284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: BNA_M Calibration Date/Time: 8/26/2024 12 15:02

Lab File ID: BM047348.D Init. Calib. Date(s):

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

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.482	0.495		2.697	
Pyridine	1.184	1.199		1.267	
2-Fluorophenol	1.042	1.042		0.0	
Benzaldehyde	0.783	0.756		-3.448	
Aniline	1.286	1.326		3.11	
Phenol-d6	1.420	1.436		1.127	
Phenol	1.397	1.403		0.429	20.0
bis(2-Chloroethyl)ether	1.211	1.225		1.156	
2-Chlorophenol	1.167	1.171		0.343	
1,2-Dichlorobenzene	1.369	1.386		1.242	
1,3-Dichlorobenzene	1.427	1.451		1.682	
1,4-Dichlorobenzene	1.445	1.468		1.592	20.0
Benzyl Alcohol	0.985	1.031		4.67	
2-Methylphenol	0.971	1.007		3.708	
2,2-oxybis(1-Chloropropane)	1.452	1.501		3.375	
Acetophenone	0.464	0.471		1.509	
3+4-Methylphenols	1.350	1.400		3.704	
n-Nitroso-di-n-propylamine	0.976	0.971	0.050	-0.512	
Nitrobenzene-d5	0.360	0.374		3.889	
Hexachloroethane	0.540	0.549		1.667	
Nitrobenzene	0.371	0.388		4.582	
Isophorone	0.681	0.701		2.937	
2-Nitrophenol	0.182	0.195		7.143	20.0
2,4-Dimethylphenol	0.206	0.214		3.883	
bis(2-Chloroethoxy)methane	0.417	0.433		3.837	
2,4-Dichlorophenol	0.319	0.342		7.21	20.0
1,2,4-Trichlorobenzene	0.369	0.380		2.981	
Benzoic acid	0.246	0.258		4.878	
Naphthalene	0.977	0.991		1.433	
4-Chloroaniline	0.363	0.378		4.132	
Hexachlorobutadiene	0.230	0.239		3.913	20.0
Caprolactam	0.103	0.105		1.942	
4-Chloro-3-methylphenol	0.324	0.337		4.012	20.0
2-Methylnaphthalene	0.712	0.725		1.826	
Hexachlorocyclopentadiene	0.187	0.205	0.050	9.626	
2,4,6-Trichlorophenol	0.406	0.428		5.419	20.0
2-Fluorobiphenyl	1.302	1.341		2.995	
2,4,5-Trichlorophenol	0.451	0.474		5.1	
1,1-Biphenyl	1.397	1.432		2.505	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: BNA_M Calibration Date/Time: 8/26/2024 12 15:02

Lab File ID: BM047348.D Init. Calib. Date(s):

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

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.094	1.116		2.011	
2-Nitroaniline	0.307	0.324		5.537	
Dimethylphthalate	1.378	1.401		1.669	
Acenaphthylene	1.591	1.641		3.143	
2,6-Dinitrotoluene	0.321	0.334		4.05	
3-Nitroaniline	0.296	0.311		5.068	
Acenaphthene	1.010	1.030		1.98	20.0
2,4-Dinitrophenol	0.198	0.208	0.050	5.051	
4-Nitrophenol	0.231	0.240	0.050	3.896	
Dibenzofuran	1.626	1.653		1.661	
2,4-Dinitrotoluene	0.415	0.426		2.651	
Diethylphthalate	1.359	1.375		1.177	
4-Chlorophenyl-phenylether	0.670	0.675		0.746	
Fluorene	1.316	1.332		1.216	
4-Nitroaniline	0.274	0.286		4.38	
4,6-Dinitro-2-methylphenol	0.123	0.136		10.569	
n-Nitrosodiphenylamine	0.547	0.574		4.936	20.0
Azobenzene	1.184	1.208		2.027	
2,4,6-Tribromophenol	0.241	0.246		2.075	
4-Bromophenyl-phenylether	0.211	0.221		4.739	
Hexachlorobenzene	0.244	0.254		4.098	
Atrazine	0.179	0.161		-10.056	
Pentachlorophenol	0.158	0.170		7.595	20.0
Phenanthrene	0.971	0.997		2.678	
Anthracene	0.947	0.982		3.696	
Carbazole	0.909	0.939		3.3	
Di-n-butylphthalate	1.106	1.154		4.34	
Fluoranthene	1.140	1.163		2.018	20.0
Benzidine	0.334	0.507		51.796	
Pyrene	1.534	1.598		4.172	
Terphenyl-d14	1.124	1.176		4.626	
Butylbenzylphthalate	0.600	0.642		7.0	
3,3-Dichlorobenzidine	0.439	0.479		9.112	
Benzo(a)anthracene	1.304	1.356		3.988	
Chrysene	1.227	1.266		3.178	
Bis(2-ethylhexyl)phthalate	0.848	0.892		5.189	
Di-n-octyl phthalate	1.428	1.521		6.513	20.0
Benzo(b)fluoranthene	1.167	1.216		4.199	
Benzo(k)fluoranthene	1.106	1.130		2.17	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: BNA_M Calibration Date/Time: 8/26/2024 12 15:02

