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.: BF070924 SAS No.: BF070924 SDG No.: BF070924

Instrument ID: BNA_F Calibration Date/Time: 7/9/2024 12: 14:29

Lab File ID: BF138486.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	0.898	0.921		2.561	
Pyridine	1.379	1.389		0.725	
2-Fluorophenol	1.263	1.265		0.158	
Benzaldehyde	0.899	0.879		-2.225	
Aniline	1.573	1.595		1.399	
Phenol-d6	1.680	1.671		-0.536	
Phenol	1.783	1.770		-0.729	20.0
bis(2-Chloroethyl)ether	1.343	1.350		0.521	
2-Chlorophenol	1.335	1.337		0.15	
1,2-Dichlorobenzene	1.420	1.419		-0.07	
1,3-Dichlorobenzene	1.501	1.500		-0.067	
1,4-Dichlorobenzene	1.524	1.536		0.787	20.0
Benzyl Alcohol	1.261	1.272		0.872	
2-Methylphenol	1.094	1.099		0.457	
2,2-oxybis(1-Chloropropane)	2.640	2.665		0.947	
Acetophenone	0.486	0.469		-3.498	
3+4-Methylphenols	1.378	1.362		-1.161	
n-Nitroso-di-n-propylamine	1.038	1.022	0.050	-1.541	
Nitrobenzene-d5	0.407	0.406		-0.246	
Hexachloroethane	0.560	0.566		1.071	
Nitrobenzene	0.414	0.415		0.242	
Isophorone	0.700	0.686		-2.0	
2-Nitrophenol	0.177	0.180		1.695	20.0
2,4-Dimethylphenol	0.218	0.217		-0.459	
bis(2-Chloroethoxy)methane	0.418	0.413		-1.196	
2,4-Dichlorophenol	0.283	0.283		0.0	20.0
1,2,4-Trichlorobenzene	0.330	0.326		-1.212	
Benzoic acid	0.208	0.219		5.288	
Naphthalene	1.040	1.022		-1.731	
4-Chloroaniline	0.365	0.356		-2.466	
Hexachlorobutadiene	0.203	0.200		-1.478	20.0
Caprolactam	0.091	0.091		0.0	
4-Chloro-3-methylphenol	0.317	0.312		-1.577	20.0
2-Methylnaphthalene	0.669	0.646		-3.438	
Hexachlorocyclopentadiene	0.181	0.189	0.050	4.42	
2,4,6-Trichlorophenol	0.356	0.353		-0.843	20.0
2-Fluorobiphenyl	1.280	1.224		-4.375	
2,4,5-Trichlorophenol	0.391	0.395		1.023	
1,1-Biphenyl	1.516	1.476		-2.639	

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Instrument ID: BNA_F Calibration Date/Time: 7/9/2024 12: 14:29

Lab File ID: BF138486.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	1.145	1.127		-1.572	
2-Nitroaniline	0.397	0.403		1.511	
Dimethylphthalate	1.293	1.275		-1.392	
Acenaphthylene	1.626	1.593		-2.03	
2,6-Dinitrotoluene	0.298	0.302		1.342	
3-Nitroaniline	0.305	0.308		0.984	
Acenaphthene	1.081	1.048		-3.053	20.0
2,4-Dinitrophenol	0.141	0.147	0.050	4.255	
4-Nitrophenol	0.225	0.231	0.050	2.667	
Dibenzofuran	1.567	1.527		-2.553	
2,4-Dinitrotoluene	0.385	0.388		0.779	
Diethylphthalate	1.247	1.227		-1.604	
4-Chlorophenyl-phenylether	0.623	0.600		-3.692	
Fluorene	1.240	1.200		-3.226	
4-Nitroaniline	0.306	0.305		-0.327	
4,6-Dinitro-2-methylphenol	0.115	0.122		6.087	
n-Nitrosodiphenylamine	0.599	0.593		-1.002	20.0
Azobenzene	1.340	1.312		-2.09	
2,4,6-Tribromophenol	0.187	0.185		-1.07	
4-Bromophenyl-phenylether	0.206	0.203		-1.456	
Hexachlorobenzene	0.228	0.223		-2.193	
Atrazine	0.199	0.197		-1.005	
Pentachlorophenol	0.135	0.138		2.222	20.0
Phenanthrene	1.010	0.985		-2.475	
Anthracene	1.003	0.980		-2.293	
Carbazole	0.901	0.880		-2.331	
Di-n-butylphthalate	1.039	1.020		-1.829	
Fluoranthene	1.031	0.996		-3.395	20.0
Benzidine	0.505	0.510		0.99	
Pyrene	2.030	2.100		3.448	
Terphenyl-d14	1.228	1.252		1.954	
Butylbenzylphthalate	0.611	0.634		3.764	
3,3-Dichlorobenzidine	0.346	0.347		0.289	
Benzo(a)anthracene	1.342	1.337		-0.373	
Chrysene	1.270	1.254		-1.26	
Bis(2-ethylhexyl)phthalate	0.651	0.684		5.069	
Di-n-octyl phthalate	1.029	1.036		0.68	20.0
Benzo(b)fluoranthene	1.126	1.073		-4.707	
Benzo(k)fluoranthene	1.099	1.056		-3.913	

