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.: BF062824 SAS No.: BF062824 SDG No.: BF062824

Instrument ID: BNA_F Calibration Date/Time: 6/28/2024 12 15:00

Lab File ID: BF138388.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	0.846	0.866		2.364	
Pyridine	1.356	1.390		2.507	
2-Fluorophenol	1.206	1.198		-0.663	
Benzaldehyde	1.003	0.958		-4.487	
Aniline	1.586	1.564		-1.387	
Phenol-d6	1.625	1.600		-1.538	
Phenol	1.731	1.696		-2.022	20.0
bis(2-Chloroethyl)ether	1.360	1.352		-0.588	
2-Chlorophenol	1.295	1.280		-1.158	
1,2-Dichlorobenzene	1.373	1.347		-1.894	
1,3-Dichlorobenzene	1.483	1.478		-0.337	
1,4-Dichlorobenzene	1.487	1.460		-1.816	20.0
Benzyl Alcohol	1.164	1.175		0.945	
2-Methylphenol	1.073	1.062		-1.025	
2,2-oxybis(1-Chloropropane)	2.743	2.719		-0.875	
Acetophenone	0.454	0.437		-3.744	
3+4-Methylphenols	1.247	1.255		0.642	
n-Nitroso-di-n-propylamine	1.024	0.998	0.050	-2.539	
Nitrobenzene-d5	0.385	0.383		-0.519	
Hexachloroethane	0.536	0.543		1.306	
Nitrobenzene	0.392	0.389		-0.765	
Isophorone	0.710	0.693		-2.394	
2-Nitrophenol	0.169	0.176		4.142	20.0
2,4-Dimethylphenol	0.216	0.215		-0.463	
bis(2-Chloroethoxy)methane	0.427	0.420		-1.639	
2,4-Dichlorophenol	0.278	0.278		0.0	20.0
1,2,4-Trichlorobenzene	0.323	0.318		-1.548	
Benzoic acid	0.183	0.189		3.279	
Naphthalene	1.011	0.991		-1.978	
4-Chloroaniline	0.353	0.345		-2.266	
Hexachlorobutadiene	0.194	0.191		-1.546	20.0
Caprolactam	0.088	0.087		-1.136	
4-Chloro-3-methylphenol	0.296	0.288		-2.703	20.0
2-Methylnaphthalene	0.653	0.632		-3.216	
Hexachlorocyclopentadiene	0.163	0.173	0.050	6.135	
2,4,6-Trichlorophenol	0.352	0.356		1.136	20.0
2-Fluorobiphenyl	1.257	1.203		-4.296	
2,4,5-Trichlorophenol	0.383	0.385		0.522	
1,1-Biphenyl	1.493	1.465		-1.875	

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Instrument ID: BNA_F Calibration Date/Time: 6/28/2024 12 15:00

Lab File ID: BF138388.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	1.139	1.114		-2.195	
2-Nitroaniline	0.367	0.369		0.545	
Dimethylphthalate	1.285	1.241		-3.424	
Acenaphthylene	1.601	1.556		-2.811	
2,6-Dinitrotoluene	0.288	0.287		-0.347	
3-Nitroaniline	0.284	0.283		-0.352	
Acenaphthene	1.096	1.077		-1.734	20.0
2,4-Dinitrophenol	0.094	0.098	0.050	4.255	
4-Nitrophenol	0.184	0.191	0.050	3.804	
Dibenzofuran	1.511	1.468		-2.846	
2,4-Dinitrotoluene	0.354	0.366		3.39	
Diethylphthalate	1.202	1.168		-2.829	
4-Chlorophenyl-phenylether	0.609	0.565		-7.225	
Fluorene	1.200	1.104		-8.0	
4-Nitroaniline	0.261	0.265		1.533	
4,6-Dinitro-2-methylphenol	0.096	0.100		4.167	
n-Nitrosodiphenylamine	0.621	0.599		-3.543	20.0
Azobenzene	1.269	1.248		-1.655	
2,4,6-Tribromophenol	0.163	0.163		0.0	
4-Bromophenyl-phenylether	0.215	0.209		-2.791	
Hexachlorobenzene	0.237	0.228		-3.797	
Atrazine	0.174	0.182		4.598	
Pentachlorophenol	0.120	0.128		6.667	20.0
Phenanthrene	0.976	0.954		-2.254	
Anthracene	0.974	0.954		-2.053	
Carbazole	0.808	0.804		-0.495	
Di-n-butylphthalate	1.025	1.023		-0.195	
Fluoranthene	0.875	0.880		0.571	20.0
Benzidine	0.160	0.032		-80.0	
Pyrene	2.138	2.137		-0.047	
Terphenyl-d14	1.459	1.492		2.262	
Butylbenzylphthalate	0.650	0.685		5.385	
3,3-Dichlorobenzidine	0.380	0.355		-6.579	
Benzo(a)anthracene	1.287	1.271		-1.243	
Chrysene	1.253	1.218		-2.793	
Bis(2-ethylhexyl)phthalate	0.816	0.835		2.328	
Di-n-octyl phthalate	1.428	1.412		-1.12	20.0
Benzo(b)fluoranthene	1.097	1.045		-4.74	
Benzo(k)fluoranthene	1.011	1.013		0.198	