Lab File ID: BM047348.D Init. Calib. Date(s):

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

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.009	1.053		4.361	20.0
Indeno(1,2,3-cd)pyrene	1.252	1.314		4.952	
Dibenzo(a,h)anthracene	1.014	1.061		4.635	
Benzo(g,h,i)perylene	1.054	1.110		5.313	
1,2,4,5-Tetrachlorobenzene	0.592	0.622		5.068	
1,4-Dioxane	0.427	0.424		-0.703	20.0
2,3,4,6-Tetrachlorophenol	0.370	0.383		3.514	
1-Methylnaphthalene	0.704	0.717		1.847	

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:	ICVBM082624		SDG No.:	BM082624	
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
BM047352.D	1		8/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40700		1000	8000	10000	ug/L
110-86-1	Pyridine	39900		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	44400		4000	8000	10000	ug/L
62-53-3	Aniline	40800		1600	4000	5000	ug/L
108-95-2	Phenol	40000		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	40200		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	39900		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39900		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	40200		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	40100		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	42000		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	41100		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40500		1400	4000	5000	ug/L
98-86-2	Acetophenone	40500		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	41300		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39400		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40500		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	41400		1300	4000	5000	ug/L
78-59-1	Isophorone	41100		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	42700		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	42100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41700		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	43200		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	41400		1100	4000	5000	ug/L
65-85-0	Benzoic acid	43300		5500	8000	10000	ug/L
91-20-3	Naphthalene	40800		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	42200		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	41600		1300	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBM082624		SDG No.:	BM082624	
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
BM047352.D	1		8/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	41000		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	41600		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	40700		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	42900		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	43100		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	43000		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	41900		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	41600		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	42600		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	41200		930	4000	5000	ug/L
208-96-8	Acenaphthylene	41600		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	42400		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42600		1400	4000	5000	ug/L
83-32-9	Acenaphthene	41300		810	4000	5000	ug/L
Total PAH	Total PAH	662100		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	41500		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	42600		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	40900		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	41200		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	83600		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	40800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40700		980	4000	5000	ug/L
86-73-7	Fluorene	40900		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	41600		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43200		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	41600		890	4000	5000	ug/L
103-33-3	Azobenzene	41000		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	42000		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	41900		1100	4000	5000	ug/L
1912-24-9	Atrazine	35400		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM082624			SDG No.:	BM082624
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
BM047352.D	1		8/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	43000		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40900		890	4000	5000	ug/L
120-12-7	Anthracene	41400		1100	4000	5000	ug/L
86-74-8	Carbazole	41300		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41200		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40400		1300	4000	5000	ug/L
92-87-5	Benzidine	48700		4100	8000	10000	ug/L
129-00-0	Pyrene	41200		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	41800		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	42900		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	41700		940	4000	5000	ug/L
218-01-9	Chrysene	41300		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41500		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	41900		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	41000		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	41500		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	41700		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42100		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	42000		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	42300		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42800		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39500		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41800		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	40500		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	79148	*	10-139		52765	SPK: -150
13127-88-3	Phenol-d6	80326	*	10-134		53551	SPK: -150
4165-60-0	Nitrobenzene-d5	82610	*	49-133		82610	SPK: -100
321-60-8	2-Fluorobiphenyl	83540	*	52-132		83540	SPK: -100

