CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524

Instrument ID: BNA_F Calibration Date/Time: 6/5/2024 12: 13:12

Lab File ID: BF138121.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	0.647	0.646		-0.155	
Pyridine	1.318	1.306		-0.91	
2-Fluorophenol	1.174	1.161		-1.107	
Benzaldehyde	0.791	0.767		-3.034	
Aniline	1.505	1.499		-0.399	
Phenol-d6	1.485	1.470		-1.01	
Phenol	1.525	1.517		-0.525	20.0
bis(2-Chloroethyl)ether	1.223	1.213		-0.818	
2-Chlorophenol	1.270	1.269		-0.079	
1,2-Dichlorobenzene	1.375	1.371		-0.291	
1,3-Dichlorobenzene	1.455	1.447		-0.55	
1,4-Dichlorobenzene	1.465	1.451		-0.956	20.0
Benzyl Alcohol	1.051	1.062		1.047	
2-Methylphenol	1.028	1.015		-1.265	
2,2-oxybis(1-Chloropropane)	1.795	1.774		-1.17	
Acetophenone	0.460	0.456		-0.87	
3+4-Methylphenols	1.279	1.298		1.486	
n-Nitroso-di-n-propylamine	0.947	0.925	0.050	-2.323	
Nitrobenzene-d5	0.294	0.315		7.143	
Hexachloroethane	0.500	0.502		0.4	
Nitrobenzene	0.320	0.335		4.688	
Isophorone	0.648	0.637		-1.698	
2-Nitrophenol	0.108	0.116		7.407	20.0
2,4-Dimethylphenol	0.225	0.226		0.444	
bis(2-Chloroethoxy)methane	0.394	0.391		-0.761	
2,4-Dichlorophenol	0.271	0.280		3.321	20.0
1,2,4-Trichlorobenzene	0.327	0.325		-0.612	
Benzoic acid	0.148	0.137		-7.432	
Naphthalene	0.967	0.957		-1.034	
4-Chloroaniline	0.364	0.357		-1.923	
Hexachlorobutadiene	0.192	0.193		0.521	20.0
Caprolactam	0.091	0.091		0.0	
4-Chloro-3-methylphenol	0.278	0.281		1.079	20.0
2-Methylnaphthalene	0.652	0.647		-0.767	
Hexachlorocyclopentadiene	0.186	0.199	0.050	6.989	
2,4,6-Trichlorophenol	0.343	0.359		4.665	20.0
2-Fluorobiphenyl	1.144	1.124		-1.748	
2,4,5-Trichlorophenol	0.378	0.394		4.233	
1,1-Biphenyl	1.405	1.389		-1.139	

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Instrument ID: BNA_F Calibration Date/Time: 6/5/2024 12: 13:12

Lab File ID: BF138121.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	1.120	1.115		-0.446	
2-Nitroaniline	0.229	0.258		12.664	
Dimethylphthalate	1.257	1.247		-0.796	
Acenaphthylene	1.584	1.576		-0.505	
2,6-Dinitrotoluene	0.235	0.262		11.489	
3-Nitroaniline	0.240	0.263		9.583	
Acenaphthene	1.071	1.057		-1.307	20.0
2,4-Dinitrophenol	0.060	0.058	0.050	-3.333	
4-Nitrophenol	0.191	0.202	0.050	5.759	
Dibenzofuran	1.514	1.508		-0.396	
2,4-Dinitrotoluene	0.272	0.315		15.809	
Diethylphthalate	1.227	1.238		0.896	
4-Chlorophenyl-phenylether	0.611	0.607		-0.655	
Fluorene	1.203	1.205		0.166	
4-Nitroaniline	0.235	0.264		12.34	
4,6-Dinitro-2-methylphenol	0.063	0.061		-3.175	
n-Nitrosodiphenylamine	0.597	0.595		-0.335	20.0
Azobenzene	1.182	1.183		0.085	
2,4,6-Tribromophenol	0.192	0.209		8.854	
4-Bromophenyl-phenylether	0.228	0.228		0.0	
Hexachlorobenzene	0.265	0.261		-1.509	
Atrazine	0.192	0.191		-0.521	
Pentachlorophenol	0.142	0.156		9.859	20.0
Phenanthrene	0.963	0.956		-0.727	
Anthracene	0.960	0.945		-1.563	
Carbazole	0.878	0.869		-1.025	
Di-n-butylphthalate	1.032	1.035		0.291	
Fluoranthene	1.039	1.032		-0.674	20.0
Benzidine	0.206	0.278		34.951	
Pyrene	1.809	1.830		1.161	
Terphenyl-d14	1.337	1.296		-3.067	
Butylbenzylphthalate	0.597	0.652		9.213	
3,3-Dichlorobenzidine	0.320	0.322		0.625	
Benzo(a)anthracene	1.262	1.240		-1.743	
Chrysene	1.211	1.223		0.991	
Bis(2-ethylhexyl)phthalate	0.870	0.916		5.287	
Di-n-octyl phthalate	1.198	1.235		3.088	20.0
Benzo(b)fluoranthene	1.257	1.214		-3.421	
Benzo(k)fluoranthene	1.199	1.190		-0.751	

