

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG No.: BF032624

Instrument ID: BNA_F Calibration Date/Time: 3/26/2024 1:17:01

Lab File ID: BF137691.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	0.732	0.703		-3.962	
Pyridine	1.630	1.558		-4.417	
2-Fluorophenol	1.285	1.216		-5.37	
Benzaldehyde	0.860	0.791		-8.023	
Aniline	2.096	2.027		-3.292	
Phenol-d6	1.593	1.527		-4.143	
Phenol	1.771	1.688		-4.687	20.0
bis(2-Chloroethyl)ether	1.288	1.221		-5.202	
2-Chlorophenol	1.296	1.238		-4.475	
1,2-Dichlorobenzene	1.338	1.277		-4.559	
1,3-Dichlorobenzene	1.438	1.371		-4.659	
1,4-Dichlorobenzene	1.442	1.375		-4.646	20.0
Benzyl Alcohol	1.163	1.133		-2.58	
2-Methylphenol	1.208	1.158		-4.139	
2,2-oxybis(1-Chloropropane)	2.042	1.960		-4.016	
Acetophenone	0.462	0.430		-6.926	
3+4-Methylphenols	1.466	1.351		-7.844	
n-Nitroso-di-n-propylamine	1.029	0.958	0.050	-6.9	
Nitrobenzene-d5	0.303	0.303		0.0	
Hexachloroethane	0.462	0.444		-3.896	
Nitrobenzene	0.317	0.334		5.363	
Isophorone	0.686	0.656		-4.373	
2-Nitrophenol	0.115	0.124		7.826	20.0
2,4-Dimethylphenol	0.314	0.308		-1.911	
bis(2-Chloroethoxy)methane	0.409	0.393		-3.912	
2,4-Dichlorophenol	0.292	0.286		-2.055	20.0
1,2,4-Trichlorobenzene	0.300	0.289		-3.667	
Benzoic acid	0.176	0.173		-1.705	
Naphthalene	0.991	0.934		-5.752	
4-Chloroaniline	0.428	0.410		-4.206	
Hexachlorobutadiene	0.177	0.169		-4.52	20.0
Caprolactam	0.095	0.094		-1.053	
4-Chloro-3-methylphenol	0.307	0.301		-1.954	20.0
2-Methylnaphthalene	0.681	0.648		-4.846	
Hexachlorocyclopentadiene	0.257	0.263	0.050	2.335	
2,4,6-Trichlorophenol	0.360	0.357		-0.833	20.0
2-Fluorobiphenyl	1.186	1.057		-10.877	
2,4,5-Trichlorophenol	0.407	0.399		-1.966	
1,1-Biphenyl	1.410	1.322		-6.241	
2-Chloronaphthalene	1.091	1.038		-4.858	
2-Nitroaniline	0.250	0.280		12.0	

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dimethylphthalate	1.346	1.282		-4.755	
Acenaphthylene	1.755	1.664		-5.185	
2,6-Dinitrotoluene	0.217	0.242		11.521	
3-Nitroaniline	0.257	0.286		11.284	
Acenaphthene	1.088	1.021		-6.158	20.0
2,4-Dinitrophenol	0.078	0.076	0.050	-2.564	
4-Nitrophenol	0.217	0.219	0.050	0.922	
Dibenzofuran	1.618	1.521		-5.995	
2,4-Dinitrotoluene	0.253	0.287		13.439	
Diethylphthalate	1.296	1.233		-4.861	
4-Chlorophenyl-phenylether	0.583	0.503		-13.722	
Fluorene	1.215	1.045		-13.992	
4-Nitroaniline	0.250	0.270		8.0	
4,6-Dinitro-2-methylphenol	0.069	0.067		-2.899	
n-Nitrosodiphenylamine	0.638	0.601		-5.799	20.0
Azobenzene	1.293	1.218		-5.8	
2,4,6-Tribromophenol	0.188	0.183		-2.66	
4-Bromophenyl-phenylether	0.225	0.215		-4.444	
Hexachlorobenzene	0.232	0.221		-4.741	
Atrazine	0.189	0.180		-4.762	
Pentachlorophenol	0.157	0.162		3.185	20.0
Phenanthrene	1.039	0.969		-6.737	
Anthracene	1.070	0.994		-7.103	
Carbazole	0.954	0.886		-7.128	
Di-n-butylphthalate	1.107	1.057		-4.517	
Fluoranthene	1.072	0.953		-11.101	20.0
Benzidine	0.460	0.559		21.522	
Pyrene	1.777	1.818		2.307	
Terphenyl-d14	1.307	1.289		-1.377	
Butylbenzylphthalate	0.574	0.606		5.575	
3,3-Dichlorobenzidine	0.444	0.461		3.829	
Benzo (a) anthracene	1.385	1.351		-2.455	
Chrysene	1.364	1.327		-2.713	
Bis (2-ethylhexyl) phthalate	0.672	0.696		3.571	
Di-n-octyl phthalate	1.145	1.176		2.707	20.0
Benzo (b) fluoranthene	1.179	1.121		-4.919	
Benzo (k) fluoranthene	1.177	1.115		-5.268	
Benzo (a) pyrene	1.112	1.075		-3.327	20.0
Indeno (1,2,3-cd) pyrene	1.290	1.334		3.411	
Dibenzo (a,h) anthracene	1.062	1.095		3.107	
Benzo (g,h,i) perylene	1.077	1.112		3.25	