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM082624			SDG No.:	BM082624		
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
BM047352.D	1		8/26/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	82701	*	44-137		55134	SPK: -150
1718-51-0	Terphenyl-d14	83615	*	48-125		83615	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	261449	7.351				
1146-65-2	Naphthalene-d8	1028140	10.104				
15067-26-2	Acenaphthene-d10	688752	14.01				
1517-22-2	Phenanthrene-d10	1374519	16.774				
1719-03-5	Chrysene-d12	1030291	21.021				
1520-96-3	Perylene-d12	1157476	23.709				

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BM082624
Lab Sample ID:	PB162917BL			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	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
BM047353.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1	U	1	8	10	ug/L
110-86-1	Pyridine	1.6	U	1.6	4	5	ug/L
100-52-7	Benzaldehyde	4	U	4	8	10	ug/L
62-53-3	Aniline	1.6	U	1.6	4	5	ug/L
108-95-2	Phenol	0.93	U	0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.2	U	1.2	4	5	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.8	U	0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	1.6	U	1.6	8	10	ug/L
95-48-7	2-Methylphenol	1.1	U	1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.4	U	1.4	4	5	ug/L
98-86-2	Acetophenone	1.1	U	1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	1.2	U	1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.5	U	1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	1	U	1	4	5	ug/L
98-95-3	Nitrobenzene	1.3	U	1.3	4	5	ug/L
78-59-1	Isophorone	1.1	U	1.1	4	5	ug/L
88-75-5	2-Nitrophenol	2	U	2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	1.5	U	1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1	U	1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.1	U	1.1	4	5	ug/L
65-85-0	Benzoic acid	5.5	U	5.5	8	10	ug/L
91-20-3	Naphthalene	1	U	1	4	5	ug/L
106-47-8	4-Chloroaniline	1.3	U	1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	1.3	U	1.3	4	5	ug/L

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BM082624
Lab Sample ID:	PB162917BL			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	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
BM047353.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1.7	U	1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	1.1	4	5	ug/L
77-47-4	Hexachlorocyclopentadiene	5	U	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	1	U	1	4	5	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	4	5	ug/L
88-74-4	2-Nitroaniline	1.4	U	1.4	4	5	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	4	5	ug/L
208-96-8	Acenaphthylene	1	U	1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	1.2	4	5	ug/L
99-09-2	3-Nitroaniline	1.4	U	1.4	4	5	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	4	5	ug/L
Total PAH	Total PAH	17.36	U	17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	6.4	U	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	2	U	2	8	10	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	2.7	U	2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
84-66-2	Diethylphthalate	1	U	1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	4	5	ug/L
86-73-7	Fluorene	0.96	U	0.96	4	5	ug/L
100-01-6	4-Nitroaniline	2	U	2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.1	U	3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	4	5	ug/L
103-33-3	Azobenzene	1.2	U	1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	1.1	U	1.1	4	5	ug/L
1912-24-9	Atrazine	1.3	U	1.3	4	5	ug/L

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

Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BM082624
Lab Sample ID:	PB162917BL			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	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
BM047353.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	1.9	U	1.9	8	10	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	4	5	ug/L
120-12-7	Anthracene	1.1	U	1.1	4	5	ug/L
86-74-8	Carbazole	1.2	U	1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	1.5	U	1.5	4	5	ug/L
206-44-0	Fluoranthene	1.3	U	1.3	4	5	ug/L
92-87-5	Benzidine	4.1	U	4.1	8	10	ug/L
129-00-0	Pyrene	1.1	U	1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	2.1	U	2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.3	U	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	4	5	ug/L
218-01-9	Chrysene	0.86	U	0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	U	1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	2.5	U	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	1.1	U	1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	1.2	U	1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	1.7	U	1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1	U	1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	4	5	ug/L
123-91-1	1,4-Dioxane	1.3	U	1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	152.118		10-139		101	SPK: -150
13127-88-3	Phenol-d6	142.812		10-134		95	SPK: -150
4165-60-0	Nitrobenzene-d5	101.407		49-133		101	SPK: -100
321-60-8	2-Fluorobiphenyl	98.732		52-132		99	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BM082624
Lab Sample ID:	PB162917BL			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	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
BM047353.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	150.393		44-137		100	SPK: -150
1718-51-0	Terphenyl-d14	105.288		48-125		105	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	266712	7.351				
1146-65-2	Naphthalene-d8	957975	10.104				
15067-26-2	Acenaphthene-d10	646074	14.01				
1517-22-2	Phenanthrene-d10	1332896	16.774				
1719-03-5	Chrysene-d12	930328	21.015				
1520-96-3	Perylene-d12	873449	23.715				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.9	A			4.563	