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Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF070924 SAS No.: BF070924 SDG No.: BF070924

Instrument ID: BNA_F Calibration Date/Time: 7/9/2024 12: 14:29

Lab File ID: BF138486.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	0.989	0.976		-1.314	20.0
Indeno(1,2,3-cd)pyrene	1.343	1.471		9.531	
Dibenzo(a,h)anthracene	1.099	1.213		10.373	
Benzo(g,h,i)perylene	1.165	1.270		9.013	
1,2,4,5-Tetrachlorobenzene	0.557	0.550		-1.257	
1,4-Dioxane	0.559	0.571		2.147	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.311		0.647	
1-Methylnaphthalene	0.653	0.644		-1.378	

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:	ICVBF070924			SDG No.:	BF070924
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
BF138490.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	41100		1000	8000	10000	ug/L
110-86-1	Pyridine	40800		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	40700		4000	8000	10000	ug/L
62-53-3	Aniline	40800		1600	4000	5000	ug/L
108-95-2	Phenol	40600		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39700		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	40400		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39900		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	39900		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39800		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40500		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40100		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40300		1400	4000	5000	ug/L
98-86-2	Acetophenone	38200		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	39700		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39000		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40800		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	39800		1300	4000	5000	ug/L
78-59-1	Isophorone	39400		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	41600		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	39800		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39600		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40300		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39400		1100	4000	5000	ug/L
65-85-0	Benzoic acid	42300		5500	8000	10000	ug/L
91-20-3	Naphthalene	39300		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	39300		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	39500		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF070924			SDG No.:	BF070924
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
BF138490.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	40400		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	39500		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	38800		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	41700		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	40900		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39700		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	39100		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	39400		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	40900		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39900		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39600		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	40200		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	40400		1400	4000	5000	ug/L
83-32-9	Acenaphthene	40000		810	4000	5000	ug/L
Total PAH	Total PAH	640000		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	41200		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	41500		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39300		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	41500		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	81700		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	40100		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39200		980	4000	5000	ug/L
86-73-7	Fluorene	39200		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	40300		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44700		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	39000		890	4000	5000	ug/L
103-33-3	Azobenzene	39800		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	39800		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	39500		1100	4000	5000	ug/L
1912-24-9	Atrazine	39100		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF070924			SDG No.:	BF070924
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
BF138490.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	41800		1900	8000	10000	ug/L
85-01-8	Phenanthrene	38900		890	4000	5000	ug/L
120-12-7	Anthracene	39200		1100	4000	5000	ug/L
86-74-8	Carbazole	39000		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	40000		1500	4000	5000	ug/L
206-44-0	Fluoranthene	38800		1300	4000	5000	ug/L
92-87-5	Benzidine	46400		4100	8000	10000	ug/L
129-00-0	Pyrene	40600		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	42900		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	40600		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	38700		940	4000	5000	ug/L
218-01-9	Chrysene	39200		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42300		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	39500		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40200		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	36300		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39800		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43400		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	43600		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	43200		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39500		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	40100		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41000		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	39100		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	79645	*	10-139		53097	SPK: -150
13127-88-3	Phenol-d6	79529	*	10-134		53019	SPK: -150
4165-60-0	Nitrobenzene-d5	79208	*	49-133		79208	SPK: -100
321-60-8	2-Fluorobiphenyl	77047	*	52-132		77047	SPK: -100