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SEMIVOLATILE CONTINUING CALIBRATION CHECK

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Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG No.: BF032624
Instrument ID: BNA_F Calibration Date/Time: 3/26/2024 1:17:01
Lab File ID: BF137691.D Init. Calib. Date(s): _____
EPA Sample No.: SSTDICCC040 Init. Calib. Time(s): _____
GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	<u>RRF</u>	RRF040	MIN RRF	%D	MAX%D
1,2,4,5-Tetrachlorobenzene	0.524	0.494		-5.725	
1,4-Dioxane	0.595	0.566		-4.874	20.0
2,3,4,6-Tetrachlorophenol	0.324	0.321		-0.926	
1-Methylnaphthalene	0.638	0.605		-5.172	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF032624			SDG No.:	BF032624		
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
BF137695.D	1		3/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	38500		1000	8000	10000	ug/L
110-86-1	Pyridine	38600		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	42400		4000	8000	10000	ug/L
62-53-3	Aniline	38300		1600	4000	5000	ug/L
108-95-2	Phenol	38700		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38400		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	38700		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	37700		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38300		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	38100		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	38100		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	38800		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37800		1400	4000	5000	ug/L
98-86-2	Acetophenone	37100		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	36600		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37300		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40100		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	44600		1300	4000	5000	ug/L
78-59-1	Isophorone	38200		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	44400		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	38100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	38300		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	39800		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39400		1100	4000	5000	ug/L
65-85-0	Benzoic acid	43700		5500	8000	10000	ug/L
91-20-3	Naphthalene	37500		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	38200		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	38900		1300	4000	5000	ug/L
105-60-2	Caprolactam	39600		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	39300		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	37700		1100	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF032624			SDG No.:	BF032624		
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
BF137695.D	1		3/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	43600		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	40300		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39800		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	36800		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	37400		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43600		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	37400		930	4000	5000	ug/L
208-96-8	Acenaphthylene	37400		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	42700		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42200		1400	4000	5000	ug/L
83-32-9	Acenaphthene	37600		810	4000	5000	ug/L
Total PAH	Total PAH	609700		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	47600		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	42400		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	37200		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	44400		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	87100		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	37700		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40100		980	4000	5000	ug/L
86-73-7	Fluorene	39100		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	42800		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44500		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	37300		890	4000	5000	ug/L
103-33-3	Azobenzene	37300		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	38300		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	37600		1100	4000	5000	ug/L
1912-24-9	Atrazine	38200		1300	4000	5000	ug/L
87-86-5	Pentachlorophenol	43000		1900	8000	10000	ug/L
85-01-8	Phenanthrene	36400		890	4000	5000	ug/L
120-12-7	Anthracene	36700		1100	4000	5000	ug/L
86-74-8	Carbazole	37000		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	37400		1500	4000	5000	ug/L
206-44-0	Fluoranthene	35100		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF032624			SDG No.:	BF032624		
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
BF137695.D	1		3/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	48700		4100	8000	10000	ug/L
129-00-0	Pyrene	40300		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	40500		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	40900		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	38200		940	4000	5000	ug/L
218-01-9	Chrysene	39100		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41500		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	38500		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	37300		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	37300		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	38100		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	39900		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	40000		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	39700		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37100		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	38200		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40200		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	37700		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	75454	*	10-139		50303	SPK: -150
13127-88-3	Phenol-d6	77095	*	10-134		51397	SPK: -150
4165-60-0	Nitrobenzene-d5	89104	*	49-133		89104	SPK: -100
321-60-8	2-Fluorobiphenyl	76116	*	52-132		76116	SPK: -100
118-79-6	2,4,6-Tribromophenol	80885	*	32-145		53923	SPK: -150
1718-51-0	Terphenyl-d14	77559	*	36-145		77559	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	299733	6.787				
1146-65-2	Naphthalene-d8	1170278	8.069				
15067-26-2	Acenaphthene-d10	675849	9.822				
1517-22-2	Phenanthrene-d10	1170385	11.304				
1719-03-5	Chrysene-d12	625656	13.945				
1520-96-3	Perylene-d12	669170	15.368				



Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBF032624	SDG No.:	BF032624
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:	
Injection Volume :		Decanted :	
		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137695.D	1		3/26/2024 12:00:00 AM	

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

Client:		Date Collected:	3/26/2024 12:00:00 AM
Project:		Date Received:	3/26/2024 12:00:00 AM
Client Sample ID:	PB159773BL	SDG No.:	BF032624
Lab Sample ID:	PB159773BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137696.D	1	3/26/2024 12:00:00 AM	3/26/2024 12:00:00 AM	PB159773

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	270	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	130	170	ug/Kg
108-95-2	Phenol	82.9	U	82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86	U	86	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	130	170	ug/Kg
100-51-6	Benzyl Alcohol	83	U	83	270	330	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	130	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	83	U	83	130	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	130	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	130	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/26/2024 12:00:00 AM
Project:		Date Received:	3/26/2024 12:00:00 AM
Client Sample ID:	PB159773BL	SDG No.:	BF032624
Lab Sample ID:	PB159773BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137696.D	1	3/26/2024 12:00:00 AM	3/26/2024 12:00:00 AM	PB159773

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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	87.4	U	87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	95	U	95	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	86.5	U	86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	130	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	130	170	ug/Kg
Total PAH	Total PAH	1325.1	U	1325.1	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	84.4	U	84.4	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	69.4	U	169.4	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	130	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	130	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	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	81.6	U	81.6	130	170	ug/Kg
103-33-3	Azobenzene	79.6	U	79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	85	U	85	130	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	130	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	84	U	84	130	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	130	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	130	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/26/2024 12:00:00 AM
Project:		Date Received:	3/26/2024 12:00:00 AM
Client Sample ID:	PB159773BL	SDG No.:	BF032624
Lab Sample ID:	PB159773BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137696.D	1	3/26/2024 12:00:00 AM	3/26/2024 12:00:00 AM	PB159773

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	83	U	83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	130	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91	U	91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	93	U	93	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	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	83.2	U	83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	114.851		18-112		77	SPK: -150
13127-88-3	Phenol-d6	113.785		15-107		76	SPK: -150
4165-60-0	Nitrobenzene-d5	92.227		18-107		92	SPK: -100
321-60-8	2-Fluorobiphenyl	90.702		20-109		91	SPK: -100
118-79-6	2,4,6-Tribromophenol	124.987		10-110		83	SPK: -150
1718-51-0	Terphenyl-d14	61.62		14-112		62	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	278705	6.781				
1146-65-2	Naphthalene-d8	1089384	8.063				
15067-26-2	Acenaphthene-d10	623957	9.816				
1517-22-2	Phenanthrene-d10	1137975	11.304				
1719-03-5	Chrysene-d12	922039	13.939				
1520-96-3	Perylene-d12	805661	15.368				



Report of Analysis

Client:		Date Collected:	3/26/2024 12:00:00 AM
Project:		Date Received:	3/26/2024 12:00:00 AM
Client Sample ID:	PB159773BL	SDG No.:	BF032624
Lab Sample ID:	PB159773BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137696.D	1	3/26/2024 12:00:00 AM	3/26/2024 12:00:00 AM	PB159773

