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.: BP052224 SAS No.: BP052224 SDG No.: BP052224

Instrument ID: BNA_P Calibration Date/Time: 5/22/2024 12 17:49

Lab File ID: BP020440.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	0.567	0.558		-1.587	
Pyridine	1.175	1.125		-4.255	
2-Fluorophenol	1.083	1.094		1.016	
Benzaldehyde	0.857	0.821		-4.201	
Aniline	1.441	1.433		-0.555	
Phenol-d6	1.517	1.513		-0.264	
Phenol	1.529	1.523		-0.392	20.0
bis(2-Chloroethyl)ether	1.217	1.251		2.794	
2-Chlorophenol	1.216	1.231		1.234	
1,2-Dichlorobenzene	1.434	1.419		-1.046	
1,3-Dichlorobenzene	1.461	1.472		0.753	
1,4-Dichlorobenzene	1.498	1.492		-0.401	20.0
Benzyl Alcohol	1.253	1.274		1.676	
2-Methylphenol	1.017	1.032		1.475	
2,2-oxybis(1-Chloropropane)	1.394	1.445		3.659	
Acetophenone	0.510	0.512		0.392	
3+4-Methylphenols	1.401	1.431		2.141	
n-Nitroso-di-n-propylamine	1.037	1.054	0.050	1.639	
Nitrobenzene-d5	0.418	0.428		2.392	
Hexachloroethane	0.569	0.589		3.515	
Nitrobenzene	0.412	0.421		2.184	
Isophorone	0.694	0.717		3.314	
2-Nitrophenol	0.170	0.178		4.706	20.0
2,4-Dimethylphenol	0.197	0.202		2.538	
bis(2-Chloroethoxy)methane	0.401	0.426		6.234	
2,4-Dichlorophenol	0.296	0.306		3.378	20.0
1,2,4-Trichlorobenzene	0.369	0.378		2.439	
Benzoic acid	0.207	0.209		0.966	
Naphthalene	1.010	1.014		0.396	
4-Chloroaniline	0.342	0.352		2.924	
Hexachlorobutadiene	0.260	0.278		6.923	20.0
Caprolactam	0.084	0.081		-3.571	
4-Chloro-3-methylphenol	0.342	0.338		-1.17	20.0
2-Methylnaphthalene	0.692	0.703		1.59	
Hexachlorocyclopentadiene	0.198	0.233	0.050	17.677	
2,4,6-Trichlorophenol	0.395	0.418		5.823	20.0
2-Fluorobiphenyl	1.447	1.524		5.321	
2,4,5-Trichlorophenol	0.434	0.458		5.53	
1,1-Biphenyl	1.409	1.480		5.039	

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Instrument ID: BNA_P Calibration Date/Time: 5/22/2024 12 17:49

Lab File ID: BP020440.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	1.132	1.144		1.06	
2-Nitroaniline	0.335	0.342		2.09	
Dimethylphthalate	1.371	1.389		1.313	
Acenaphthylene	1.601	1.639		2.374	
2,6-Dinitrotoluene	0.307	0.314		2.28	
3-Nitroaniline	0.264	0.268		1.515	
Acenaphthene	1.019	1.037		1.766	20.0
2,4-Dinitrophenol	0.167	0.168	0.050	0.599	
4-Nitrophenol	0.179	0.182	0.050	1.676	
Dibenzofuran	1.644	1.671		1.642	
2,4-Dinitrotoluene	0.410	0.414		0.976	
Diethylphthalate	1.347	1.386		2.895	
4-Chlorophenyl-phenylether	0.733	0.752		2.592	
Fluorene	1.335	1.317		-1.348	
4-Nitroaniline	0.240	0.244		1.667	
4,6-Dinitro-2-methylphenol	0.120	0.129		7.5	
n-Nitrosodiphenylamine	0.553	0.573		3.617	20.0
Azobenzene	1.304	1.312		0.613	
2,4,6-Tribromophenol	0.260	0.266		2.308	
4-Bromophenyl-phenylether	0.226	0.244		7.965	
Hexachlorobenzene	0.267	0.275		2.996	
Atrazine	0.161	0.170		5.59	
Pentachlorophenol	0.151	0.164		8.609	20.0
Phenanthrene	0.964	0.974		1.037	
Anthracene	0.946	0.979		3.488	
Carbazole	0.846	0.880		4.019	
Di-n-butylphthalate	1.016	1.180		16.142	
Fluoranthene	1.123	1.196		6.5	20.0
Benzidine	0.280	0.406		45.0	
Pyrene	1.353	1.392		2.882	
Terphenyl-d14	1.169	1.205		3.08	
Butylbenzylphthalate	0.483	0.550		13.872	
3,3-Dichlorobenzidine	0.426	0.465		9.155	
Benzo(a)anthracene	1.249	1.286		2.962	
Chrysene	1.229	1.232		0.244	
Bis(2-ethylhexyl)phthalate	0.699	0.855		22.318	
Di-n-octyl phthalate	1.164	1.386		19.072	20.0
Benzo(b)fluoranthene	1.143	1.212		6.037	
Benzo(k)fluoranthene	1.129	1.177		4.252	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG No.: BP052224