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF070924			SDG No.:	BF070924
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
BF138490.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	79279	*	32-145		52853	SPK: -150
1718-51-0	Terphenyl-d14	81756	*	36-145		81756	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	94297	6.869				
1146-65-2	Naphthalene-d8	377907	8.151				
15067-26-2	Acenaphthene-d10	211100	9.904				
1517-22-2	Phenanthrene-d10	371389	11.386				
1719-03-5	Chrysene-d12	181868	14.021				
1520-96-3	Perylene-d12	169805	15.486				

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	PB161565BL			SDG No.:	BF070924
Lab Sample ID:	PB161565BL			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
BF138491.D	1		7/9/2024 12:00:00 AM	

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

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	PB161565BL			SDG No.:	BF070924
Lab Sample ID:	PB161565BL			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
BF138491.D	1		7/9/2024 12:00:00 AM	

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

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:			
Project:				Date Received:			
Client Sample ID:	PB161565BL			SDG No.:	BF070924		
Lab Sample ID:	PB161565BL			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
BF138491.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	1900	U	1900	8000	10000	ug/L
85-01-8	Phenanthrene	890	U	890	4000	5000	ug/L
120-12-7	Anthracene	1100	U	1100	4000	5000	ug/L
86-74-8	Carbazole	1200	U	1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	1500	U	1500	4000	5000	ug/L
206-44-0	Fluoranthene	1300	U	1300	4000	5000	ug/L
92-87-5	Benzidine	4100	U	4100	8000	10000	ug/L
129-00-0	Pyrene	1100	U	1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	2100	U	2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	1300	U	1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	940	U	940	4000	5000	ug/L
218-01-9	Chrysene	860	U	860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U	1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	2500	U	2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	1100	U	1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	1200	U	1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	1700	U	1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1000	U	1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	1200	U	1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	1200	U	1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U	1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	1300	U	1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	790	U	790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	860	U	860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	121249	*	10-139		80833	SPK: -150
13127-88-3	Phenol-d6	119218	*	10-134		79479	SPK: -150
4165-60-0	Nitrobenzene-d5	82628	*	49-133		82628	SPK: -100
321-60-8	2-Fluorobiphenyl	79532	*	52-132		79532	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:	
Project:				Date Received:	
Client Sample ID:	PB161565BL			SDG No.:	BF070924
Lab Sample ID:	PB161565BL			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
BF138491.D	1		7/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	125522	*	32-145		83681	SPK: -150
1718-51-0	Terphenyl-d14	76070	*	36-145		76070	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	116886	6.863				
1146-65-2	Naphthalene-d8	473691	8.145				
15067-26-2	Acenaphthene-d10	271557	9.898				
1517-22-2	Phenanthrene-d10	509820	11.386				
1719-03-5	Chrysene-d12	348831	14.021				
1520-96-3	Perylene-d12	265457	15.486				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	3200	J			2.234	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	7700	A			5.11	