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	160	J			16.68	

Hit Summary Sheet

SW-846

SDG No.: BF032624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	ICVBF032624							
SSTDICV040	ICVBF032624	Water	1,1-Biphenyl	36,800.000	910		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,2,4,5-Tetrachlorobenzene	37,100.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,2,4-Trichlorobenzene	39,400.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,2-Dichlorobenzene	37,700.000	880		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,3-Dichlorobenzene	38,300.000	800		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,4-Dichlorobenzene	38,100.000	840		5000	ug/L
SSTDICV040	ICVBF032624	Water	1,4-Dioxane	38,200.000	1300		5000	ug/L
SSTDICV040	ICVBF032624	Water	1-Methylnaphthalene	37,700.000	860		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,2-oxybis(1-Chloropropane)	37,800.000	1400		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,3,4,6-Tetrachlorophenol	40,200.000	790		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4,5-Trichlorophenol	39,800.000	1000		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4,6-Trichlorophenol	40,300.000	890		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4-Dichlorophenol	39,800.000	880		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4-Dimethylphenol	38,100.000	1500		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4-Dinitrophenol	47,600.000	6400		10000	ug/L
SSTDICV040	ICVBF032624	Water	2,4-Dinitrotoluene	44,400.000	1500		5000	ug/L
SSTDICV040	ICVBF032624	Water	2,6-Dinitrotoluene	42,700.000	1200		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Chloronaphthalene	37,400.000	970		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Chlorophenol	38,700.000	710		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Methylnaphthalene	37,700.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Methylphenol	38,800.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Nitroaniline	43,600.000	1400		5000	ug/L
SSTDICV040	ICVBF032624	Water	2-Nitrophenol	44,400.000	2000		5000	ug/L
SSTDICV040	ICVBF032624	Water	3+4-Methylphenols	36,600.000	1200		10000	ug/L
SSTDICV040	ICVBF032624	Water	3,3-Dichlorobenzidine	40,900.000	1300		10000	ug/L
SSTDICV040	ICVBF032624	Water	3-Nitroaniline	42,200.000	1400		5000	ug/L
SSTDICV040	ICVBF032624	Water	4,6-Dinitro-2-methylphenol	44,500.000	3100		10000	ug/L
SSTDICV040	ICVBF032624	Water	4-Bromophenyl-phenylether	38,300.000	950		5000	ug/L
SSTDICV040	ICVBF032624	Water	4-Chloro-3-methylphenol	39,300.000	840		5000	ug/L
SSTDICV040	ICVBF032624	Water	4-Chloroaniline	38,200.000	1300		5000	ug/L
SSTDICV040	ICVBF032624	Water	4-Chlorophenyl-phenylether	40,100.000	980		5000	ug/L
SSTDICV040	ICVBF032624	Water	4-Nitroaniline	42,800.000	2000		5000	ug/L
SSTDICV040	ICVBF032624	Water	4-Nitrophenol	42,400.000	2000		10000	ug/L
SSTDICV040	ICVBF032624	Water	Acenaphthene	37,600.000	810		5000	ug/L
SSTDICV040	ICVBF032624	Water	Acenaphthylene	37,400.000	1000		5000	ug/L
SSTDICV040	ICVBF032624	Water	Acetophenone	37,100.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	Aniline	38,300.000	1600		5000	ug/L
SSTDICV040	ICVBF032624	Water	Anthracene	36,700.000	1100		5000	ug/L
SSTDICV040	ICVBF032624	Water	Atrazine	38,200.000	1300		5000	ug/L