Instrument ID: BNA_P Calibration Date/Time: 5/22/2024 12 17:49

Lab File ID: BP020440.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	1.012	1.055		4.249	20.0
Indeno(1,2,3-cd)pyrene	1.364	1.355		-0.66	
Dibenzo(a,h)anthracene	1.124	1.134		0.89	
Benzo(g,h,i)perylene	1.153	1.126		-2.342	
1,2,4,5-Tetrachlorobenzene	0.650	0.694		6.769	
1,4-Dioxane	0.474	0.451		-4.852	20.0
2,3,4,6-Tetrachlorophenol	0.379	0.382		0.792	
1-Methylnaphthalene	0.686	0.697		1.603	

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:	ICVBP052224			SDG No.:	BP052224
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
BP020444.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	37400		1000	8000	10000	ug/L
110-86-1	Pyridine	36100		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	32700		4000	8000	10000	ug/L
62-53-3	Aniline	43700		1600	4000	5000	ug/L
108-95-2	Phenol	37800		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38000		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	37900		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	36500		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	37000		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	36800		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	37700		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	38300		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39000		1400	4000	5000	ug/L
98-86-2	Acetophenone	38700		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	38200		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37900		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	37400		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	36700		1300	4000	5000	ug/L
78-59-1	Isophorone	39100		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	39700		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	41600		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39500		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40100		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	37500		1100	4000	5000	ug/L
65-85-0	Benzoic acid	37300		5500	8000	10000	ug/L
91-20-3	Naphthalene	36900		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	42700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	35500		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBP052224			SDG No.:	BP052224
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
BP020444.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	43900		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	39400		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	37900		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	44400		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	38800		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	38800		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	38000		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	36300		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	40000		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39100		930	4000	5000	ug/L
208-96-8	Acenaphthylene	41000		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	38200		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	42100		1400	4000	5000	ug/L
83-32-9	Acenaphthene	36700		810	4000	5000	ug/L
Total PAH	Total PAH	612500		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	40200		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	46300		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	37900		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	40000		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	78200		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39700		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38300		980	4000	5000	ug/L
86-73-7	Fluorene	37900		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	45100		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	39300		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	37000		890	4000	5000	ug/L
103-33-3	Azobenzene	39600		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	36700		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	35600		1100	4000	5000	ug/L
1912-24-9	Atrazine	51400		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBP052224			SDG No.:	BP052224
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
BP020444.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	38900		1900	8000	10000	ug/L
85-01-8	Phenanthrene	38400		890	4000	5000	ug/L
120-12-7	Anthracene	40100		1100	4000	5000	ug/L
86-74-8	Carbazole	40200		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	42600		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40800		1300	4000	5000	ug/L
92-87-5	Benzidine	64800		4100	8000	10000	ug/L
129-00-0	Pyrene	35500		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	41700		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	42200		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39500		940	4000	5000	ug/L
218-01-9	Chrysene	38400		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43400		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	44000		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	38100		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39000		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39900		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	38000		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	37500		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	34800		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37900		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	38100		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40900		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	35400		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	75364	*	10-139		50243	SPK: -150
13127-88-3	Phenol-d6	70767	*	10-134		47178	SPK: -150
4165-60-0	Nitrobenzene-d5	75054	*	49-133		75054	SPK: -100
321-60-8	2-Fluorobiphenyl	71969	*	52-132		71969	SPK: -100

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBP052224			SDG No.:	BP052224		
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
BP020444.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	79364	*	32-145		52909	SPK: -150
1718-51-0	Terphenyl-d14	73467	*	36-145		73467	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	142103	7.552				
1146-65-2	Naphthalene-d8	550869	10.322				
15067-26-2	Acenaphthene-d10	366184	14.228				
1517-22-2	Phenanthrene-d10	783710	17.075				
1719-03-5	Chrysene-d12	778996	21.551				
1520-96-3	Perylene-d12	886435	24.851				