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Hit Summary Sheet
SW-846

SDG No.: BM082624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBM082624**							
SSTDICV040	ICVBM082624	Water	1,1-Biphenyl	41,900.000		910	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,2,4,5-Tetrachlorobenzene	42,800.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,2,4-Trichlorobenzene	41,400.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,2-Dichlorobenzene	39,900.000		880	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,3-Dichlorobenzene	40,200.000		800	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,4-Dichlorobenzene	40,100.000		840	5000	ug/L
SSTDICV040	ICVBM082624	Water	1,4-Dioxane	39,500.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	1-Methylnaphthalene	40,500.000		860	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,2-oxybis(1-Chloropropane)	40,500.000		1400	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,3,4,6-Tetrachlorophenol	41,800.000		790	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4,5-Trichlorophenol	43,000.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4,6-Trichlorophenol	43,100.000		890	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4-Dichlorophenol	43,200.000		880	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4-Dimethylphenol	42,100.000		1500	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4-Dinitrophenol	41,500.000		6400	10000	ug/L
SSTDICV040	ICVBM082624	Water	2,4-Dinitrotoluene	41,200.000		1500	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,6-Dinitrotoluene	42,400.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Chloronaphthalene	41,600.000		970	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Chlorophenol	39,900.000		710	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Methylnaphthalene	40,700.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Methylphenol	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Nitroaniline	42,600.000		1400	5000	ug/L
SSTDICV040	ICVBM082624	Water	2-Nitrophenol	42,700.000		2000	5000	ug/L
SSTDICV040	ICVBM082624	Water	3+4-Methylphenols	41,300.000		1200	10000	ug/L
SSTDICV040	ICVBM082624	Water	3,3-Dichlorobenzidine	42,900.000		1300	10000	ug/L
SSTDICV040	ICVBM082624	Water	3-Nitroaniline	42,600.000		1400	5000	ug/L
SSTDICV040	ICVBM082624	Water	4,6-Dinitro-2-methylphenol	43,200.000		3100	10000	ug/L
SSTDICV040	ICVBM082624	Water	4-Bromophenyl-phenylether	42,000.000		950	5000	ug/L
SSTDICV040	ICVBM082624	Water	4-Chloro-3-methylphenol	41,600.000		840	5000	ug/L
SSTDICV040	ICVBM082624	Water	4-Chloroaniline	42,200.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	4-Chlorophenyl-phenylether	40,700.000		980	5000	ug/L
SSTDICV040	ICVBM082624	Water	4-Nitroaniline	41,600.000		2000	5000	ug/L
SSTDICV040	ICVBM082624	Water	4-Nitrophenol	42,600.000		2000	10000	ug/L
SSTDICV040	ICVBM082624	Water	Acenaphthene	41,300.000		810	5000	ug/L
SSTDICV040	ICVBM082624	Water	Acenaphthylene	41,600.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	Acetophenone	40,500.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Aniline	40,800.000		1600	5000	ug/L