Hit Summary Sheet

SW-846

SDG No.: BF032624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF032624	Water	Azobenzene	37,300.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzaldehyde	42,400.000		4000	10000	ug/L
SSTDICV040	ICVBF032624	Water	Benzidine	48,700.000		4100	10000	ug/L
SSTDICV040	ICVBF032624	Water	Benzo(a)anthracene	38,200.000		940	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzo(a)pyrene	38,100.000		1700	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzo(b)fluoranthene	37,300.000		1100	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzo(g,h,i)perylene	39,700.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzo(k)fluoranthene	37,300.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Benzoic acid	43,700.000		5500	10000	ug/L
SSTDICV040	ICVBF032624	Water	Benzyl Alcohol	38,100.000		1600	10000	ug/L
SSTDICV040	ICVBF032624	Water	bis(2-Chloroethoxy)methane	38,300.000		1000	5000	ug/L
SSTDICV040	ICVBF032624	Water	bis(2-Chloroethyl)ether	38,400.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Bis(2-ethylhexyl)phthalate	41,500.000		1900	5000	ug/L
SSTDICV040	ICVBF032624	Water	Butylbenzylphthalate	40,500.000		2100	5000	ug/L
SSTDICV040	ICVBF032624	Water	Caprolactam	39,600.000		1700	10000	ug/L
SSTDICV040	ICVBF032624	Water	Carbazole	37,000.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Chrysene	39,100.000		860	5000	ug/L
SSTDICV040	ICVBF032624	Water	Di-n-butylphthalate	37,400.000		1500	5000	ug/L
SSTDICV040	ICVBF032624	Water	Di-n-octyl phthalate	38,500.000		2500	10000	ug/L
SSTDICV040	ICVBF032624	Water	Dibenzo(a,h)anthracene	40,000.000		1200	5000	ug/L
SSTDICV040	ICVBF032624	Water	Dibenzofuran	37,200.000		930	5000	ug/L
SSTDICV040	ICVBF032624	Water	Diethylphthalate	37,700.000		1000	5000	ug/L
SSTDICV040	ICVBF032624	Water	Dimethylphthalate	37,400.000		930	5000	ug/L
SSTDICV040	ICVBF032624	Water	Fluoranthene	35,100.000		1300	5000	ug/L
SSTDICV040	ICVBF032624	Water	Fluorene	39,100.000		960	5000	ug/L
SSTDICV040	ICVBF032624	Water	Hexachlorobenzene	37,600.000		1100	5000	ug/L
SSTDICV040	ICVBF032624	Water	Hexachlorobutadiene	38,900.000		1300	5000	ug/L
SSTDICV040	ICVBF032624	Water	Hexachlorocyclopentadiene	43,600.000		5000	10000	ug/L
SSTDICV040	ICVBF032624	Water	Hexachloroethane	40,100.000		1000	5000	ug/L
SSTDICV040	ICVBF032624	Water	Indeno(1,2,3-cd)pyrene	39,900.000		1000	5000	ug/L
SSTDICV040	ICVBF032624	Water	Isophorone	38,200.000		1100	5000	ug/L
SSTDICV040	ICVBF032624	Water	n-Nitroso-di-n-propylamine	37,300.000		1500	2500	ug/L
SSTDICV040	ICVBF032624	Water	n-Nitrosodimethylamine	38,500.000		1000	10000	ug/L
SSTDICV040	ICVBF032624	Water	n-Nitrosodiphenylamine	37,300.000		890	5000	ug/L
SSTDICV040	ICVBF032624	Water	Naphthalene	37,500.000		1000	5000	ug/L
SSTDICV040	ICVBF032624	Water	Nitrobenzene	44,600.000		1300	5000	ug/L
SSTDICV040	ICVBF032624	Water	Pentachlorophenol	43,000.000		1900	10000	ug/L
SSTDICV040	ICVBF032624	Water	Phenanthrene	36,400.000		890	5000	ug/L
SSTDICV040	ICVBF032624	Water	Phenol	38,700.000		930	5000	ug/L
SSTDICV040	ICVBF032624	Water	Pyrene	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBF032624	Water	Pyridine	38,600.000		1600	5000	ug/L
SSTDICV040	ICVBF032624	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	87,100.000		2700	10000	ug/L



Hit Summary Sheet
SW-846

SDG No.: BF032624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF032624	Water	Total PAH	609,700.000		17360	80000	ug/L
			Total Svoc :	3,850,100.00				
			Total Concentration:	3,850,100.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG No.: BF032624
Instrument ID: _____ Calibration Date(s): 3/26/2024 : _____
Calibration Time(s): 15:03 _____