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Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF062824 SAS No.: BF062824 SDG No.: BF062824

Instrument ID: BNA_F Calibration Date/Time: 6/28/2024 12 15:00

Lab File ID: BF138388.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	0.962	0.943		-1.975	20.0
Indeno(1,2,3-cd)pyrene	1.005	1.041		3.582	
Dibenzo(a,h)anthracene	0.811	0.857		5.672	
Benzo(g,h,i)perylene	0.794	0.831		4.66	
1,2,4,5-Tetrachlorobenzene	0.553	0.541		-2.17	
1,4-Dioxane	0.568	0.570		0.352	20.0
2,3,4,6-Tetrachlorophenol	0.284	0.290		2.113	
1-Methylnaphthalene	0.634	0.617		-2.681	

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:	ICVBF062824			SDG No.:	BF062824
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
BF138392.D	1		6/28/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40500		1000	8000	10000	ug/L
110-86-1	Pyridine	42500		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39300		4000	8000	10000	ug/L
62-53-3	Aniline	41300		1600	4000	5000	ug/L
108-95-2	Phenol	40600		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	40200		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	40300		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39000		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	39100		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39100		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40900		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40300		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39900		1400	4000	5000	ug/L
98-86-2	Acetophenone	38300		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40400		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38900		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40300		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	39900		1300	4000	5000	ug/L
78-59-1	Isophorone	39500		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	42100		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	40100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39800		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	39800		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	38300		1100	4000	5000	ug/L
65-85-0	Benzoic acid	40600		5500	8000	10000	ug/L
91-20-3	Naphthalene	38700		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	40000		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	38200		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF062824			SDG No.:	BF062824
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
BF138392.D	1		6/28/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	41400		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	39600		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	38800		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	36500		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	39800		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39200		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	38100		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	38400		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	41000		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	38400		930	4000	5000	ug/L
208-96-8	Acenaphthylene	38800		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	40000		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	41000		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39200		810	4000	5000	ug/L
Total PAH	Total PAH	629600		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	39200		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	41700		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	38800		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	41300		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	81300		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	38800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	36600		980	4000	5000	ug/L
86-73-7	Fluorene	36600		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	40900		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	40300		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	38500		890	4000	5000	ug/L
103-33-3	Azobenzene	39300		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	38900		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	37500		1100	4000	5000	ug/L
1912-24-9	Atrazine	41300		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF062824			SDG No.:	BF062824
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
BF138392.D	1		6/28/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	41600		1900	8000	10000	ug/L
85-01-8	Phenanthrene	38800		890	4000	5000	ug/L
120-12-7	Anthracene	38700		1100	4000	5000	ug/L
86-74-8	Carbazole	39400		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	40000		1500	4000	5000	ug/L
206-44-0	Fluoranthene	39400		1300	4000	5000	ug/L
92-87-5	Benzidine	10100		4100	8000	10000	ug/L
129-00-0	Pyrene	40500		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	42700		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	37400		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39200		940	4000	5000	ug/L
218-01-9	Chrysene	39400		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41200		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	39900		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40900		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39800		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	40300		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	39700		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	39900		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	38400		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	40500		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40400		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38700		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	79046	*	10-139		52697	SPK: -150
13127-88-3	Phenol-d6	79147	*	10-134		52765	SPK: -150
4165-60-0	Nitrobenzene-d5	79726	*	49-133		79726	SPK: -100
321-60-8	2-Fluorobiphenyl	74173	*	52-132		74173	SPK: -100