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

SDG No.: BM082624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM082624	Water	Anthracene	41,400.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Atrazine	35,400.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	Azobenzene	41,000.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzaldehyde	44,400.000		4000	10000	ug/L
SSTDICV040	ICVBM082624	Water	Benzidine	48,700.000		4100	10000	ug/L
SSTDICV040	ICVBM082624	Water	Benzo(a)anthracene	41,700.000		940	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzo(a)pyrene	41,700.000		1700	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzo(b)fluoranthene	41,000.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzo(g,h,i)perylene	42,300.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzo(k)fluoranthene	41,500.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Benzoic acid	43,300.000		5500	10000	ug/L
SSTDICV040	ICVBM082624	Water	Benzyl Alcohol	42,000.000		1600	10000	ug/L
SSTDICV040	ICVBM082624	Water	bis(2-Chloroethoxy)methane	41,700.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	bis(2-Chloroethyl)ether	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Bis(2-ethylhexyl)phthalate	41,500.000		1900	5000	ug/L
SSTDICV040	ICVBM082624	Water	Butylbenzylphthalate	41,800.000		2100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Caprolactam	41,000.000		1700	10000	ug/L
SSTDICV040	ICVBM082624	Water	Carbazole	41,300.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Chrysene	41,300.000		860	5000	ug/L
SSTDICV040	ICVBM082624	Water	Di-n-butylphthalate	41,200.000		1500	5000	ug/L
SSTDICV040	ICVBM082624	Water	Di-n-octyl phthalate	41,900.000		2500	10000	ug/L
SSTDICV040	ICVBM082624	Water	Dibenzo(a,h)anthracene	42,000.000		1200	5000	ug/L
SSTDICV040	ICVBM082624	Water	Dibenzofuran	40,900.000		930	5000	ug/L
SSTDICV040	ICVBM082624	Water	Diethylphthalate	40,800.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	Dimethylphthalate	41,200.000		930	5000	ug/L
SSTDICV040	ICVBM082624	Water	Fluoranthene	40,400.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	Fluorene	40,900.000		960	5000	ug/L
SSTDICV040	ICVBM082624	Water	Hexachlorobenzene	41,900.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Hexachlorobutadiene	41,600.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	Hexachlorocyclopentadiene	42,900.000		5000	10000	ug/L
SSTDICV040	ICVBM082624	Water	Hexachloroethane	40,500.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	Indeno(1,2,3-cd)pyrene	42,100.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	Isophorone	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	n-Nitroso-di-n-propylamine	39,400.000		1500	2500	ug/L
SSTDICV040	ICVBM082624	Water	n-Nitrosodimethylamine	40,700.000		1000	10000	ug/L
SSTDICV040	ICVBM082624	Water	n-Nitrosodiphenylamine	41,600.000		890	5000	ug/L
SSTDICV040	ICVBM082624	Water	Naphthalene	40,800.000		1000	5000	ug/L
SSTDICV040	ICVBM082624	Water	Nitrobenzene	41,400.000		1300	5000	ug/L
SSTDICV040	ICVBM082624	Water	Pentachlorophenol	43,000.000		1900	10000	ug/L
SSTDICV040	ICVBM082624	Water	Phenanthrene	40,900.000		890	5000	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: BM082624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM082624	Water	Phenol	40,000.000		930	5000	ug/L
SSTDICV040	ICVBM082624	Water	Pyrene	41,200.000		1100	5000	ug/L
SSTDICV040	ICVBM082624	Water	Pyridine	39,900.000		1600	5000	ug/L
SSTDICV040	ICVBM082624	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	83,600.000		2700	10000	ug/L
SSTDICV040	ICVBM082624	Water	Total PAH	662,100.000		17360	80000	ug/L
			Total Svoc :	**4,065,800.00**				
			Total Concentration:	**4,065,800.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: Calibration Date(s): 8/26/2024