CHEMTECH
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: BF070924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBF070924**							
SSTDICV040	ICVBF070924	Water	1,1-Biphenyl	39,100.000		910	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,2,4,5-Tetrachlorobenzene	39,500.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,2,4-Trichlorobenzene	39,400.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,2-Dichlorobenzene	39,900.000		880	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,3-Dichlorobenzene	39,900.000		800	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,4-Dichlorobenzene	39,800.000		840	5000	ug/L
SSTDICV040	ICVBF070924	Water	1,4-Dioxane	40,100.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	1-Methylnaphthalene	39,100.000		860	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,2-oxybis(1-Chloropropane)	40,300.000		1400	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,3,4,6-Tetrachlorophenol	41,000.000		790	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4,5-Trichlorophenol	39,700.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4,6-Trichlorophenol	40,900.000		890	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4-Dichlorophenol	40,300.000		880	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4-Dimethylphenol	39,800.000		1500	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4-Dinitrophenol	41,200.000		6400	10000	ug/L
SSTDICV040	ICVBF070924	Water	2,4-Dinitrotoluene	41,500.000		1500	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,6-Dinitrotoluene	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Chloronaphthalene	39,400.000		970	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Chlorophenol	40,400.000		710	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Methylnaphthalene	38,800.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Methylphenol	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Nitroaniline	40,900.000		1400	5000	ug/L
SSTDICV040	ICVBF070924	Water	2-Nitrophenol	41,600.000		2000	5000	ug/L
SSTDICV040	ICVBF070924	Water	3+4-Methylphenols	39,700.000		1200	10000	ug/L
SSTDICV040	ICVBF070924	Water	3,3-Dichlorobenzidine	40,600.000		1300	10000	ug/L
SSTDICV040	ICVBF070924	Water	3-Nitroaniline	40,400.000		1400	5000	ug/L
SSTDICV040	ICVBF070924	Water	4,6-Dinitro-2-methylphenol	44,700.000		3100	10000	ug/L
SSTDICV040	ICVBF070924	Water	4-Bromophenyl-phenylether	39,800.000		950	5000	ug/L
SSTDICV040	ICVBF070924	Water	4-Chloro-3-methylphenol	39,500.000		840	5000	ug/L
SSTDICV040	ICVBF070924	Water	4-Chloroaniline	39,300.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	4-Chlorophenyl-phenylether	39,200.000		980	5000	ug/L
SSTDICV040	ICVBF070924	Water	4-Nitroaniline	40,300.000		2000	5000	ug/L
SSTDICV040	ICVBF070924	Water	4-Nitrophenol	41,500.000		2000	10000	ug/L
SSTDICV040	ICVBF070924	Water	Acenaphthene	40,000.000		810	5000	ug/L
SSTDICV040	ICVBF070924	Water	Acenaphthylene	39,600.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	Acetophenone	38,200.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Aniline	40,800.000		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.: BF070924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF070924	Water	Anthracene	39,200.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Atrazine	39,100.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	Azobenzene	39,800.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzaldehyde	40,700.000		4000	10000	ug/L
SSTDICV040	ICVBF070924	Water	Benzidine	46,400.000		4100	10000	ug/L
SSTDICV040	ICVBF070924	Water	Benzo(a)anthracene	38,700.000		940	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzo(a)pyrene	39,800.000		1700	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzo(b)fluoranthene	40,200.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzo(g,h,i)perylene	43,200.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzo(k)fluoranthene	36,300.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Benzoic acid	42,300.000		5500	10000	ug/L
SSTDICV040	ICVBF070924	Water	Benzyl Alcohol	40,500.000		1600	10000	ug/L
SSTDICV040	ICVBF070924	Water	bis(2-Chloroethoxy)methane	39,600.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	bis(2-Chloroethyl)ether	39,700.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Bis(2-ethylhexyl)phthalate	42,300.000		1900	5000	ug/L
SSTDICV040	ICVBF070924	Water	Butylbenzylphthalate	42,900.000		2100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Caprolactam	40,400.000		1700	10000	ug/L
SSTDICV040	ICVBF070924	Water	Carbazole	39,000.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Chrysene	39,200.000		860	5000	ug/L
SSTDICV040	ICVBF070924	Water	Di-n-butylphthalate	40,000.000		1500	5000	ug/L
SSTDICV040	ICVBF070924	Water	Di-n-octyl phthalate	39,500.000		2500	10000	ug/L
SSTDICV040	ICVBF070924	Water	Dibenzo(a,h)anthracene	43,600.000		1200	5000	ug/L
SSTDICV040	ICVBF070924	Water	Dibenzofuran	39,300.000		930	5000	ug/L
SSTDICV040	ICVBF070924	Water	Diethylphthalate	40,100.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	Dimethylphthalate	39,900.000		930	5000	ug/L
SSTDICV040	ICVBF070924	Water	Fluoranthene	38,800.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	Fluorene	39,200.000		960	5000	ug/L
SSTDICV040	ICVBF070924	Water	Hexachlorobenzene	39,500.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Hexachlorobutadiene	39,500.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	Hexachlorocyclopentadiene	41,700.000		5000	10000	ug/L
SSTDICV040	ICVBF070924	Water	Hexachloroethane	40,800.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	Indeno(1,2,3-cd)pyrene	43,400.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	Isophorone	39,400.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	n-Nitroso-di-n-propylamine	39,000.000		1500	2500	ug/L
SSTDICV040	ICVBF070924	Water	n-Nitrosodimethylamine	41,100.000		1000	10000	ug/L
SSTDICV040	ICVBF070924	Water	n-Nitrosodiphenylamine	39,000.000		890	5000	ug/L
SSTDICV040	ICVBF070924	Water	Naphthalene	39,300.000		1000	5000	ug/L
SSTDICV040	ICVBF070924	Water	Nitrobenzene	39,800.000		1300	5000	ug/L
SSTDICV040	ICVBF070924	Water	Pentachlorophenol	41,800.000		1900	10000	ug/L
SSTDICV040	ICVBF070924	Water	Phenanthrene	38,900.000		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.: BF070924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF070924	Water	Phenol	40,600.000		930	5000	ug/L
SSTDICV040	ICVBF070924	Water	Pyrene	40,600.000		1100	5000	ug/L
SSTDICV040	ICVBF070924	Water	Pyridine	40,800.000		1600	5000	ug/L
SSTDICV040	ICVBF070924	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	81,700.000		2700	10000	ug/L
SSTDICV040	ICVBF070924	Water	Total PAH	640,000.000		17360	80000	ug/L
			Total Svoc :	**3,943,100.00**				
			Total Concentration:	**3,943,100.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF070924 SAS No.: BF070924 SDG No.: BF070924