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Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524

Instrument ID: BNA_F Calibration Date/Time: 6/5/2024 12: 13:12

Lab File ID: BF138121.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	0.952	0.972		2.101	20.0
Indeno(1,2,3-cd)pyrene	0.940	1.076		14.468	
Dibenzo(a,h)anthracene	0.748	0.860		14.973	
Benzo(g,h,i)perylene	0.785	0.917		16.815	
1,2,4,5-Tetrachlorobenzene	0.565	0.568		0.531	
1,4-Dioxane	0.538	0.527		-2.045	20.0
2,3,4,6-Tetrachlorophenol	0.298	0.320		7.383	
1-Methylnaphthalene	0.639	0.639		0.0	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF060524			SDG No.:	BF060524
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
BF138125.D	1		6/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	39900		1000	8000	10000	ug/L
110-86-1	Pyridine	40100		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	48300		4000	8000	10000	ug/L
62-53-3	Aniline	40200		1600	4000	5000	ug/L
108-95-2	Phenol	41200		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39600		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	40700		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39400		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	39500		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39500		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	41400		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40500		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39100		1400	4000	5000	ug/L
98-86-2	Acetophenone	38300		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40800		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39100		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	41100		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	44700		1300	4000	5000	ug/L
78-59-1	Isophorone	39400		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	48100		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	41500		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39400		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	42200		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39800		1100	4000	5000	ug/L
65-85-0	Benzoic acid	50100		5500	8000	10000	ug/L
91-20-3	Naphthalene	38900		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	39700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	39800		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF060524			SDG No.:	BF060524
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
BF138125.D	1		6/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	40500		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	41300		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39000		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	41000		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	44100		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	42700		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	38400		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	39100		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43300		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39000		930	4000	5000	ug/L
208-96-8	Acenaphthylene	38600		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43200		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42900		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39200		810	4000	5000	ug/L
Total PAH	Total PAH	635100		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	48900		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	46200		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	38500		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 (mixtur	87600		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	38600		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38000		980	4000	5000	ug/L
86-73-7	Fluorene	38200		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	46500		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	46900		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40200		890	4000	5000	ug/L
103-33-3	Azobenzene	38700		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	41100		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	40100		1100	4000	5000	ug/L
1912-24-9	Atrazine	39200		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF060524			SDG No.:	BF060524
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
BF138125.D	1		6/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	47900		1900	8000	10000	ug/L
85-01-8	Phenanthrene	38400		890	4000	5000	ug/L
120-12-7	Anthracene	38700		1100	4000	5000	ug/L
86-74-8	Carbazole	38600		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	38600		1500	4000	5000	ug/L
206-44-0	Fluoranthene	37400		1300	4000	5000	ug/L
92-87-5	Benzidine	40300		4100	8000	10000	ug/L
129-00-0	Pyrene	42000		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	47100		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	40700		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39100		940	4000	5000	ug/L
218-01-9	Chrysene	39700		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44300		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	45200		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40800		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	38700		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	41200		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41500		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	42400		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	40300		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40000		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	38900		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	44300		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38900		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	78443	*	10-139		52295	SPK: -150
13127-88-3	Phenol-d6	80682	*	10-134		53788	SPK: -150
4165-60-0	Nitrobenzene-d5	94171	*	49-133		94171	SPK: -100
321-60-8	2-Fluorobiphenyl	74736	*	52-132		74736	SPK: -100