Calibration Time(s): 12:23

LAB FILE ID: RRF2.5 = BM047344.D RRF005 = BM047345.D RRF010 = BM047346.D
RRF020 = BM047347.D RRF040 = BM047348.D RRF050 = BM047349.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.483	0.481	0.511	0.495	0.462	0.482	3.5
Pyridine		1.216	1.177	1.260	1.199	1.133	1.184	3.9
2-Fluorophenol		1.147	1.083	1.102	1.042	0.963	1.042	6.9
Benzaldehyde		1.024	0.958	0.926	0.756	0.666	0.783	24.1
Aniline		1.333	1.336	1.435	1.326	1.239	1.286	9.0
Phenol-d6		1.441	1.447	1.508	1.436	1.356	1.420	3.8
Phenol		1.415	1.436	1.487	1.403	1.325	1.397	4.0
bis(2-Chloroethyl)ether		1.262	1.223	1.275	1.225	1.160	1.211	4.0
2-Chlorophenol		1.236	1.207	1.249	1.171	1.099	1.167	5.8
1,2-Dichlorobenzene		1.486	1.439	1.478	1.386	1.271	1.369	7.6
1,3-Dichlorobenzene		1.552	1.471	1.494	1.451	1.336	1.427	6.2
1,4-Dichlorobenzene		1.559	1.496	1.523	1.468	1.356	1.445	6.2
Benzyl Alcohol		0.851	0.921	1.060	1.031	0.999	0.985	7.4
2-Methylphenol		0.928	0.958	1.063	1.007	0.951	0.971	5.1
2,2-oxybis(1-Chloropropane)		1.472	1.512	1.580	1.501	1.398	1.452	6.4
Acetophenone		0.498	0.485	0.484	0.471	0.433	0.464	5.9
3+4-Methylphenols		1.272	1.334	1.473	1.400	1.328	1.350	5.1
n-Nitroso-di-n-propylamine	1.043	0.975	1.017	1.083	0.971	0.918	0.976	7.1
Nitrobenzene-d5		0.370	0.371	0.375	0.374	0.341	0.360	4.4
Hexachloroethane		0.570	0.544	0.576	0.549	0.515	0.540	5.1
Nitrobenzene		0.383	0.377	0.389	0.388	0.351	0.371	5.0
Isophorone		0.698	0.680	0.729	0.701	0.652	0.681	4.6
2-Nitrophenol		0.165	0.172	0.188	0.195	0.181	0.182	6.0
2,4-Dimethylphenol		0.200	0.202	0.217	0.214	0.201	0.206	3.5
bis(2-Chloroethoxy)methane		0.427	0.424	0.442	0.433	0.397	0.417	4.7
2,4-Dichlorophenol		0.283	0.308	0.333	0.342	0.318	0.319	6.2
1,2,4-Trichlorobenzene		0.385	0.372	0.379	0.380	0.353	0.369	3.8
Benzoic acid			0.205	0.247	0.258	0.250	0.246	8.5
Naphthalene		1.035	1.011	1.017	0.991	0.917	0.977	5.1
4-Chloroaniline		0.349	0.358	0.388	0.378	0.355	0.363	4.3
Hexachlorobutadiene		0.235	0.227	0.236	0.239	0.220	0.230	3.0
Caprolactam		0.101	0.094	0.116	0.105	0.103	0.103	6.6
4-Chloro-3-methylphenol		0.310	0.314	0.353	0.337	0.319	0.324	5.0
2-Methylnaphthalene		0.726	0.726	0.754	0.725	0.679	0.712	4.1
Hexachlorocyclopentadiene			0.154	0.173	0.205	0.189	0.187	10.6
2,4,6-Trichlorophenol		0.382	0.387	0.415	0.428	0.402	0.406	4.1

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.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: Calibration Date(s): 8/26/2024

Calibration Time(s): 12:23

LAB FILE ID: RRF2.5 = BM047344.D RRF005 = BM047345.D RRF010 = BM047346.D
RRF020 = BM047347.D RRF040 = BM047348.D RRF050 = BM047349.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.419	1.345	1.315	1.341	1.221	1.302	5.7
2,4,5-Trichlorophenol		0.433	0.434	0.463	0.474	0.443	0.451	3.4
1,1-Biphenyl		1.494	1.433	1.423	1.432	1.312	1.397	4.8
2-Chloronaphthalene		1.170	1.129	1.128	1.116	1.027	1.094	5.0
2-Nitroaniline		0.293	0.296	0.328	0.324	0.301	0.307	4.7
Dimethylphthalate		1.462	1.385	1.457	1.401	1.313	1.378	4.9
Acenaphthylene		1.665	1.626	1.661	1.641	1.502	1.591	4.7
2,6-Dinitrotoluene		0.317	0.309	0.340	0.334	0.315	0.321	3.7
3-Nitroaniline		0.279	0.278	0.321	0.311	0.293	0.296	5.3
Acenaphthene		1.065	1.037	1.045	1.030	0.951	1.010	4.5
2,4-Dinitrophenol			0.152	0.198	0.208	0.206	0.198	11.5
4-Nitrophenol			0.187	0.245	0.240	0.237	0.231	9.7
Dibenzofuran		1.763	1.679	1.701	1.653	1.518	1.626	6.0
2,4-Dinitrotoluene		0.416	0.410	0.457	0.426	0.403	0.415	5.3
Diethylphthalate		1.461	1.355	1.487	1.375	1.289	1.359	6.6
4-Chlorophenyl-phenylether		0.729	0.673	0.698	0.675	0.633	0.670	5.3
Fluorene		1.447	1.352	1.398	1.332	1.235	1.316	7.0
4-Nitroaniline		0.255	0.252	0.314	0.286	0.272	0.274	7.8
4,6-Dinitro-2-methylphenol		0.099	0.109	0.131	0.136	0.126	0.123	10.9
n-Nitrosodiphenylamine		0.559	0.567	0.565	0.574	0.517	0.547	4.5
Azobenzene		1.228	1.221	1.292	1.208	1.119	1.184	6.2
2,4,6-Tribromophenol		0.250	0.239	0.262	0.246	0.232	0.241	5.1
4-Bromophenyl-phenylether		0.211	0.213	0.216	0.221	0.201	0.211	3.1
Hexachlorobenzene		0.254	0.247	0.249	0.254	0.232	0.244	3.9
Atrazine		0.198	0.193	0.195	0.161	0.148	0.179	12.7
Pentachlorophenol		0.138	0.148	0.164	0.170	0.157	0.158	6.9
Phenanthrene		1.034	1.006	1.004	0.997	0.915	0.971	5.3
Anthracene		0.980	0.984	0.990	0.982	0.893	0.947	5.0
Carbazole		0.969	0.927	0.970	0.939	0.846	0.909	6.1
Di-n-butylphthalate		1.155	1.117	1.201	1.154	1.039	1.106	6.1
Fluoranthene		1.269	1.170	1.215	1.163	1.039	1.140	7.7
Benzidine		0.298	0.251	0.259	0.507	0.206	0.334	32.6
Pyrene		1.480	1.491	1.575	1.598	1.526	1.534	3.0
Terphenyl-d14		1.074	1.100	1.170	1.176	1.105	1.124	3.5
Butylbenzylphthalate		0.551	0.567	0.631	0.642	0.597	0.600	5.6
3,3-Dichlorobenzidine		0.457	0.431	0.459	0.479	0.393	0.439	6.6