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF062824			SDG No.:	BF062824
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
BF138392.D	1		6/28/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	78909	*	32-145		52606	SPK: -150
1718-51-0	Terphenyl-d14	80881	*	36-145		80881	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	179240	6.875				
1146-65-2	Naphthalene-d8	728052	8.157				
15067-26-2	Acenaphthene-d10	398604	9.91				
1517-22-2	Phenanthrene-d10	636961	11.392				
1719-03-5	Chrysene-d12	247381	14.027				
1520-96-3	Perylene-d12	305372	15.492				

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Report of Analysis

Client:				Date Collected:	6/27/2024 12:00:00 AM
Project:				Date Received:	6/27/2024 12:00:00 AM
Client Sample ID:	PB161765BL			SDG No.:	BF062824
Lab Sample ID:	PB161765BL			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
BF138393.D	1	6/27/2024 12:00:00 AM	6/28/2024 12:00:00 AM	PB161765

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

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Report of Analysis

Client:				Date Collected:	6/27/2024 12:00:00 AM
Project:				Date Received:	6/27/2024 12:00:00 AM
Client Sample ID:	PB161765BL			SDG No.:	BF062824
Lab Sample ID:	PB161765BL			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
BF138393.D	1	6/27/2024 12:00:00 AM	6/28/2024 12:00:00 AM	PB161765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
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	169.4	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

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:	6/27/2024 12:00:00 AM
Project:				Date Received:	6/27/2024 12:00:00 AM
Client Sample ID:	PB161765BL			SDG No.:	BF062824
Lab Sample ID:	PB161765BL			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
BF138393.D	1	6/27/2024 12:00:00 AM	6/28/2024 12:00:00 AM	PB161765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
92-87-5	Benzidine	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	117.761		18-112	79		SPK: -150
13127-88-3	Phenol-d6	116.776		15-107	78		SPK: -150
4165-60-0	Nitrobenzene-d5	77.981		18-107	78		SPK: -100
321-60-8	2-Fluorobiphenyl	70.641		20-109	71		SPK: -100

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

Report of Analysis

Client:				Date Collected:	6/27/2024 12:00:00 AM
Project:				Date Received:	6/27/2024 12:00:00 AM
Client Sample ID:	PB161765BL			SDG No.:	BF062824
Lab Sample ID:	PB161765BL			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
BF138393.D	1	6/27/2024 12:00:00 AM	6/28/2024 12:00:00 AM	PB161765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	107.958		10-110		72	SPK: -150
1718-51-0	Terphenyl-d14	72.696		14-112		73	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	192083	6.869				
1146-65-2	Naphthalene-d8	809232	8.151				
15067-26-2	Acenaphthene-d10	471238	9.904				
1517-22-2	Phenanthrene-d10	777227	11.392				
1719-03-5	Chrysene-d12	314173	14.021				
1520-96-3	Perylene-d12	298487	15.492				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	98	J			2.263	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A			5.122	
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	130	J			17.033	