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF060524			SDG No.:	BF060524
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
BF138125.D	1		6/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	86893	*	32-145		57929	SPK: -150
1718-51-0	Terphenyl-d14	80035	*	36-145		80035	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	490377	6.91				
1146-65-2	Naphthalene-d8	1912746	8.192				
15067-26-2	Acenaphthene-d10	1086256	9.945				
1517-22-2	Phenanthrene-d10	1856310	11.427				
1719-03-5	Chrysene-d12	956610	14.068				
1520-96-3	Perylene-d12	733906	15.545				

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Report of Analysis

Client:				Date Collected:	5/30/2024 12:00:00 AM
Project:				Date Received:	5/30/2024 12:00:00 AM
Client Sample ID:	PB161196BL			SDG No.:	BF060524
Lab Sample ID:	PB161196BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	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
BF138126.D	1	5/30/2024 12:00:00 AM	6/5/2024 12:00:00 AM	PB161196

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

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:				Date Collected:	5/30/2024 12:00:00 AM
Project:				Date Received:	5/30/2024 12:00:00 AM
Client Sample ID:	PB161196BL			SDG No.:	BF060524
Lab Sample ID:	PB161196BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	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
BF138126.D	1	5/30/2024 12:00:00 AM	6/5/2024 12:00:00 AM	PB161196

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	71.3	U	71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	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

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/30/2024 12:00:00 AM
Project:				Date Received:	5/30/2024 12:00:00 AM
Client Sample ID:	PB161196BL			SDG No.:	BF060524
Lab Sample ID:	PB161196BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	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
BF138126.D	1	5/30/2024 12:00:00 AM	6/5/2024 12:00:00 AM	PB161196

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	74.6	U	74.6	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	126.862		18-112		85	SPK: -150
13127-88-3	Phenol-d6	120.468		15-107		80	SPK: -150
4165-60-0	Nitrobenzene-d5	98.456		18-107		98	SPK: -100
321-60-8	2-Fluorobiphenyl	83.358		20-109		83	SPK: -100

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/30/2024 12:00:00 AM
Project:				Date Received:	5/30/2024 12:00:00 AM
Client Sample ID:	PB161196BL			SDG No.:	BF060524
Lab Sample ID:	PB161196BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	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
BF138126.D	1	5/30/2024 12:00:00 AM	6/5/2024 12:00:00 AM	PB161196

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	136.091		10-110		91	SPK: -150
1718-51-0	Terphenyl-d14	71.867		14-112		72	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	470723	6.904				
1146-65-2	Naphthalene-d8	1827375	8.187				
15067-26-2	Acenaphthene-d10	1077845	9.939				
1517-22-2	Phenanthrene-d10	1977746	11.428				
1719-03-5	Chrysene-d12	1276862	14.063				
1520-96-3	Perylene-d12	738275	15.539				
TENTATIVE IDENTIFIED COMPOUNDS							
000111-06-8	Hexadecanoic acid, butyl ester	68.6	J			12.839	
000215-58-7	Benzo[b]triphenylene	150	J			16.998	