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.: BM082624 SAS No.: BM082624 SDG No.: BM082624

Instrument ID: Calibration Date(s): 8/26/2024

Calibration Time(s): 12:23

LAB FILE ID: RRF2.5 = BM047344.D RRF005 = BM047345.D RRF010 = BM047346.D
RRF020 = BM047347.D RRF040 = BM047348.D RRF050 = BM047349.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.337	1.284	1.355	1.356	1.241	1.304	3.5
Chrysene		1.283	1.230	1.259	1.266	1.156	1.227	3.8
Bis(2-ethylhexyl)phthalate		0.856	0.828	0.874	0.892	0.821	0.848	3.3
Di-n-octyl phthalate		1.457	1.372	1.398	1.521	1.383	1.428	3.6
Benzo(b)fluoranthene		1.154	1.156	1.219	1.216	1.131	1.167	3.0
Benzo(k)fluoranthene		1.161	1.123	1.183	1.130	1.032	1.106	5.5
Benzo(a)pyrene		1.024	1.002	1.040	1.053	0.963	1.009	3.2
Indeno(1,2,3-cd)pyrene		1.317	1.245	1.213	1.314	1.194	1.252	3.8
Dibenzo(a,h)anthracene		1.078	1.021	0.993	1.061	0.959	1.014	4.2
Benzo(g,h,i)perylene		1.111	1.036	1.012	1.110	1.005	1.054	4.1
1,2,4,5-Tetrachlorobenzene		0.599	0.590	0.587	0.622	0.569	0.592	2.7
1,4-Dioxane		0.479	0.453	0.449	0.424	0.390	0.427	8.2
2,3,4,6-Tetrachlorophenol		0.363	0.355	0.395	0.383	0.364	0.370	3.9
1-Methylnaphthalene		0.726	0.723	0.748	0.717	0.666	0.704	4.7

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.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

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

Lab File ID: BM047348.D Time Analyzed: 18:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	250362	7.351	992556	10.10	673216	14.01
	UPPER LIMIT	500724	7.851	1985112	10.604	1346432	14.51
	LOWER LIMIT	125181	6.851	496278	9.604	336608	13.51
	EPA SAMPLE NO.						
01	ICVBM082624	261449	7.35	1.02814e	10.10	688752	14.01
02	PB162917BL	266712	7.35	957975	10.10	646074	14.01

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.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