LAB FILE ID:		RRF2.5 = BF137687.D			RRF005 = BF137688.D		RRF010 = BF137689.D	
		RRF020 = BF137690.D			RRF040 = BF137691.D		RRF050 = BF137692.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.757	0.742	0.782	0.703	0.719	0.732	4.1
Pyridine		1.630	1.679	1.749	1.558	1.589	1.630	4.0
2-Fluorophenol		1.406	1.407	1.439	1.216	1.214	1.285	10.0
Benzaldehyde			1.011	1.014	0.791	0.754	0.860	16.4
Aniline		2.167	2.175	2.305	2.027	2.032	2.096	6.1
Phenol-d6		1.743	1.721	1.782	1.527	1.503	1.593	9.7
Phenol		1.906	1.917	1.993	1.688	1.688	1.771	9.4
bis(2-Chloroethyl)ether		1.390	1.380	1.429	1.221	1.229	1.288	8.5
2-Chlorophenol		1.382	1.400	1.472	1.238	1.242	1.296	9.5
1,2-Dichlorobenzene		1.513	1.481	1.534	1.277	1.253	1.338	12.7
1,3-Dichlorobenzene		1.534	1.570	1.623	1.371	1.353	1.438	9.5
1,4-Dichlorobenzene		1.565	1.571	1.608	1.375	1.367	1.442	9.5
Benzyl Alcohol		1.253	1.280	1.330	1.133	1.108	1.163	11.2
2-Methylphenol		1.243	1.267	1.320	1.158	1.173	1.208	5.8
2,2-oxybis(1-Chloropropane)		2.173	2.182	2.245	1.960	1.955	2.042	7.6
Acetophenone		0.531	0.522	0.523	0.430	0.431	0.462	13.3
3+4-Methylphenols		1.609	1.628	1.670	1.351	1.303	1.466	13.0
n-Nitroso-di-n-propylamine	1.114	1.109	1.117	1.116	0.958	0.951	1.029	9.0
Nitrobenzene-d5			0.240	0.303	0.303	0.322	0.303	10.9
Hexachloroethane		0.464	0.474	0.516	0.444	0.454	0.462	6.0
Nitrobenzene		0.241	0.277	0.341	0.334	0.344	0.317	13.3
Isophorone		0.702	0.711	0.724	0.656	0.676	0.686	3.9
2-Nitrophenol		0.057	0.071	0.100	0.124	0.143	0.115	35.0
2,4-Dimethylphenol		0.327	0.322	0.337	0.308	0.305	0.314	4.6
bis(2-Chloroethoxy)methane		0.435	0.433	0.446	0.393	0.397	0.409	6.9
2,4-Dichlorophenol		0.285	0.296	0.316	0.286	0.294	0.292	4.5
1,2,4-Trichlorobenzene		0.312	0.316	0.328	0.289	0.293	0.300	6.6
Benzoic acid			0.106	0.140	0.173	0.203	0.176	25.9
Naphthalene		1.120	1.103	1.107	0.934	0.943	0.991	11.9
4-Chloroaniline		0.457	0.459	0.471	0.410	0.413	0.428	7.9
Hexachlorobutadiene		0.187	0.190	0.194	0.169	0.173	0.177	7.3
Caprolactam		0.090	0.092	0.100	0.094	0.099	0.095	3.6
4-Chloro-3-methylphenol		0.300	0.317	0.332	0.301	0.305	0.307	4.6
2-Methylnaphthalene		0.771	0.766	0.763	0.648	0.642	0.681	12.6
Hexachlorocyclopentadiene		0.194	0.231	0.270	0.263	0.276	0.257	12.8
2,4,6-Trichlorophenol		0.338	0.370	0.392	0.357	0.363	0.360	5.0

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.: BF032624 SAS No.: BF032624 SDG No.: BF032624
Instrument ID: _____ Calibration Date(s): 3/26/2024 : _____
Calibration Time(s): 15:03 _____

LAB FILE ID:		RRF2.5 = BF137687.D			RRF005 = BF137688.D		RRF010 = BF137689.D	
		RRF020 = BF137690.D			RRF040 = BF137691.D		RRF050 = BF137692.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl			1.468	1.374	1.057	1.034	1.186	18.4
2,4,5-Trichlorophenol		0.373	0.423	0.446	0.399	0.410	0.407	5.8
1,1-Biphenyl		1.625	1.615	1.609	1.322	1.304	1.410	14.4
2-Chloronaphthalene		1.200	1.209	1.212	1.038	1.034	1.091	10.4
2-Nitroaniline		0.118	0.164	0.240	0.280	0.304	0.250	32.3
Dimethylphthalate		1.452	1.451	1.490	1.282	1.279	1.346	8.5
Acenaphthylene		1.970	1.959	1.987	1.664	1.663	1.755	12.3
2,6-Dinitrotoluene		0.103	0.157	0.224	0.242	0.262	0.217	29.3
3-Nitroaniline		0.133	0.194	0.268	0.286	0.301	0.257	26.3
Acenaphthene		1.214	1.213	1.206	1.021	1.022	1.088	11.0
2,4-Dinitrophenol			0.036	0.052	0.076	0.090	0.078	37.8
4-Nitrophenol			0.151	0.210	0.219	0.239	0.217	16.1
Dibenzofuran		1.835	1.858	1.824	1.521	1.517	1.618	13.5
2,4-Dinitrotoluene		0.114	0.166	0.251	0.287	0.318	0.253	32.6
Diethylphthalate		1.424	1.415	1.428	1.233	1.249	1.296	9.7
4-Chlorophenyl-phenylether		0.689	0.674	0.657	0.503	0.494	0.583	17.0
Fluorene		1.464	1.406	1.355	1.045	1.033	1.215	17.7
4-Nitroaniline		0.143	0.194	0.261	0.270	0.290	0.250	23.5
4,6-Dinitro-2-methylphenol			0.031	0.050	0.067	0.081	0.069	35.0
n-Nitrosodiphenylamine		0.700	0.704	0.712	0.601	0.605	0.638	10.4
Azobenzene		1.448	1.424	1.452	1.218	1.235	1.293	11.4
2,4,6-Tribromophenol		0.184	0.200	0.218	0.183	0.180	0.188	8.2
4-Bromophenyl-phenylether		0.236	0.240	0.252	0.215	0.219	0.225	8.1
Hexachlorobenzene		0.243	0.249	0.259	0.221	0.226	0.232	8.2
Atrazine		0.196	0.205	0.212	0.180	0.184	0.189	8.1
Pentachlorophenol		0.127	0.145	0.175	0.162	0.168	0.157	10.2
Phenanthrene		1.199	1.181	1.178	0.969	0.973	1.039	13.8
Anthracene		1.226	1.219	1.228	0.994	0.996	1.070	14.1
Carbazole		1.092	1.075	1.080	0.886	0.904	0.954	13.3
Di-n-butylphthalate		1.207	1.219	1.255	1.057	1.069	1.107	11.0
Fluoranthene		1.231	1.202	1.196	0.953	0.949	1.072	14.2
Benzidine		0.440	0.420	0.437	0.559	0.452	0.460	10.2
Pyrene		1.666	1.712	1.899	1.818	1.843	1.777	5.0
Terphenyl-d14		1.372	1.334	1.418	1.289	1.296	1.307	6.2
Butylbenzylphthalate		0.411	0.481	0.595	0.606	0.644	0.574	16.0
3,3-Dichlorobenzidine		0.396	0.412	0.460	0.461	0.463	0.444	6.4