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.: BF062824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBF062824**							
SSTDICV040	ICVBF062824	Water	1,1-Biphenyl	38,100.000		910	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,2,4,5-Tetrachlorobenzene	38,400.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,2,4-Trichlorobenzene	38,300.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,2-Dichlorobenzene	39,000.000		880	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,3-Dichlorobenzene	39,100.000		800	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,4-Dichlorobenzene	39,100.000		840	5000	ug/L
SSTDICV040	ICVBF062824	Water	1,4-Dioxane	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	1-Methylnaphthalene	38,700.000		860	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,2-oxybis(1-Chloropropane)	39,900.000		1400	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,3,4,6-Tetrachlorophenol	40,400.000		790	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4,5-Trichlorophenol	39,200.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4,6-Trichlorophenol	39,800.000		890	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4-Dichlorophenol	39,800.000		880	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4-Dimethylphenol	40,100.000		1500	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4-Dinitrophenol	39,200.000		6400	10000	ug/L
SSTDICV040	ICVBF062824	Water	2,4-Dinitrotoluene	41,300.000		1500	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,6-Dinitrotoluene	40,000.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Chloronaphthalene	38,400.000		970	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Chlorophenol	40,300.000		710	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Methylnaphthalene	38,800.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Methylphenol	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Nitroaniline	41,000.000		1400	5000	ug/L
SSTDICV040	ICVBF062824	Water	2-Nitrophenol	42,100.000		2000	5000	ug/L
SSTDICV040	ICVBF062824	Water	3+4-Methylphenols	40,400.000		1200	10000	ug/L
SSTDICV040	ICVBF062824	Water	3,3-Dichlorobenzidine	37,400.000		1300	10000	ug/L
SSTDICV040	ICVBF062824	Water	3-Nitroaniline	41,000.000		1400	5000	ug/L
SSTDICV040	ICVBF062824	Water	4,6-Dinitro-2-methylphenol	40,300.000		3100	10000	ug/L
SSTDICV040	ICVBF062824	Water	4-Bromophenyl-phenylether	38,900.000		950	5000	ug/L
SSTDICV040	ICVBF062824	Water	4-Chloro-3-methylphenol	39,600.000		840	5000	ug/L
SSTDICV040	ICVBF062824	Water	4-Chloroaniline	40,000.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	4-Chlorophenyl-phenylether	36,600.000		980	5000	ug/L
SSTDICV040	ICVBF062824	Water	4-Nitroaniline	40,900.000		2000	5000	ug/L
SSTDICV040	ICVBF062824	Water	4-Nitrophenol	41,700.000		2000	10000	ug/L
SSTDICV040	ICVBF062824	Water	Acenaphthene	39,200.000		810	5000	ug/L
SSTDICV040	ICVBF062824	Water	Acenaphthylene	38,800.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	Acetophenone	38,300.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Aniline	41,300.000		1600	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