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Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160983BL			SDG No.:	BP052224
Lab Sample ID:	PB160983BL			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
BP020445.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160983

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:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160983BL			SDG No.:	BP052224
Lab Sample ID:	PB160983BL			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
BP020445.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160983

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

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160983BL			SDG No.:	BP052224
Lab Sample ID:	PB160983BL			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
BP020445.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160983

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	148.067		10-139		99	SPK: -150
13127-88-3	Phenol-d6	137.043		10-134		91	SPK: -150
4165-60-0	Nitrobenzene-d5	81.281		49-133		81	SPK: -100
321-60-8	2-Fluorobiphenyl	80.271		52-132		80	SPK: -100

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160983BL			SDG No.:	BP052224
Lab Sample ID:	PB160983BL			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
BP020445.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160983

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	138.302		32-145		92	SPK: -150
1718-51-0	Terphenyl-d14	91.612		36-145		92	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	125899	7.558				
1146-65-2	Naphthalene-d8	495487	10.328				
15067-26-2	Acenaphthene-d10	325482	14.228				
1517-22-2	Phenanthrene-d10	693213	17.069				
1719-03-5	Chrysene-d12	538485	21.563				
1520-96-3	Perylene-d12	516034	24.857				

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.: BP052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBP052224**							
SSTDICV040	ICVBP052224	Water	1,1-Biphenyl	38,000.000		910	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,2,4,5-Tetrachlorobenzene	37,900.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,2,4-Trichlorobenzene	37,500.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,2-Dichlorobenzene	36,500.000		880	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,3-Dichlorobenzene	37,000.000		800	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,4-Dichlorobenzene	36,800.000		840	5000	ug/L
SSTDICV040	ICVBP052224	Water	1,4-Dioxane	38,100.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	1-Methylnaphthalene	35,400.000		860	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,2-oxybis(1-Chloropropane)	39,000.000		1400	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,3,4,6-Tetrachlorophenol	40,900.000		790	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4,5-Trichlorophenol	38,800.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4,6-Trichlorophenol	38,800.000		890	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4-Dichlorophenol	40,100.000		880	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4-Dimethylphenol	41,600.000		1500	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4-Dinitrophenol	40,200.000		6400	10000	ug/L
SSTDICV040	ICVBP052224	Water	2,4-Dinitrotoluene	40,000.000		1500	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,6-Dinitrotoluene	38,200.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Chloronaphthalene	36,300.000		970	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Chlorophenol	37,900.000		710	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Methylnaphthalene	37,900.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Methylphenol	38,300.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Nitroaniline	40,000.000		1400	5000	ug/L
SSTDICV040	ICVBP052224	Water	2-Nitrophenol	39,700.000		2000	5000	ug/L
SSTDICV040	ICVBP052224	Water	3+4-Methylphenols	38,200.000		1200	10000	ug/L
SSTDICV040	ICVBP052224	Water	3,3-Dichlorobenzidine	42,200.000		1300	10000	ug/L
SSTDICV040	ICVBP052224	Water	3-Nitroaniline	42,100.000		1400	5000	ug/L
SSTDICV040	ICVBP052224	Water	4,6-Dinitro-2-methylphenol	39,300.000		3100	10000	ug/L
SSTDICV040	ICVBP052224	Water	4-Bromophenyl-phenylether	36,700.000		950	5000	ug/L
SSTDICV040	ICVBP052224	Water	4-Chloro-3-methylphenol	39,400.000		840	5000	ug/L