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.: BF032624 SAS No.: BF032624 SDG No.: BF032624
Instrument ID: _____ Calibration Date(s): 3/26/2024 : _____
Calibration Time(s): 15:03 _____

LAB FILE ID:		RRF2.5 = BF137687.D			RRF005 = BF137688.D		RRF010 = BF137689.D	
		RRF020 = BF137690.D			RRF040 = BF137691.D		RRF050 = BF137692.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.434	1.441	1.505	1.351	1.356	1.385	5.7
Chrysene		1.397	1.375	1.425	1.327	1.364	1.364	2.9
Bis(2-ethylhexyl)phthalate		0.563	0.614	0.713	0.696	0.723	0.672	9.0
Di-n-octyl phthalate			0.773	0.983	1.176	1.231	1.145	19.9
Benzo(b)fluoranthene		1.262	1.279	1.246	1.121	1.119	1.179	7.5
Benzo(k)fluoranthene		1.312	1.292	1.309	1.115	1.148	1.177	10.9
Benzo(a)pyrene		1.131	1.152	1.193	1.075	1.105	1.112	4.8
Indeno(1,2,3-cd)pyrene		1.060	1.181	1.358	1.334	1.366	1.290	9.7
Dibenzo(a,h)anthracene		0.904	0.982	1.121	1.095	1.118	1.062	8.3
Benzo(g,h,i)perylene		0.893	0.976	1.108	1.112	1.138	1.077	9.7
1,2,4,5-Tetrachlorobenzene		0.589	0.585	0.588	0.494	0.493	0.524	11.8
1,4-Dioxane		0.620	0.616	0.640	0.566	0.575	0.595	5.1
2,3,4,6-Tetrachlorophenol		0.305	0.343	0.358	0.321	0.326	0.324	6.5
1-Methylnaphthalene		0.727	0.703	0.722	0.605	0.606	0.638	12.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG NO.: BF032624

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 26 2024 12:00AM

Lab File ID: BF137691.D Time Analyzed: 19:30

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	275805	6.787	1.08598e+01	8.07	616321	9.82
UPPER LIMIT	551610	7.287	2171960	8.569	1232642	10.322
LOWER LIMIT	137902.5	6.287	542990	7.569	308160.5	9.322
EPA SAMPLE NO.						
01 ICVBF032624	299733	6.79	1.17028e	8.07	675849	9.82
02 PB159773BL	278705	6.78	1.08938e	8.06	623957	9.82

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG NO.: BF032624

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 26 2024 12:00AM

Lab File ID: BF137691.D Time Analyzed: 19:30

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	275805	6.787	1.08598e+01	8.07	616321	9.82
UPPER LIMIT	551610	7.287	2171960	8.569	1232642	10.322
LOWER LIMIT	137902.5	6.287	542990	7.569	308160.5	9.322
EPA SAMPLE NO.						
01 ICVBF032624	299733	6.79	1.17028e	8.07	675849	9.82
02 PB159773BL	278705	6.78	1.08938e	8.06	623957	9.82

