: CHEM

SAS No.: BF042324

SDG NO.: BF042324

Lab File ID: BF137697.D

DFTPP Injection Date: 04/23/2024

Instrument ID: BNA_F

DFTPP Injection Time: 16:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.3
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	3.2
441	Present, but less than mass 443	10.7
442	Greater than 50% of mass 198	66.6
443	15.0 - 24.0% of mass 442	13.2 (19.9) 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	BF137698.D	04/23/2024	17:12
SSTDICC005	SSTDICC005	BF137699.D	04/23/2024	17:44
SSTDICC010	SSTDICC010	BF137700.D	04/23/2024	18:17
SSTDICC020	SSTDICC020	BF137701.D	04/23/2024	18:49
SSTDICCC040	SSTDICCC040	BF137702.D	04/23/2024	19:22
SSTDICC050	SSTDICC050	BF137703.D	04/23/2024	19:54
SSTDICC060	SSTDICC060	BF137704.D	04/23/2024	20:26
SSTDICC080	SSTDICC080	BF137705.D	04/23/2024	20:59
ICVBF042324	SSTDICV040	BF137706.D	04/23/2024	21:30
PB160393BL	PB160393BL	BF137707.D	04/23/2024	22:34