SSTDICV040	ICVBP052224	Water	4-Chloroaniline	42,700.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	4-Chlorophenyl-phenylether	38,300.000		980	5000	ug/L
SSTDICV040	ICVBP052224	Water	4-Nitroaniline	45,100.000		2000	5000	ug/L
SSTDICV040	ICVBP052224	Water	4-Nitrophenol	46,300.000		2000	10000	ug/L
SSTDICV040	ICVBP052224	Water	Acenaphthene	36,700.000		810	5000	ug/L
SSTDICV040	ICVBP052224	Water	Acenaphthylene	41,000.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	Acetophenone	38,700.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Aniline	43,700.000		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.: BP052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBP052224	Water	Anthracene	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Atrazine	51,400.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	Azobenzene	39,600.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzaldehyde	32,700.000		4000	10000	ug/L
SSTDICV040	ICVBP052224	Water	Benzidine	64,800.000		4100	10000	ug/L
SSTDICV040	ICVBP052224	Water	Benzo(a)anthracene	39,500.000		940	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzo(a)pyrene	39,900.000		1700	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzo(b)fluoranthene	38,100.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzo(g,h,i)perylene	34,800.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzo(k)fluoranthene	39,000.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Benzoic acid	37,300.000		5500	10000	ug/L
SSTDICV040	ICVBP052224	Water	Benzyl Alcohol	37,700.000		1600	10000	ug/L
SSTDICV040	ICVBP052224	Water	bis(2-Chloroethoxy)methane	39,500.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	bis(2-Chloroethyl)ether	38,000.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Bis(2-ethylhexyl)phthalate	43,400.000		1900	5000	ug/L
SSTDICV040	ICVBP052224	Water	Butylbenzylphthalate	41,700.000		2100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Caprolactam	43,900.000		1700	10000	ug/L
SSTDICV040	ICVBP052224	Water	Carbazole	40,200.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Chrysene	38,400.000		860	5000	ug/L
SSTDICV040	ICVBP052224	Water	Di-n-butylphthalate	42,600.000		1500	5000	ug/L
SSTDICV040	ICVBP052224	Water	Di-n-octyl phthalate	44,000.000		2500	10000	ug/L
SSTDICV040	ICVBP052224	Water	Dibenzo(a,h)anthracene	37,500.000		1200	5000	ug/L
SSTDICV040	ICVBP052224	Water	Dibenzofuran	37,900.000		930	5000	ug/L
SSTDICV040	ICVBP052224	Water	Diethylphthalate	39,700.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	Dimethylphthalate	39,100.000		930	5000	ug/L
SSTDICV040	ICVBP052224	Water	Fluoranthene	40,800.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	Fluorene	37,900.000		960	5000	ug/L
SSTDICV040	ICVBP052224	Water	Hexachlorobenzene	35,600.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Hexachlorobutadiene	35,500.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	Hexachlorocyclopentadiene	44,400.000		5000	10000	ug/L
SSTDICV040	ICVBP052224	Water	Hexachloroethane	37,400.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	Indeno(1,2,3-cd)pyrene	38,000.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	Isophorone	39,100.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	n-Nitroso-di-n-propylamine	37,900.000		1500	2500	ug/L
SSTDICV040	ICVBP052224	Water	n-Nitrosodimethylamine	37,400.000		1000	10000	ug/L
SSTDICV040	ICVBP052224	Water	n-Nitrosodiphenylamine	37,000.000		890	5000	ug/L
SSTDICV040	ICVBP052224	Water	Naphthalene	36,900.000		1000	5000	ug/L
SSTDICV040	ICVBP052224	Water	Nitrobenzene	36,700.000		1300	5000	ug/L
SSTDICV040	ICVBP052224	Water	Pentachlorophenol	38,900.000		1900	10000	ug/L
SSTDICV040	ICVBP052224	Water	Phenanthrene	38,400.000		890	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BP052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBP052224	Water	Phenol	37,800.000		930	5000	ug/L
SSTDICV040	ICVBP052224	Water	Pyrene	35,500.000		1100	5000	ug/L
SSTDICV040	ICVBP052224	Water	Pyridine	36,100.000		1600	5000	ug/L
SSTDICV040	ICVBP052224	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	78,200.000		2700	10000	ug/L
SSTDICV040	ICVBP052224	Water	Total PAH	612,500.000		17360	80000	ug/L
			Total Svoc :	**3,848,100.00**				
			Total Concentration:	**3,848,100.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG No.: BP052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 13:59