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

Lab File ID: BM047348.D Time Analyzed: 18:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	250362	7.351	992556	10.10	673216	14.01
	UPPER LIMIT	500724	7.851	1985112	10.604	1346432	14.51
	LOWER LIMIT	125181	6.851	496278	9.604	336608	13.51
	EPA SAMPLE NO.						
01	ICVBM082624	261449	7.35	1.02814e	10.10	688752	14.01
02	PB162917BL	266712	7.35	957975	10.10	646074	14.01

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.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

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

Lab File ID: BM047348.D Time Analyzed: 18:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1.33014e+0(	16.774	999229	21.021	1.11798e+0(	23.715
	UPPER LIMIT	2660280	17.274	1998458	21.521	2235960	24.215
	LOWER LIMIT	665070	16.274	499614.5	20.521	558990	23.215
	EPA SAMPLE NO.						
01	ICVBM082624	1.37452	16.77	1.03029e+	21.02	1.15748e+	23.71
02	PB162917BL	1.3329e	16.77	930328	21.02	873449	23.72

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.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

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

Lab File ID: BM047348.D Time Analyzed: 18:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1.33014e+0(	16.774	999229	21.021	1.11798e+0(	23.715
	UPPER LIMIT	2660280	17.274	1998458	21.521	2235960	24.215
	LOWER LIMIT	665070	16.274	499614.5	20.521	558990	23.215
	EPA SAMPLE NO.						
01	ICVBM082624	1.37452	16.77	1.03029e+	21.02	1.15748e+	23.71
02	PB162917BL	1.3329e	16.77	930328	21.02	873449	23.72

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.

ICVBM082624

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

Lab File ID: BM047352.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 08/26/2024

Level: (low/med) LOW Time Analyzed: 18:23

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM082624	SSTDICV040	BM047352.D	08/26/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162917BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM082624 SAS No.: BM082624 SDG NO.: BM082624

Lab File ID: BM047353.D Lab Sample ID: PB162917BL

Instrument ID: BNA_M Date Extracted: 08/22/2024

Matrix: (soil/water) water Date Analyzed: 08/26/2024

Level: (low/med) LOW Time Analyzed: 19:03

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.: BM082624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBM082624	BM047352.D	2-Fluorophenol	150	79,148.00	52765	*	10	139
			Phenol-d6	150	80,326.00	53551	*	10	134
			Nitrobenzene-d5	100	82,610.00	82610	*	49	133
			2-Fluorobiphenyl	100	83,540.00	83540	*	52	132
			2,4,6-Tribromophenol	150	82,701.00	55134	*	44	137
			Terphenyl-d14	100	83,615.00	83615	*	48	125

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Surrogate Summary

SW-846

SDG No.: BM082624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB162917BL	PB162917BL	BM047353.D	2-Fluorophenol	150	152.12	101		10	139
			Phenol-d6	150	142.81	95		10	134
			Nitrobenzene-d5	100	101.41	101		49	133
			2-Fluorobiphenyl	100	98.73	99		52	132
			2,4,6-Tribromophenol	150	150.39	100		44	137
			Terphenyl-d14	100	105.29	105		48	125

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM082624

Lab Code: CHEM SAS No.: BM082624 SDG NO.: BM082624

Lab File ID: BM047343.D DFTPP Injection Date: 08/26/2024

Instrument ID: BNA_M DFTPP Injection Time: 11:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.4
68	Less than 2.0% of mass 69	0.4 (1.3) 1
69	Mass 69 relative abundance	30.7
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	38.3
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	64
443	15.0 - 24.0% of mass 442	12.5 (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	BM047344.D	08/26/2024	12:23
SSTDICC005	SSTDICC005	BM047345.D	08/26/2024	13:03
SSTDICC010	SSTDICC010	BM047346.D	08/26/2024	13:42
SSTDICC020	SSTDICC020	BM047347.D	08/26/2024	14:22
SSTDICCC040	SSTDICCC040	BM047348.D	08/26/2024	15:02
SSTDICC050	SSTDICC050	BM047349.D	08/26/2024	15:42
SSTDICC060	SSTDICC060	BM047350.D	08/26/2024	16:22
SSTDICC080	SSTDICC080	BM047351.D	08/26/2024	17:02
ICVBM082624	SSTDICV040	BM047352.D	08/26/2024	18:23
PB162917BL	PB162917BL	BM047353.D	08/26/2024	19:03