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

Hit Summary Sheet
SW-846

SDG No.: BF060524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBF060524**							
SSTDICV040	ICVBF060524	Water	1,1-Biphenyl	38,400.000		910	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,2,4,5-Tetrachlorobenzene	40,000.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,2,4-Trichlorobenzene	39,800.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,2-Dichlorobenzene	39,400.000		880	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,3-Dichlorobenzene	39,500.000		800	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,4-Dichlorobenzene	39,500.000		840	5000	ug/L
SSTDICV040	ICVBF060524	Water	1,4-Dioxane	38,900.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	1-Methylnaphthalene	38,900.000		860	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,2-oxybis(1-Chloropropane)	39,100.000		1400	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,3,4,6-Tetrachlorophenol	44,300.000		790	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4,5-Trichlorophenol	42,700.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4,6-Trichlorophenol	44,100.000		890	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4-Dichlorophenol	42,200.000		880	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4-Dimethylphenol	41,500.000		1500	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4-Dinitrophenol	48,900.000		6400	10000	ug/L
SSTDICV040	ICVBF060524	Water	2,4-Dinitrotoluene	44,400.000		1500	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,6-Dinitrotoluene	43,200.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Chloronaphthalene	39,100.000		970	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Chlorophenol	40,700.000		710	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Methylnaphthalene	39,000.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Methylphenol	40,500.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Nitroaniline	43,300.000		1400	5000	ug/L
SSTDICV040	ICVBF060524	Water	2-Nitrophenol	48,100.000		2000	5000	ug/L
SSTDICV040	ICVBF060524	Water	3+4-Methylphenols	40,800.000		1200	10000	ug/L
SSTDICV040	ICVBF060524	Water	3,3-Dichlorobenzidine	40,700.000		1300	10000	ug/L
SSTDICV040	ICVBF060524	Water	3-Nitroaniline	42,900.000		1400	5000	ug/L
SSTDICV040	ICVBF060524	Water	4,6-Dinitro-2-methylphenol	46,900.000		3100	10000	ug/L
SSTDICV040	ICVBF060524	Water	4-Bromophenyl-phenylether	41,100.000		950	5000	ug/L
SSTDICV040	ICVBF060524	Water	4-Chloro-3-methylphenol	41,300.000		840	5000	ug/L
SSTDICV040	ICVBF060524	Water	4-Chloroaniline	39,700.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	4-Chlorophenyl-phenylether	38,000.000		980	5000	ug/L
SSTDICV040	ICVBF060524	Water	4-Nitroaniline	46,500.000		2000	5000	ug/L
SSTDICV040	ICVBF060524	Water	4-Nitrophenol	46,200.000		2000	10000	ug/L
SSTDICV040	ICVBF060524	Water	Acenaphthene	39,200.000		810	5000	ug/L
SSTDICV040	ICVBF060524	Water	Acenaphthylene	38,600.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	Acetophenone	38,300.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Aniline	40,200.000		1600	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BF060524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF060524	Water	Anthracene	38,700.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Atrazine	39,200.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	Azobenzene	38,700.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzaldehyde	48,300.000		4000	10000	ug/L