SDG No.: BF062824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF062824	Water	Anthracene	38,700.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Atrazine	41,300.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	Azobenzene	39,300.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzaldehyde	39,300.000		4000	10000	ug/L
SSTDICV040	ICVBF062824	Water	Benzidine	10,100.000		4100	10000	ug/L
SSTDICV040	ICVBF062824	Water	Benzo(a)anthracene	39,200.000		940	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzo(a)pyrene	40,300.000		1700	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzo(b)fluoranthene	40,900.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzo(g,h,i)perylene	39,700.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzo(k)fluoranthene	39,800.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Benzoic acid	40,600.000		5500	10000	ug/L
SSTDICV040	ICVBF062824	Water	Benzyl Alcohol	40,900.000		1600	10000	ug/L
SSTDICV040	ICVBF062824	Water	bis(2-Chloroethoxy)methane	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	bis(2-Chloroethyl)ether	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Bis(2-ethylhexyl)phthalate	41,200.000		1900	5000	ug/L
SSTDICV040	ICVBF062824	Water	Butylbenzylphthalate	42,700.000		2100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Caprolactam	41,400.000		1700	10000	ug/L
SSTDICV040	ICVBF062824	Water	Carbazole	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Chrysene	39,400.000		860	5000	ug/L
SSTDICV040	ICVBF062824	Water	Di-n-butylphthalate	40,000.000		1500	5000	ug/L
SSTDICV040	ICVBF062824	Water	Di-n-octyl phthalate	39,900.000		2500	10000	ug/L
SSTDICV040	ICVBF062824	Water	Dibenzo(a,h)anthracene	39,900.000		1200	5000	ug/L
SSTDICV040	ICVBF062824	Water	Dibenzofuran	38,800.000		930	5000	ug/L
SSTDICV040	ICVBF062824	Water	Diethylphthalate	38,800.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	Dimethylphthalate	38,400.000		930	5000	ug/L
SSTDICV040	ICVBF062824	Water	Fluoranthene	39,400.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	Fluorene	36,600.000		960	5000	ug/L
SSTDICV040	ICVBF062824	Water	Hexachlorobenzene	37,500.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Hexachlorobutadiene	38,200.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	Hexachlorocyclopentadiene	36,500.000		5000	10000	ug/L
SSTDICV040	ICVBF062824	Water	Hexachloroethane	40,300.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	Indeno(1,2,3-cd)pyrene	39,700.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	Isophorone	39,500.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	n-Nitroso-di-n-propylamine	38,900.000		1500	2500	ug/L
SSTDICV040	ICVBF062824	Water	n-Nitrosodimethylamine	40,500.000		1000	10000	ug/L
SSTDICV040	ICVBF062824	Water	n-Nitrosodiphenylamine	38,500.000		890	5000	ug/L
SSTDICV040	ICVBF062824	Water	Naphthalene	38,700.000		1000	5000	ug/L
SSTDICV040	ICVBF062824	Water	Nitrobenzene	39,900.000		1300	5000	ug/L
SSTDICV040	ICVBF062824	Water	Pentachlorophenol	41,600.000		1900	10000	ug/L
SSTDICV040	ICVBF062824	Water	Phenanthrene	38,800.000		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.: BF062824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF062824	Water	Phenol	40,600.000		930	5000	ug/L
SSTDICV040	ICVBF062824	Water	Pyrene	40,500.000		1100	5000	ug/L
SSTDICV040	ICVBF062824	Water	Pyridine	42,500.000		1600	5000	ug/L
SSTDICV040	ICVBF062824	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	81,300.000		2700	10000	ug/L
SSTDICV040	ICVBF062824	Water	Total PAH	629,600.000		17360	80000	ug/L
			Total Svoc :	**3,855,300.00**				
			Total Concentration:	**3,855,300.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF062824 SAS No.: BF062824 SDG No.: BF062824