Instrument ID: Calibration Date(s): 7/9/2024 1:

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BF138482.D RRF005 = BF138483.D RRF010 = BF138484.D
RRF020 = BF138485.D RRF040 = BF138486.D RRF050 = BF138487.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.886	0.873	0.934	0.921	0.878	0.898	2.6
Pyridine		1.375	1.370	1.480	1.389	1.347	1.379	3.5
2-Fluorophenol		1.362	1.335	1.352	1.265	1.191	1.263	7.1
Benzaldehyde		0.919	0.990	1.043	0.879	0.805	0.899	12.0
Aniline		1.678	1.615	1.712	1.595	1.476	1.573	6.6
Phenol-d6		1.825	1.753	1.808	1.671	1.588	1.680	7.0
Phenol		1.947	1.887	1.901	1.770	1.673	1.783	7.2
bis(2-Chloroethyl)ether		1.415	1.360	1.406	1.350	1.297	1.343	4.4
2-Chlorophenol		1.440	1.367	1.456	1.337	1.285	1.335	7.1
1,2-Dichlorobenzene		1.565	1.518	1.521	1.419	1.334	1.420	8.4
1,3-Dichlorobenzene		1.613	1.577	1.610	1.500	1.428	1.501	6.8
1,4-Dichlorobenzene		1.663	1.580	1.631	1.536	1.446	1.524	7.1
Benzyl Alcohol		1.313	1.289	1.365	1.272	1.219	1.261	5.6
2-Methylphenol		1.157	1.118	1.171	1.099	1.046	1.094	5.4
2,2-oxybis(1-Chloropropane)		2.833	2.775	2.810	2.665	2.526	2.640	6.8
Acetophenone		0.548	0.523	0.509	0.469	0.452	0.486	8.5
3+4-Methylphenols		1.555	1.486	1.488	1.362	1.277	1.378	9.7
n-Nitroso-di-n-propylamine	1.131	1.137	1.068	1.089	1.022	0.962	1.038	7.8
Nitrobenzene-d5		0.432	0.416	0.425	0.406	0.393	0.407	4.6
Hexachloroethane		0.573	0.571	0.600	0.566	0.545	0.560	4.4
Nitrobenzene		0.433	0.421	0.432	0.415	0.403	0.414	3.8
Isophorone		0.742	0.720	0.733	0.686	0.666	0.700	4.6
2-Nitrophenol		0.170	0.168	0.187	0.180	0.178	0.177	4.0
2,4-Dimethylphenol		0.229	0.223	0.226	0.217	0.208	0.218	4.0
bis(2-Chloroethoxy)methane		0.458	0.425	0.438	0.413	0.398	0.418	5.8
2,4-Dichlorophenol		0.292	0.288	0.302	0.283	0.275	0.283	4.3
1,2,4-Trichlorobenzene		0.361	0.343	0.347	0.326	0.314	0.330	6.5
Benzoic acid		0.169	0.186	0.201	0.219	0.225	0.208	11.3
Naphthalene		1.162	1.093	1.101	1.022	0.974	1.040	7.7
4-Chloroaniline		0.388	0.369	0.382	0.356	0.352	0.365	4.3
Hexachlorobutadiene		0.221	0.210	0.214	0.200	0.195	0.203	6.0
Caprolactam		0.093	0.093	0.095	0.091	0.088	0.091	2.8
4-Chloro-3-methylphenol		0.340	0.327	0.334	0.312	0.303	0.317	5.3
2-Methylnaphthalene		0.757	0.709	0.710	0.646	0.626	0.669	8.4
Hexachlorocyclopentadiene			0.142	0.174	0.189	0.189	0.181	11.4
2,4,6-Trichlorophenol		0.376	0.358	0.365	0.353	0.347	0.356	3.5