SSTDICV040	ICVBF060524	Water	Benzidine	40,300.000		4100	10000	ug/L
SSTDICV040	ICVBF060524	Water	Benzo(a)anthracene	39,100.000		940	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzo(a)pyrene	41,200.000		1700	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzo(b)fluoranthene	40,800.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzo(g,h,i)perylene	40,300.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzo(k)fluoranthene	38,700.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Benzoic acid	50,100.000		5500	10000	ug/L
SSTDICV040	ICVBF060524	Water	Benzyl Alcohol	41,400.000		1600	10000	ug/L
SSTDICV040	ICVBF060524	Water	bis(2-Chloroethoxy)methane	39,400.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	bis(2-Chloroethyl)ether	39,600.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Bis(2-ethylhexyl)phthalate	44,300.000		1900	5000	ug/L
SSTDICV040	ICVBF060524	Water	Butylbenzylphthalate	47,100.000		2100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Caprolactam	40,500.000		1700	10000	ug/L
SSTDICV040	ICVBF060524	Water	Carbazole	38,600.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Chrysene	39,700.000		860	5000	ug/L
SSTDICV040	ICVBF060524	Water	Di-n-butylphthalate	38,600.000		1500	5000	ug/L
SSTDICV040	ICVBF060524	Water	Di-n-octyl phthalate	45,200.000		2500	10000	ug/L
SSTDICV040	ICVBF060524	Water	Dibenzo(a,h)anthracene	42,400.000		1200	5000	ug/L
SSTDICV040	ICVBF060524	Water	Dibenzofuran	38,500.000		930	5000	ug/L
SSTDICV040	ICVBF060524	Water	Diethylphthalate	38,600.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	Dimethylphthalate	39,000.000		930	5000	ug/L
SSTDICV040	ICVBF060524	Water	Fluoranthene	37,400.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	Fluorene	38,200.000		960	5000	ug/L
SSTDICV040	ICVBF060524	Water	Hexachlorobenzene	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Hexachlorobutadiene	39,800.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	Hexachlorocyclopentadiene	41,000.000		5000	10000	ug/L
SSTDICV040	ICVBF060524	Water	Hexachloroethane	41,100.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	Indeno(1,2,3-cd)pyrene	41,500.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	Isophorone	39,400.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	n-Nitroso-di-n-propylamine	39,100.000		1500	2500	ug/L
SSTDICV040	ICVBF060524	Water	n-Nitrosodimethylamine	39,900.000		1000	10000	ug/L
SSTDICV040	ICVBF060524	Water	n-Nitrosodiphenylamine	40,200.000		890	5000	ug/L
SSTDICV040	ICVBF060524	Water	Naphthalene	38,900.000		1000	5000	ug/L
SSTDICV040	ICVBF060524	Water	Nitrobenzene	44,700.000		1300	5000	ug/L
SSTDICV040	ICVBF060524	Water	Pentachlorophenol	47,900.000		1900	10000	ug/L
SSTDICV040	ICVBF060524	Water	Phenanthrene	38,400.000		890	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BF060524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF060524	Water	Phenol	41,200.000		930	5000	ug/L
SSTDICV040	ICVBF060524	Water	Pyrene	42,000.000		1100	5000	ug/L
SSTDICV040	ICVBF060524	Water	Pyridine	40,100.000		1600	5000	ug/L
SSTDICV040	ICVBF060524	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	87,600.000		2700	10000	ug/L
SSTDICV040	ICVBF060524	Water	Total PAH	635,100.000		17360	80000	ug/L
			Total Svoc :	**4,017,800.00**				
			Total Concentration:	**4,017,800.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524