Instrument ID: Calibration Date(s): 6/28/2024

Calibration Time(s): 13:01

LAB FILE ID: RRF2.5 = BF138384.D RRF005 = BF138385.D RRF010 = BF138386.D
RRF020 = BF138387.D RRF040 = BF138388.D RRF050 = BF138389.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.837	0.867	0.885	0.866	0.823	0.846	3.3
Pyridine		1.341	1.327	1.393	1.390	1.329	1.356	2.1
2-Fluorophenol		1.348	1.330	1.319	1.198	1.111	1.206	10.5
Benzaldehyde			1.192	1.128	0.958	0.876	1.003	14.9
Aniline		1.713	1.682	1.691	1.564	1.511	1.586	7.0
Phenol-d6		1.841	1.792	1.736	1.600	1.506	1.625	10.3
Phenol		1.953	1.909	1.867	1.696	1.591	1.731	10.2
bis(2-Chloroethyl)ether		1.505	1.430	1.456	1.352	1.285	1.360	8.0
2-Chlorophenol		1.464	1.409	1.406	1.280	1.205	1.295	10.4
1,2-Dichlorobenzene		1.623	1.538	1.528	1.347	1.252	1.373	14.2
1,3-Dichlorobenzene		1.688	1.631	1.587	1.478	1.371	1.483	10.6
1,4-Dichlorobenzene		1.711	1.639	1.604	1.460	1.372	1.487	11.3
Benzyl Alcohol		1.306	1.239	1.266	1.175	1.094	1.164	9.8
2-Methylphenol		1.176	1.156	1.134	1.062	1.005	1.073	7.8
2,2-oxybis(1-Chloropropane)		3.061	2.979	2.978	2.719	2.568	2.743	9.9
Acetophenone		0.535	0.502	0.484	0.437	0.411	0.454	11.8
3+4-Methylphenols			1.484	1.416	1.255	1.153	1.247	13.9
n-Nitroso-di-n-propylamine	1.103	1.139	1.109	1.073	0.998	0.933	1.024	9.0
Nitrobenzene-d5		0.410	0.403	0.405	0.383	0.367	0.385	5.5
Hexachloroethane		0.580	0.574	0.568	0.543	0.508	0.536	7.7
Nitrobenzene		0.421	0.412	0.414	0.389	0.377	0.392	6.4
Isophorone		0.772	0.752	0.739	0.693	0.666	0.710	6.2
2-Nitrophenol		0.147	0.165	0.178	0.176	0.171	0.169	6.3
2,4-Dimethylphenol		0.228	0.226	0.229	0.215	0.205	0.216	5.5
bis(2-Chloroethoxy)methane		0.478	0.456	0.453	0.420	0.398	0.427	8.3
2,4-Dichlorophenol		0.297	0.299	0.298	0.278	0.262	0.278	7.5
1,2,4-Trichlorobenzene		0.366	0.352	0.345	0.318	0.298	0.323	9.9
Benzoic acid			0.128	0.169	0.189	0.199	0.183	16.5
Naphthalene		1.168	1.123	1.095	0.991	0.921	1.011	11.8
4-Chloroaniline		0.396	0.370	0.377	0.345	0.332	0.353	8.3
Hexachlorobutadiene		0.221	0.213	0.207	0.191	0.182	0.194	10.6
Caprolactam		0.091	0.091	0.093	0.087	0.082	0.088	4.6
4-Chloro-3-methylphenol		0.324	0.317	0.318	0.288	0.277	0.296	7.9
2-Methylnaphthalene		0.771	0.735	0.716	0.632	0.591	0.653	13.3
Hexachlorocyclopentadiene			0.118	0.161	0.173	0.176	0.163	14.2
2,4,6-Trichlorophenol		0.364	0.360	0.382	0.356	0.340	0.352	5.8

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.: BF062824 SAS No.: BF062824 SDG No.: BF062824

Instrument ID: Calibration Date(s): 6/28/2024

Calibration Time(s): 13:01

LAB FILE ID: RRF2.5 = BF138384.D RRF005 = BF138385.D RRF010 = BF138386.D
RRF020 = BF138387.D RRF040 = BF138388.D RRF050 = BF138389.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl			1.490	1.411	1.203	1.108	1.257	14.7
2,4,5-Trichlorophenol		0.404	0.405	0.410	0.385	0.367	0.383	6.6
1,1-Biphenyl		1.747	1.657	1.642	1.465	1.358	1.493	12.8
2-Chloronaphthalene		1.297	1.231	1.240	1.114	1.056	1.139	10.4
2-Nitroaniline		0.349	0.370	0.392	0.369	0.363	0.367	4.3
Dimethylphthalate		1.445	1.364	1.396	1.241	1.184	1.285	8.9
Acenaphthylene		1.863	1.765	1.759	1.556	1.474	1.601	12.4
2,6-Dinitrotoluene		0.289	0.305	0.316	0.287	0.279	0.288	6.1
3-Nitroaniline		0.288	0.295	0.308	0.283	0.276	0.284	5.3
Acenaphthene		1.224	1.187	1.192	1.077	1.014	1.096	9.6
2,4-Dinitrophenol			0.037	0.074	0.098	0.109	0.094	35.2
4-Nitrophenol			0.152	0.188	0.191	0.188	0.184	8.8
Dibenzofuran		1.790	1.675	1.678	1.468	1.368	1.511	13.6
2,4-Dinitrotoluene		0.334	0.360	0.394	0.366	0.349	0.354	6.4
Diethylphthalate		1.372	1.306	1.318	1.168	1.110	1.202	10.9
4-Chlorophenyl-phenylether		0.695	0.675	0.663	0.565	0.530	0.609	12.7
Fluorene		1.406	1.337	1.284	1.104	1.050	1.200	13.5
4-Nitroaniline		0.243	0.259	0.287	0.265	0.260	0.261	5.6
4,6-Dinitro-2-methylphenol			0.057	0.083	0.100	0.108	0.096	23.1
n-Nitrosodiphenylamine		0.711	0.694	0.661	0.599	0.570	0.621	10.9
Azobenzene		1.404	1.383	1.373	1.248	1.187	1.269	9.3
2,4,6-Tribromophenol		0.172	0.176	0.181	0.163	0.153	0.163	8.3
4-Bromophenyl-phenylether		0.241	0.239	0.229	0.209	0.202	0.215	10.0
Hexachlorobenzene		0.281	0.258	0.250	0.228	0.219	0.237	11.4
Atrazine		0.202	0.196	0.191	0.182	0.156	0.174	14.2
Pentachlorophenol			0.091	0.119	0.128	0.127	0.120	12.4
Phenanthrene		1.118	1.068	1.063	0.954	0.911	0.976	11.2
Anthracene		1.105	1.075	1.057	0.954	0.906	0.974	11.0
Carbazole		0.884	0.861	0.896	0.804	0.765	0.808	9.6
Di-n-butylphthalate		1.084	1.101	1.123	1.023	0.979	1.025	8.3
Fluoranthene		0.957	0.947	0.975	0.880	0.820	0.875	10.4
Benzidine		0.264	0.132	0.193	0.032	0.203	0.160	52.9
Pyrene		2.334	2.327	2.350	2.137	1.995	2.138	9.9
Terphenyl-d14			1.716	1.680	1.492	1.339	1.459	14.3
Butylbenzylphthalate		0.577	0.639	0.732	0.685	0.656	0.650	8.1
3,3-Dichlorobenzidine		0.399	0.394	0.400	0.355	0.374	0.380	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.: BF062824 SAS No.: BF062824 SDG No.: BF062824