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.: BF070924 SAS No.: BF070924 SDG No.: BF070924

Instrument ID: Calibration Date(s): 7/9/2024 1:

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BF138482.D RRF005 = BF138483.D RRF010 = BF138484.D
RRF020 = BF138485.D RRF040 = BF138486.D RRF050 = BF138487.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.504	1.403	1.347	1.224	1.184	1.280	11.0
2,4,5-Trichlorophenol		0.409	0.391	0.409	0.395	0.382	0.391	3.7
1,1-Biphenyl		1.691	1.598	1.602	1.476	1.433	1.516	7.6
2-Chloronaphthalene		1.264	1.200	1.178	1.127	1.092	1.145	6.3
2-Nitroaniline		0.403	0.393	0.406	0.403	0.391	0.397	1.9
Dimethylphthalate		1.391	1.360	1.336	1.275	1.238	1.293	5.3
Acenaphthylene		1.803	1.733	1.686	1.593	1.550	1.626	7.3
2,6-Dinitrotoluene		0.306	0.300	0.309	0.302	0.288	0.298	3.1
3-Nitroaniline		0.316	0.309	0.311	0.308	0.300	0.305	2.8
Acenaphthene		1.215	1.146	1.121	1.048	1.026	1.081	7.6
2,4-Dinitrophenol			0.105	0.126	0.147	0.152	0.141	15.4
4-Nitrophenol		0.215	0.221	0.228	0.231	0.228	0.225	2.9
Dibenzofuran		1.781	1.676	1.639	1.527	1.495	1.567	8.7
2,4-Dinitrotoluene		0.385	0.385	0.410	0.388	0.382	0.385	3.6
Diethylphthalate		1.360	1.321	1.301	1.227	1.189	1.247	6.5
4-Chlorophenyl-phenylether		0.721	0.673	0.662	0.600	0.578	0.623	10.1
Fluorene		1.424	1.325	1.319	1.200	1.165	1.240	9.4
4-Nitroaniline		0.309	0.310	0.314	0.305	0.305	0.306	2.5
4,6-Dinitro-2-methylphenol		0.090	0.099	0.118	0.122	0.124	0.115	13.0
n-Nitrosodiphenylamine		0.642	0.629	0.629	0.593	0.577	0.599	5.7
Azobenzene		1.478	1.407	1.410	1.312	1.281	1.340	6.9
2,4,6-Tribromophenol		0.202	0.199	0.194	0.185	0.178	0.187	6.2
4-Bromophenyl-phenylether		0.220	0.213	0.218	0.203	0.197	0.206	5.7
Hexachlorobenzene		0.251	0.239	0.239	0.223	0.218	0.228	6.4
Atrazine		0.219	0.207	0.212	0.197	0.191	0.199	7.4
Pentachlorophenol		0.116	0.124	0.142	0.138	0.143	0.135	8.1
Phenanthrene		1.136	1.090	1.058	0.985	0.954	1.010	8.4
Anthracene		1.103	1.072	1.071	0.980	0.952	1.003	7.8
Carbazole		0.995	0.983	0.968	0.880	0.854	0.901	9.0
Di-n-butylphthalate		1.138	1.092	1.109	1.020	1.000	1.039	7.3
Fluoranthene		1.203	1.149	1.114	0.996	0.961	1.031	12.3
Benzidine		0.452	0.523	0.625	0.510	0.498	0.505	14.0
Pyrene		1.980	1.956	2.061	2.100	2.024	2.030	2.9
Terphenyl-d14		1.251	1.204	1.281	1.252	1.199	1.228	3.0
Butylbenzylphthalate		0.588	0.567	0.626	0.634	0.613	0.611	4.3
3,3-Dichlorobenzidine		0.378	0.346	0.362	0.347	0.328	0.346	5.5