LAB FILE ID: RRF2.5 = BP020436.D RRF005 = BP020437.D RRF010 = BP020438.D
RRF020 = BP020439.D RRF040 = BP020440.D RRF050 = BP020441.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.571	0.536	0.567	0.558	0.549	0.567	3.9
Pyridine		1.103	1.164	1.191	1.125	1.156	1.175	4.7
2-Fluorophenol		1.001	1.033	1.122	1.094	1.061	1.083	5.0
Benzaldehyde			0.974	0.971	0.821	0.762	0.857	12.7
Aniline		1.370	1.346	1.433	1.433	1.471	1.441	5.3
Phenol-d6		1.452	1.427	1.501	1.513	1.516	1.517	4.7
Phenol		1.454	1.452	1.515	1.523	1.532	1.529	4.5
bis(2-Chloroethyl)ether		1.236	1.151	1.198	1.251	1.236	1.217	3.0
2-Chlorophenol		1.232	1.148	1.204	1.231	1.202	1.216	2.9
1,2-Dichlorobenzene		1.523	1.405	1.427	1.419	1.398	1.434	3.0
1,3-Dichlorobenzene		1.521	1.453	1.489	1.472	1.406	1.461	2.5
1,4-Dichlorobenzene		1.610	1.482	1.518	1.492	1.435	1.498	3.7
Benzyl Alcohol		1.169	1.157	1.204	1.274	1.314	1.253	6.7
2-Methylphenol		0.916	0.973	0.981	1.032	1.059	1.017	6.7
2,2-oxybis(1-Chloropropane)		1.516	1.339	1.374	1.445	1.392	1.394	4.8
Acetophenone		0.485	0.492	0.528	0.512	0.498	0.510	3.7
3+4-Methylphenols		1.277	1.253	1.363	1.431	1.486	1.401	8.0
n-Nitroso-di-n-propylamine	1.028	1.145	0.891	0.975	1.054	1.096	1.037	8.1
Nitrobenzene-d5		0.405	0.398	0.435	0.428	0.409	0.418	3.3
Hexachloroethane		0.589	0.553	0.577	0.589	0.566	0.569	2.8
Nitrobenzene		0.398	0.391	0.432	0.421	0.399	0.412	3.8
Isophorone		0.669	0.624	0.702	0.717	0.710	0.694	5.4
2-Nitrophenol		0.148	0.146	0.169	0.178	0.174	0.170	9.8
2,4-Dimethylphenol		0.184	0.174	0.200	0.202	0.199	0.197	6.8
bis(2-Chloroethoxy)methane		0.386	0.349	0.415	0.426	0.408	0.401	6.5
2,4-Dichlorophenol		0.260	0.261	0.304	0.306	0.303	0.296	8.5
1,2,4-Trichlorobenzene		0.368	0.360	0.383	0.378	0.354	0.369	2.7
Benzoic acid			0.136	0.179	0.209	0.228	0.207	20.7
Naphthalene		1.030	0.975	1.028	1.014	0.977	1.010	2.3
4-Chloroaniline		0.296	0.300	0.333	0.352	0.356	0.342	10.0
Hexachlorobutadiene		0.270	0.243	0.272	0.278	0.251	0.260	5.3
Caprolactam		0.074	0.071	0.085	0.081	0.091	0.084	11.8
4-Chloro-3-methylphenol		0.318	0.304	0.341	0.338	0.351	0.342	7.6
2-Methylnaphthalene		0.703	0.641	0.702	0.703	0.693	0.692	3.5
Hexachlorocyclopentadiene			0.118	0.174	0.233	0.212	0.198	22.8
2,4,6-Trichlorophenol		0.353	0.345	0.398	0.418	0.403	0.395	8.5

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.: BP052224 SAS No.: BP052224 SDG No.: BP052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 13:59