Instrument ID: Calibration Date(s): 6/28/2024

Calibration Time(s): 13:01

LAB FILE ID: RRF2.5 = BF138384.D RRF005 = BF138385.D RRF010 = BF138386.D
RRF020 = BF138387.D RRF040 = BF138388.D RRF050 = BF138389.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.388	1.347	1.347	1.271	1.239	1.287	6.0
Chrysene		1.377	1.289	1.324	1.218	1.200	1.253	6.3
Bis(2-ethylhexyl)phthalate		0.797	0.817	0.882	0.835	0.804	0.816	4.8
Di-n-octyl phthalate		1.425	1.426	1.477	1.412	1.420	1.428	1.9
Benzo(b)fluoranthene		1.198	1.123	1.211	1.045	1.067	1.097	7.4
Benzo(k)fluoranthene		1.095	1.089	1.034	1.013	0.933	1.011	6.9
Benzo(a)pyrene		1.007	1.005	1.007	0.943	0.923	0.962	4.4
Indeno(1,2,3-cd)pyrene		0.919	0.922	1.034	1.041	1.024	1.005	5.8
Dibenzo(a,h)anthracene		0.722	0.748	0.839	0.857	0.819	0.811	6.8
Benzo(g,h,i)perylene		0.728	0.729	0.795	0.831	0.810	0.794	5.9
1,2,4,5-Tetrachlorobenzene		0.633	0.608	0.597	0.541	0.513	0.553	11.0
1,4-Dioxane		0.584	0.602	0.607	0.570	0.540	0.568	5.4
2,3,4,6-Tetrachlorophenol		0.276	0.295	0.315	0.290	0.276	0.284	6.0
1-Methylnaphthalene		0.749	0.722	0.684	0.617	0.573	0.634	13.5

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.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 28 2024 12:00AM

Lab File ID: BF138388.D Time Analyzed: 17:50

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	168343	6.875	678290	8.16	367582	9.92
	UPPER LIMIT	336686	7.375	1356580	8.657	735164	10.416
	LOWER LIMIT	84171.5	6.375	339145	7.657	183791	9.416
	EPA SAMPLE NO.						
01	ICVBF062824	179240	6.88	728052	8.16	398604	9.91
02	PB161765BL	192083	6.87	809232	8.15	471238	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.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 28 2024 12:00AM