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.: BF070924 SAS No.: BF070924 SDG No.: BF070924

Instrument ID: Calibration Date(s): 7/9/2024 1:

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BF138482.D RRF005 = BF138483.D RRF010 = BF138484.D
RRF020 = BF138485.D RRF040 = BF138486.D RRF050 = BF138487.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.457	1.364	1.404	1.337	1.266	1.342	5.4
Chrysene		1.386	1.301	1.324	1.254	1.196	1.270	5.6
Bis(2-ethylhexyl)phthalate		0.576	0.574	0.644	0.684	0.674	0.651	8.6
Di-n-octyl phthalate			0.824	0.919	1.036	1.051	1.029	13.8
Benzo(b)fluoranthene		1.306	1.224	1.197	1.073	1.032	1.126	10.2
Benzo(k)fluoranthene		1.269	1.215	1.193	1.056	0.993	1.099	11.3
Benzo(a)pyrene		1.068	1.003	1.034	0.976	0.951	0.989	4.8
Indeno(1,2,3-cd)pyrene		1.091	1.212	1.442	1.471	1.401	1.343	10.3
Dibenzo(a,h)anthracene		0.906	0.999	1.180	1.213	1.143	1.099	9.9
Benzo(g,h,i)perylene		0.946	1.049	1.262	1.270	1.210	1.165	10.4
1,2,4,5-Tetrachlorobenzene		0.603	0.584	0.580	0.550	0.531	0.557	5.7
1,4-Dioxane		0.566	0.563	0.582	0.571	0.549	0.559	2.9
2,3,4,6-Tetrachlorophenol		0.303	0.311	0.329	0.311	0.305	0.309	3.4
1-Methylnaphthalene		0.736	0.692	0.688	0.644	0.613	0.653	8.3

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF070924 SAS No.: BF070924 SDG NO.: BF070924

EPA Sample No.: SSTDICCC040 Date Analyzed: Jul 9 2024 12:00AM

Lab File ID: BF138486.D Time Analyzed: 17:48

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	96160	6.869	383936	8.15	215266	9.90
	UPPER LIMIT	192320	7.369	767872	8.651	430532	10.404
	LOWER LIMIT	48080	6.369	191968	7.651	107633	9.404
	EPA SAMPLE NO.						
01	ICVBF070924	94297	6.87	377907	8.15	211100	9.90
02	PB161565BL	116886	6.86	473691	8.15	271557	9.90

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.: BF070924 SAS No.: BF070924 SDG NO.: BF070924

EPA Sample No.: SSTDICCC040 Date Analyzed: Jul 9 2024 12:00AM

Lab File ID: BF138486.D Time Analyzed: 17:48

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	96160	6.869	383936	8.15	215266	9.90
	UPPER LIMIT	192320	7.369	767872	8.651	430532	10.404
	LOWER LIMIT	48080	6.369	191968	7.651	107633	9.404
	EPA SAMPLE NO.						
01	ICVBF070924	94297	6.87	377907	8.15	211100	9.90
02	PB161565BL	116886	6.86	473691	8.15	271557	9.90