LAB FILE ID: RRF2.5 = BP020436.D RRF005 = BP020437.D RRF010 = BP020438.D
RRF020 = BP020439.D RRF040 = BP020440.D RRF050 = BP020441.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.441	1.390	1.430	1.524	1.411	1.447	3.3
2,4,5-Trichlorophenol		0.391	0.393	0.432	0.458	0.437	0.434	7.1
1,1-Biphenyl		1.405	1.341	1.416	1.480	1.353	1.409	3.7
2-Chloronaphthalene		1.111	1.113	1.165	1.144	1.084	1.132	3.0
2-Nitroaniline		0.276	0.293	0.352	0.342	0.345	0.335	10.8
Dimethylphthalate		1.377	1.302	1.401	1.389	1.368	1.371	2.8
Acenaphthylene		1.537	1.489	1.648	1.639	1.575	1.601	4.2
2,6-Dinitrotoluene		0.275	0.284	0.318	0.314	0.314	0.307	6.7
3-Nitroaniline		0.202	0.242	0.279	0.268	0.280	0.264	12.9
Acenaphthene		1.012	0.981	1.050	1.037	1.000	1.019	2.3
2,4-Dinitrophenol			0.111	0.156	0.168	0.184	0.167	18.6
4-Nitrophenol			0.070	0.178	0.182	0.208	0.179	31.7
Dibenzofuran		1.652	1.593	1.695	1.671	1.605	1.644	2.4
2,4-Dinitrotoluene		0.356	0.357	0.444	0.414	0.429	0.410	9.9
Diethylphthalate		1.303	1.249	1.412	1.386	1.400	1.347	5.8
4-Chlorophenyl-phenylether		0.742	0.701	0.737	0.752	0.735	0.733	2.6
Fluorene		1.361	1.300	1.343	1.317	1.318	1.335	2.2
4-Nitroaniline		0.176	0.220	0.262	0.244	0.256	0.240	14.0
4,6-Dinitro-2-methylphenol			0.081	0.114	0.129	0.127	0.120	16.9
n-Nitrosodiphenylamine		0.540	0.513	0.548	0.573	0.539	0.553	4.8
Azobenzene		1.296	1.237	1.413	1.312	1.313	1.304	4.6
2,4,6-Tribromophenol		0.246	0.234	0.272	0.266	0.270	0.260	6.2
4-Bromophenyl-phenylether		0.224	0.198	0.222	0.244	0.225	0.226	6.4
Hexachlorobenzene		0.282	0.248	0.263	0.275	0.261	0.267	4.2
Atrazine		0.171	0.167	0.188	0.170	0.157	0.161	12.2
Pentachlorophenol		0.121	0.127	0.160	0.164	0.157	0.151	12.4
Phenanthrene		0.977	0.943	0.975	0.974	0.936	0.964	1.8
Anthracene		0.907	0.901	0.981	0.979	0.921	0.946	3.7
Carbazole		0.755	0.840	0.929	0.880	0.802	0.846	6.6
Di-n-butylphthalate		0.868	0.848	1.099	1.180	1.101	1.016	12.4
Fluoranthene		1.026	1.156	1.281	1.196	1.008	1.123	8.7
Benzidine		0.240	0.220	0.275	0.406	0.228	0.280	22.8
Pyrene		1.391	1.111	1.230	1.392	1.538	1.353	12.0
Terphenyl-d14		1.181	0.984	1.099	1.205	1.346	1.169	10.6
Butylbenzylphthalate		0.422	0.369	0.485	0.550	0.551	0.483	13.8
3,3-Dichlorobenzidine		0.354	0.408	0.457	0.465	0.399	0.426	9.9

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG No.: BP052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 13:59

LAB FILE ID: RRF2.5 = BP020436.D RRF005 = BP020437.D RRF010 = BP020438.D
RRF020 = BP020439.D RRF040 = BP020440.D RRF050 = BP020441.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.209	1.187	1.250	1.286	1.250	1.249	3.1
Chrysene		1.265	1.201	1.230	1.232	1.193	1.229	2.1
Bis(2-ethylhexyl)phthalate		0.616	0.542	0.711	0.855	0.778	0.699	14.6
Di-n-octyl phthalate		1.027	0.975	1.183	1.386	1.212	1.164	11.9
Benzo(b)fluoranthene		1.062	1.060	1.169	1.212	1.146	1.143	5.2
Benzo(k)fluoranthene		1.077	1.093	1.167	1.177	1.105	1.129	3.5
Benzo(a)pyrene		0.944	0.931	1.033	1.055	1.014	1.012	5.3
Indeno(1,2,3-cd)pyrene		1.383	1.294	1.362	1.355	1.334	1.364	3.1
Dibenzo(a,h)anthracene		1.121	1.048	1.123	1.134	1.101	1.124	3.8
Benzo(g,h,i)perylene		1.183	1.107	1.130	1.126	1.126	1.153	3.4
1,2,4,5-Tetrachlorobenzene		0.633	0.613	0.663	0.694	0.623	0.650	5.0
1,4-Dioxane		0.524	0.522	0.496	0.451	0.412	0.474	9.0
2,3,4,6-Tetrachlorophenol		0.366	0.370	0.396	0.382	0.378	0.379	3.4
1-Methylnaphthalene		0.718	0.635	0.687	0.697	0.684	0.686	3.8

All other compounds must meet a minimum RRF of 0.010.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BP020440.D Time Analyzed: 20:53