Instrument ID: Calibration Date(s): 6/5/2024 1:

Calibration Time(s): 11:15

LAB FILE ID: RRF2.5 = BF138117.D RRF005 = BF138118.D RRF010 = BF138119.D
RRF020 = BF138120.D RRF040 = BF138121.D RRF050 = BF138122.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.673	0.662	0.683	0.646	0.627	0.647	4.3
Pyridine		1.358	1.336	1.388	1.306	1.273	1.318	3.6
2-Fluorophenol		1.267	1.240	1.270	1.161	1.108	1.174	7.8
Benzaldehyde			1.040	0.956	0.767	0.676	0.791	21.2
Aniline		1.584	1.523	1.567	1.499	1.474	1.505	4.2
Phenol-d6		1.616	1.559	1.595	1.470	1.416	1.485	7.6
Phenol		1.638	1.577	1.626	1.517	1.469	1.525	6.5
bis(2-Chloroethyl)ether		1.340	1.287	1.289	1.213	1.163	1.223	7.1
2-Chlorophenol		1.352	1.298	1.361	1.269	1.233	1.270	6.4
1,2-Dichlorobenzene		1.545	1.473	1.497	1.371	1.293	1.375	10.5
1,3-Dichlorobenzene		1.603	1.525	1.560	1.447	1.377	1.455	8.1
1,4-Dichlorobenzene		1.626	1.555	1.569	1.451	1.383	1.465	8.7
Benzyl Alcohol		1.119	1.084	1.128	1.062	1.023	1.051	7.4
2-Methylphenol		1.083	1.038	1.071	1.015	1.001	1.028	3.9
2,2-oxybis(1-Chloropropane)		1.983	1.862	1.917	1.774	1.710	1.795	7.5
Acetophenone		0.530	0.500	0.504	0.456	0.426	0.460	11.6
3+4-Methylphenols		1.413	1.355	1.409	1.298	1.214	1.279	10.5
n-Nitroso-di-n-propylamine	0.959	1.041	0.993	1.006	0.925	0.895	0.947	6.8
Nitrobenzene-d5		0.219	0.251	0.304	0.315	0.320	0.294	14.4
Hexachloroethane		0.508	0.499	0.527	0.502	0.496	0.500	4.0
Nitrobenzene		0.263	0.292	0.338	0.335	0.336	0.320	9.6
Isophorone		0.703	0.658	0.678	0.637	0.617	0.648	5.2
2-Nitrophenol		0.047	0.058	0.086	0.116	0.140	0.108	41.9
2,4-Dimethylphenol		0.223	0.220	0.232	0.226	0.224	0.225	2.1
bis(2-Chloroethoxy)methane		0.426	0.405	0.421	0.391	0.378	0.394	6.5
2,4-Dichlorophenol		0.251	0.260	0.285	0.280	0.272	0.271	4.6
1,2,4-Trichlorobenzene		0.348	0.340	0.351	0.325	0.311	0.327	6.5
Benzoic acid			0.056	0.097	0.137	0.179	0.148	42.5
Naphthalene		1.127	1.063	1.072	0.957	0.883	0.967	13.2
4-Chloroaniline		0.400	0.375	0.390	0.357	0.346	0.364	7.1
Hexachlorobutadiene		0.207	0.200	0.205	0.193	0.183	0.192	6.9
Caprolactam		0.086	0.085	0.093	0.091	0.089	0.091	4.5
4-Chloro-3-methylphenol		0.275	0.271	0.293	0.281	0.274	0.278	3.5
2-Methylnaphthalene		0.743	0.708	0.715	0.647	0.606	0.652	11.7
Hexachlorocyclopentadiene		0.143	0.160	0.189	0.199	0.206	0.186	13.7
2,4,6-Trichlorophenol		0.291	0.308	0.355	0.359	0.363	0.343	8.9

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524

Instrument ID: Calibration Date(s): 6/5/2024 1:

Calibration Time(s): 11:15

LAB FILE ID: RRF2.5 = BF138117.D RRF005 = BF138118.D RRF010 = BF138119.D
RRF020 = BF138120.D RRF040 = BF138121.D RRF050 = BF138122.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl			1.444	1.380	1.124	1.033	1.144	19.7
2,4,5-Trichlorophenol		0.327	0.357	0.393	0.394	0.390	0.378	7.3
1,1-Biphenyl		1.603	1.556	1.566	1.389	1.296	1.405	12.8
2-Chloronaphthalene		1.245	1.199	1.216	1.115	1.050	1.120	9.6
2-Nitroaniline		0.114	0.150	0.215	0.258	0.280	0.229	31.5
Dimethylphthalate		1.389	1.329	1.359	1.247	1.167	1.257	8.7
Acenaphthylene		1.769	1.697	1.742	1.576	1.485	1.584	10.4
2,6-Dinitrotoluene		0.131	0.176	0.240	0.262	0.272	0.235	25.1
3-Nitroaniline		0.149	0.185	0.247	0.263	0.272	0.240	21.9
Acenaphthene		1.175	1.145	1.170	1.057	1.016	1.071	9.2
2,4-Dinitrophenol		0.019	0.025	0.038	0.058	0.080	0.060	56.8
4-Nitrophenol			0.125	0.180	0.202	0.206	0.191	18.6
Dibenzofuran		1.726	1.663	1.664	1.508	1.394	1.514	12.0
2,4-Dinitrotoluene		0.133	0.179	0.268	0.315	0.329	0.272	31.2
Diethylphthalate		1.363	1.324	1.348	1.238	1.135	1.227	10.7
4-Chlorophenyl-phenylether		0.713	0.686	0.689	0.607	0.556	0.611	14.6
Fluorene		1.422	1.371	1.377	1.205	1.068	1.203	16.5
4-Nitroaniline		0.156	0.194	0.248	0.264	0.255	0.235	18.6
4,6-Dinitro-2-methylphenol			0.024	0.040	0.061	0.077	0.063	42.8
n-Nitrosodiphenylamine		0.653	0.626	0.629	0.595	0.575	0.597	7.0
Azobenzene		1.332	1.285	1.298	1.183	1.085	1.182	11.3
2,4,6-Tribromophenol		0.167	0.185	0.210	0.209	0.196	0.192	8.7
4-Bromophenyl-phenylether		0.237	0.231	0.236	0.228	0.225	0.228	3.5
Hexachlorobenzene		0.285	0.273	0.276	0.261	0.258	0.265	5.3
Atrazine		0.207	0.205	0.202	0.191	0.184	0.192	6.8
Pentachlorophenol		0.094	0.113	0.142	0.156	0.161	0.142	19.7
Phenanthrene		1.114	1.071	1.059	0.956	0.889	0.963	12.8
Anthracene		1.095	1.058	1.060	0.945	0.887	0.960	12.0
Carbazole		0.987	0.963	0.966	0.869	0.817	0.878	11.1
Di-n-butylphthalate		1.165	1.158	1.167	1.035	0.935	1.032	13.3
Fluoranthene		1.206	1.194	1.190	1.032	0.934	1.039	15.9
Benzidine		0.089	0.136	0.265	0.278	0.241	0.206	51.0
Pyrene		1.761	1.691	1.828	1.830	1.859	1.809	4.6
Terphenyl-d14		1.464	1.413	1.439	1.296	1.266	1.337	8.1
Butylbenzylphthalate		0.416	0.482	0.602	0.652	0.666	0.597	18.0
3,3-Dichlorobenzidine		0.303	0.312	0.339	0.322	0.315	0.320	5.3

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524

Instrument ID: Calibration Date(s): 6/5/2024 1:

Calibration Time(s): 11:15

LAB FILE ID: RRF2.5 = BF138117.D RRF005 = BF138118.D RRF010 = BF138119.D
RRF020 = BF138120.D RRF040 = BF138121.D RRF050 = BF138122.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.369	1.332	1.366	1.240	1.190	1.262	7.8
Chrysene		1.252	1.251	1.273	1.223	1.142	1.211	4.6
Bis(2-ethylhexyl)phthalate		0.790	0.843	0.932	0.916	0.889	0.870	6.1
Di-n-octyl phthalate		1.017	1.125	1.257	1.235	1.250	1.198	7.8
Benzo(b)fluoranthene		1.331	1.357	1.375	1.214	1.167	1.257	7.7
Benzo(k)fluoranthene		1.255	1.285	1.344	1.190	1.165	1.199	8.5
Benzo(a)pyrene		0.930	0.930	0.976	0.972	0.940	0.952	2.4
Indeno(1,2,3-cd)pyrene		0.579	0.679	0.909	1.076	1.058	0.940	24.4
Dibenzo(a,h)anthracene		0.455	0.531	0.723	0.860	0.842	0.748	25.1
Benzo(g,h,i)perylene		0.471	0.562	0.773	0.917	0.890	0.785	25.0
1,2,4,5-Tetrachlorobenzene		0.599	0.584	0.610	0.568	0.542	0.565	6.7
1,4-Dioxane		0.579	0.551	0.564	0.527	0.512	0.538	5.2
2,3,4,6-Tetrachlorophenol		0.252	0.273	0.310	0.320	0.313	0.298	8.9
1-Methylnaphthalene		0.730	0.692	0.701	0.639	0.589	0.639	11.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG NO.: BF060524

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 5 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 17:06

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	428297	6.91	1.63531e+0(	8.19	922358	9.95
	UPPER LIMIT	856594	7.41	3270620	8.692	1844716	10.445
	LOWER LIMIT	214148.5	6.41	817655	7.692	461179	9.445
	EPA SAMPLE NO.						
01	ICVBF060524	490377	6.91	1.91275e	8.19	1.08626e	9.95
02	PB161196BL	470723	6.90	1.82738e	8.19	1.07785e	9.94