IS1 (DCB) = 1,4-Dichlorobenzene-d4
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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.: BF070924 SAS No.: BF070924 SDG NO.: BF070924

EPA Sample No.: SSTDICCC040 Date Analyzed: Jul 9 2024 12:00AM

Lab File ID: BF138486.D Time Analyzed: 17:48

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	374771	11.386	178592	14.027	166880	15.486
	UPPER LIMIT	749542	11.886	357184	14.527	333760	15.986
	LOWER LIMIT	187385.5	10.886	89296	13.527	83440	14.986
	EPA SAMPLE NO.						
01	ICVBF070924	371389	11.39	181868	14.02	169805	15.49
02	PB161565BL	509820	11.39	348831	14.02	265457	15.49

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.: BF070924 SAS No.: BF070924 SDG NO.: BF070924

EPA Sample No.: SSTDICCC040 Date Analyzed: Jul 9 2024 12:00AM

Lab File ID: BF138486.D Time Analyzed: 17:48

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	374771	11.386	178592	14.027	166880	15.486
	UPPER LIMIT	749542	11.886	357184	14.527	333760	15.986
	LOWER LIMIT	187385.5	10.886	89296	13.527	83440	14.986
	EPA SAMPLE NO.						
01	ICVBF070924	371389	11.39	181868	14.02	169805	15.49
02	PB161565BL	509820	11.39	348831	14.02	265457	15.49

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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB161565BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF070924 SAS No.: BF070924 SDG NO.: BF070924

Lab File ID: BF138491.D Lab Sample ID: PB161565BL

Instrument ID: BNA_F Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 07/09/2024

Level: (low/med) LOW Time Analyzed: 18:19

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF070924	SSTDICV040	BF138490.D	07/09/2024

COMMENTS:

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BF070924

Client:

Analytical Method:

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD

Lab Sample ID: **Client Sample ID:** **DataFile:**

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Surrogate Summary

SW-846

SDG No.: BF070924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB161565BL	PB161565BL	BF138491.D	2-Fluorophenol	150	121,249.00	80833	*	10	139
			Phenol-d6	150	119,218.00	79479	*	10	134
			Nitrobenzene-d5	100	82,628.00	82628	*	49	133
			2-Fluorobiphenyl	100	79,532.00	79532	*	52	132
			2,4,6-Tribromophenol	150	125,522.00	83681	*	32	145
			Terphenyl-d14	100	76,070.00	76070	*	36	145
SSTDICV040	ICVBF070924	BF138490.D	2-Fluorophenol	150	79,645.00	53097	*	10	139
			Phenol-d6	150	79,529.00	53019	*	10	134
			Nitrobenzene-d5	100	79,208.00	79208	*	49	133
			2-Fluorobiphenyl	100	77,047.00	77047	*	52	132
			2,4,6-Tribromophenol	150	79,279.00	52853	*	32	145
			Terphenyl-d14	100	81,756.00	81756	*	36	145

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF070924

Lab Code: CHEM SAS No.: BF070924 SDG NO.: BF070924

Lab File ID: BF138481.D DFTPP Injection Date: 07/09/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	47
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	83.8
443	15.0 - 24.0% of mass 442	16.1 (19.2) 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	BF138482.D	07/09/2024	12:26
SSTDICC005	SSTDICC005	BF138483.D	07/09/2024	12:57
SSTDICC010	SSTDICC010	BF138484.D	07/09/2024	13:27
SSTDICC020	SSTDICC020	BF138485.D	07/09/2024	13:58
SSTDICCC040	SSTDICCC040	BF138486.D	07/09/2024	14:29
SSTDICC050	SSTDICC050	BF138487.D	07/09/2024	15:00
SSTDICC060	SSTDICC060	BF138488.D	07/09/2024	15:32
SSTDICC080	SSTDICC080	BF138489.D	07/09/2024	16:03
ICVBF070924	SSTDICV040	BF138490.D	07/09/2024	17:48
PB161565BL	PB161565BL	BF138491.D	07/09/2024	18:19