Lab File ID: BF138388.D Time Analyzed: 17:50

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	168343	6.875	678290	8.16	367582	9.92
	UPPER LIMIT	336686	7.375	1356580	8.657	735164	10.416
	LOWER LIMIT	84171.5	6.375	339145	7.657	183791	9.416
	EPA SAMPLE NO.						
01	ICVBF062824	179240	6.88	728052	8.16	398604	9.91
02	PB161765BL	192083	6.87	809232	8.15	471238	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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 28 2024 12:00AM

Lab File ID: BF138388.D Time Analyzed: 17:50

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	587988	11.398	233783	14.027	292128	15.492
	UPPER LIMIT	1175976	11.898	467566	14.527	584256	15.992
	LOWER LIMIT	293994	10.898	116891.5	13.527	146064	14.992
	EPA SAMPLE NO.						
01	ICVBF062824	636961	11.39	247381	14.03	305372	15.49
02	PB161765BL	777227	11.39	314173	14.02	298487	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.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 28 2024 12:00AM

Lab File ID: BF138388.D Time Analyzed: 17:50

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	587988	11.398	233783	14.027	292128	15.492
	UPPER LIMIT	1175976	11.898	467566	14.527	584256	15.992
	LOWER LIMIT	293994	10.898	116891.5	13.527	146064	14.992
	EPA SAMPLE NO.						
01	ICVBF062824	636961	11.39	247381	14.03	305372	15.49
02	PB161765BL	777227	11.39	314173	14.02	298487	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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBF062824

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

Lab File ID: BF138392.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_F Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 06/28/2024

Level: (low/med) LOW Time Analyzed: 17:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF062824	SSTDICV040	BF138392.D	06/28/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB161765BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF062824 SAS No.: BF062824 SDG NO.: BF062824

Lab File ID: BF138393.D Lab Sample ID: PB161765BL

Instrument ID: BNA_F Date Extracted: 06/27/2024

Matrix: (soil/water) Solid Date Analyzed: 06/28/2024

Level: (low/med) LOW Time Analyzed: 18:21

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

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

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BF062824

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBF062824	BF138392.D	2-Fluorophenol	150	79,046.00	52697	*	10	139
			Phenol-d6	150	79,147.00	52765	*	10	134
			Nitrobenzene-d5	100	79,726.00	79726	*	49	133
			2-Fluorobiphenyl	100	74,173.00	74173	*	52	132
			2,4,6-Tribromophenol	150	78,909.00	52606	*	32	145
			Terphenyl-d14	100	80,881.00	80881	*	36	145

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Surrogate Summary

SW-846

SDG No.: BF062824

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB161765BL	PB161765BL	BF138393.D	2-Fluorophenol	150	117.76	79		18	112
			Phenol-d6	150	116.78	78		15	107
			Nitrobenzene-d5	100	77.98	78		18	107
			2-Fluorobiphenyl	100	70.64	71		20	109
			2,4,6-Tribromophenol	150	107.96	72		10	110
			Terphenyl-d14	100	72.70	73		14	112

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF062824

Lab Code: CHEM SAS No.: BF062824 SDG NO.: BF062824

Lab File ID: BF138383.D DFTPP Injection Date: 06/28/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	45.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.1
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	6.6
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.4
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	17.2 (19.5) 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	BF138384.D	06/28/2024	13:01
SSTDICC005	SSTDICC005	BF138385.D	06/28/2024	13:30
SSTDICC010	SSTDICC010	BF138386.D	06/28/2024	14:00
SSTDICC020	SSTDICC020	BF138387.D	06/28/2024	14:29
SSTDICCC040	SSTDICCC040	BF138388.D	06/28/2024	15:00
SSTDICC050	SSTDICC050	BF138389.D	06/28/2024	15:30
SSTDICC060	SSTDICC060	BF138390.D	06/28/2024	15:59
SSTDICC080	SSTDICC080	BF138391.D	06/28/2024	16:29
ICVBF062824	SSTDICV040	BF138392.D	06/28/2024	17:50
PB161765BL	PB161765BL	BF138393.D	06/28/2024	18:21