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG NO.: BF032624

EPA Sample No.: SSTDICCC040

Date Analyzed: Mar 26 2024 12:00AM

Lab File ID: BF137691.D

Time Analyzed: 19:30

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	1.05959e+04	11.304	557305	13.945	596170	15.374
UPPER LIMIT	2119180	11.804	1114610	14.445	1192340	15.874
LOWER LIMIT	529795	10.804	278652.5	13.445	298085	14.874
EPA SAMPLE NO.						
01 ICVBF032624	1.17039	11.30	625656	13.95	669170	15.37
02 PB159773BL	1.13798	11.30	922039	13.94	805661	15.37

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF032624 SAS No.: BF032624 SDG NO.: BF032624

EPA Sample No.: SSTDICCC040

Date Analyzed: Mar 26 2024 12:00AM

Lab File ID: BF137691.D

Time Analyzed: 19:30

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	1.05959e+04	11.304	557305	13.945	596170	15.374
UPPER LIMIT	2119180	11.804	1114610	14.445	1192340	15.874
LOWER LIMIT	529795	10.804	278652.5	13.445	298085	14.874
EPA SAMPLE NO.						
01 ICVBF032624	1.17039	11.30	625656	13.95	669170	15.37
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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.

ICVBF032624

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF032624SAS No.: BF032624 SDG NO.: BF032624Lab File ID: BF137695.DLab Sample ID: SSTDICV040Instrument ID: BNA_F

Date Extracted: _____

Matrix: (soil/water) WaterDate Analyzed: 03/26/2024Level: (low/med) LOWTime Analyzed: 19:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF032624	SSTDICV040	BF137695.D	03/26/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159773BL

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BF032624

SAS No.: BF032624 SDG NO.: BF032624

Lab File ID: BF137696.D

Lab Sample ID: PB159773BL

Instrument ID: BNA_F

Date Extracted: 03/26/2024

Matrix: (soil/water) Solid

Date Analyzed: 03/26/2024

Level: (low/med) LOW

Time Analyzed: 20:00

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

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

COMMENTS:



Surrogate Summary
SW-846

SDG No.: BF032624

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBF032624	BF137695.D	2-Fluorophenol	150	75,454.00	50303	*	10	139
			Phenol-d6	150	77,095.00	51397	*	10	134
			Nitrobenzene-d5	100	89,104.00	89104	*	49	133
			2-Fluorobiphenyl	100	76,116.00	76116	*	52	132
			2,4,6-Tribromophenol	150	80,885.00	53923	*	32	145
			Terphenyl-d14	100	77,559.00	77559	*	36	145



Surrogate Summary
SW-846

SDG No.: BF032624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB159773BL	PB159773BL	BF137696.D	2-Fluorophenol	150	114.85	77		18	112
			Phenol-d6	150	113.79	76		15	107
			Nitrobenzene-d5	100	92.23	92		18	107
			2-Fluorobiphenyl	100	90.70	91		20	109
			2,4,6-Tribromophenol	150	124.99	83		10	110
			Terphenyl-d14	100	61.62	62		14	112



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BF032624Lab Code: CHEMSAS No.: BF032624 SDG NO.: BF032624Lab File ID: BF137686.DDFTPP Injection Date: 03/26/2024Instrument ID: BNA_FDFTPP Injection Time: 14:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	32.4
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	43.6
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	6.7
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	91.2
443	15.0 - 24.0% of mass 442	18.5 (20.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF137687.D	03/26/2024	15:03
SSTDICC005	SSTDICC005	BF137688.D	03/26/2024	15:32
SSTDICC010	SSTDICC010	BF137689.D	03/26/2024	16:02
SSTDICC020	SSTDICC020	BF137690.D	03/26/2024	16:31
SSTDICCC040	SSTDICCC040	BF137691.D	03/26/2024	17:01
SSTDICC050	SSTDICC050	BF137692.D	03/26/2024	17:31
SSTDICC060	SSTDICC060	BF137693.D	03/26/2024	18:01
SSTDICC080	SSTDICC080	BF137694.D	03/26/2024	18:31
ICVBF032624	SSTDICV040	BF137695.D	03/26/2024	19:30
PB159773BL	PB159773BL	BF137696.D	03/26/2024	20:00