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	145433	7.552	569933	10.33	353232	14.23
	UPPER LIMIT	290866	8.052	1139866	10.828	706464	14.734
	LOWER LIMIT	72716.5	7.052	284966.5	9.828	176616	13.734
	EPA SAMPLE NO.						
01	ICVBP052224	142103	7.55	550869	10.32	366184	14.23
02	PB160983BL	125899	7.56	495487	10.33	325482	14.23

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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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BP020440.D Time Analyzed: 20:53

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	145433	7.552	569933	10.33	353232	14.23
	UPPER LIMIT	290866	8.052	1139866	10.828	706464	14.734
	LOWER LIMIT	72716.5	7.052	284966.5	9.828	176616	13.734
	EPA SAMPLE NO.						
01	ICVBP052224	142103	7.55	550869	10.32	366184	14.23
02	PB160983BL	125899	7.56	495487	10.33	325482	14.23

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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Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BP020440.D Time Analyzed: 20:53

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	667439	17.075	625929	21.551	698803	24.845
	UPPER LIMIT	1334878	17.575	1251858	22.051	1397606	25.345
	LOWER LIMIT	333719.5	16.575	312964.5	21.051	349401.5	24.345
	EPA SAMPLE NO.						
01	ICVBP052224	783710	17.08	778996	21.55	886435	24.85
02	PB160983BL	693213	17.07	538485	21.56	516034	24.86

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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Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BP020440.D Time Analyzed: 20:53

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	667439	17.075	625929	21.551	698803	24.845
	UPPER LIMIT	1334878	17.575	1251858	22.051	1397606	25.345
	LOWER LIMIT	333719.5	16.575	312964.5	21.051	349401.5	24.345
	EPA SAMPLE NO.						
01	ICVBP052224	783710	17.08	778996	21.55	886435	24.85
02	PB160983BL	693213	17.07	538485	21.56	516034	24.86

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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Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBP052224

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

Lab File ID: BP020444.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_P Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 05/22/2024

Level: (low/med) LOW Time Analyzed: 20:53

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBP052224	SSTDICV040	BP020444.D	05/22/2024

COMMENTS:

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Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160983BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP052224 SAS No.: BP052224 SDG NO.: BP052224

Lab File ID: BP020445.D Lab Sample ID: PB160983BL

Instrument ID: BNA_P Date Extracted: 05/17/2024

Matrix: (soil/water) water Date Analyzed: 05/22/2024

Level: (low/med) LOW Time Analyzed: 22:24

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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Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: BP052224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBP052224	BP020444.D	2-Fluorophenol	150	75,364.00	50243	*	10	139
			Phenol-d6	150	70,767.00	47178	*	10	134
			Nitrobenzene-d5	100	75,054.00	75054	*	49	133
			2-Fluorobiphenyl	100	71,969.00	71969	*	52	132
			2,4,6-Tribromophenol	150	79,364.00	52909	*	32	145
			Terphenyl-d14	100	73,467.00	73467	*	36	145

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Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: BP052224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB160983BL	PB160983BL	BP020445.D	2-Fluorophenol	150	148.07	99		10	139
			Phenol-d6	150	137.04	91		10	134
			Nitrobenzene-d5	100	81.28	81		49	133
			2-Fluorobiphenyl	100	80.27	80		52	132
			2,4,6-Tribromophenol	150	138.30	92		32	145
			Terphenyl-d14	100	91.61	92		36	145

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BP052224

Lab Code: CHEM SAS No.: BP052224 SDG NO.: BP052224

Lab File ID: BP020435.D DFTPP Injection Date: 05/22/2024

Instrument ID: BNA_P DFTPP Injection Time: 13:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	42.3
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	11.2
442	Greater than 50% of mass 198	70.7
443	15.0 - 24.0% of mass 442	13.3 (18.9) 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	BP020436.D	05/22/2024	13:59
SSTDICC005	SSTDICC005	BP020437.D	05/22/2024	14:43
SSTDICC010	SSTDICC010	BP020438.D	05/22/2024	15:30
SSTDICC020	SSTDICC020	BP020439.D	05/22/2024	17:04
SSTDICCC040	SSTDICCC040	BP020440.D	05/22/2024	17:49
SSTDICC050	SSTDICC050	BP020441.D	05/22/2024	18:36
SSTDICC060	SSTDICC060	BP020442.D	05/22/2024	19:22
SSTDICC080	SSTDICC080	BP020443.D	05/22/2024	20:08
ICVBP052224	SSTDICV040	BP020444.D	05/22/2024	20:53
PB160983BL	PB160983BL	BP020445.D	05/22/2024	22:24