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.: BF060524 SAS No.: BF060524 SDG NO.: BF060524

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 5 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 17:06

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	428297	6.91	1.63531e+0(	8.19	922358	9.95
	UPPER LIMIT	856594	7.41	3270620	8.692	1844716	10.445
	LOWER LIMIT	214148.5	6.41	817655	7.692	461179	9.445
	EPA SAMPLE NO.						
01	ICVBF060524	490377	6.91	1.91275e	8.19	1.08626e	9.95
02	PB161196BL	470723	6.90	1.82738e	8.19	1.07785e	9.94

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG NO.: BF060524

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 5 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 17:06

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	1.65019e+0(	11.433	942910	14.068	707214	15.545
	UPPER LIMIT	3300380	11.933	1885820	14.568	1414428	16.045
	LOWER LIMIT	825095	10.933	471455	13.568	353607	15.045
	EPA SAMPLE NO.						
01	ICVBF060524	1.85631	11.43	956610	14.07	733906	15.55
02	PB161196BL	1.97775	11.43	1.27686e+	14.06	738275	15.54

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG NO.: BF060524

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 5 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 17:06

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	1.65019e+0(	11.433	942910	14.068	707214	15.545
	UPPER LIMIT	3300380	11.933	1885820	14.568	1414428	16.045
	LOWER LIMIT	825095	10.933	471455	13.568	353607	15.045
	EPA SAMPLE NO.						
01	ICVBF060524	1.85631	11.43	956610	14.07	733906	15.55
02	PB161196BL	1.97775	11.43	1.27686e+	14.06	738275	15.54

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 Qual	Limits Low	Limits High	RPD

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Surrogate Summary

SW-846

SDG No.: BF060524

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBF060524	BF138125.D	2-Fluorophenol	150	78,443.00	52295	*	10	139
			Phenol-d6	150	80,682.00	53788	*	10	134
			Nitrobenzene-d5	100	94,171.00	94171	*	49	133
			2-Fluorobiphenyl	100	74,736.00	74736	*	52	132
			2,4,6-Tribromophenol	150	86,893.00	57929	*	32	145
			Terphenyl-d14	100	80,035.00	80035	*	36	145

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Surrogate Summary

SW-846

SDG No.: BF060524

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB161196BL	PB161196BL	BF138126.D	2-Fluorophenol	150	126.86	85		18	112
			Phenol-d6	150	120.47	80		15	107
			Nitrobenzene-d5	100	98.46	98		18	107
			2-Fluorobiphenyl	100	83.36	83		20	109
			2,4,6-Tribromophenol	150	136.09	91		10	110
			Terphenyl-d14	100	71.87	72		14	112

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF060524

Lab Code: CHEM SAS No.: BF060524 SDG NO.: BF060524

Lab File ID: BF138116.D DFTPP Injection Date: 06/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.6
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	26.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.3
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	6.3
275	10.0 - 60.0% of mass 198	28.4
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	16.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.8 (19.8) 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	BF138117.D	06/05/2024	11:15
SSTDICC005	SSTDICC005	BF138118.D	06/05/2024	11:44
SSTDICC010	SSTDICC010	BF138119.D	06/05/2024	12:13
SSTDICC020	SSTDICC020	BF138120.D	06/05/2024	12:42
SSTDICCC040	SSTDICCC040	BF138121.D	06/05/2024	13:12
SSTDICC050	SSTDICC050	BF138122.D	06/05/2024	14:10
SSTDICC060	SSTDICC060	BF138123.D	06/05/2024	15:09
SSTDICC080	SSTDICC080	BF138124.D	06/05/2024	16:07
ICVBF060524	SSTDICV040	BF138125.D	06/05/2024	17:06
PB161196BL	PB161196BL	BF138126.D	06/05/2024	18:06