CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: BNA_M Calibration Date/Time: 3/5/2024 12: 17:40

Lab File ID: BM044506.D Init. Calib. Date(s):

EPA Sample No.: SICV026 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.610	0.533	0.010	-12.6551	40.0
Benzaldehyde	0.896	1.098	0.010	22.5955	40.0
Pyridine	1.800	1.384	0.010	-23.1112	40.0
Phenol	2.099	1.842	0.080	-12.2464	20.0
Bis(2-Chloroethyl)ether	1.723	1.487	0.100	-13.678	20.0
2-Chlorophenol	1.559	1.441	0.200	-7.548	20.0
2-Methylphenol	1.593	1.379	0.010	-13.4105	20.0
2,2-oxybis(1-Chloropropane)	2.276	1.899	0.010	-16.5471	40.0
Acetophenone	2.505	2.386	0.060	-4.7476	20.0
4-Methylphenol	1.734	1.529	0.010	-11.7722	20.0
N-Nitroso-di-n-propylamine	1.294	1.202	0.050	-7.1082	30.0
Hexachloroethane	0.638	0.569	0.100	-10.8194	20.0
Nitrobenzene	0.399	0.350	0.050	-12.2486	25.0
Isophorone	0.815	0.724	0.050	-11.1776	25.0
2-Nitrophenol	0.198	0.185	0.050	-6.6164	25.0
2,4-Dimethylphenol	0.360	0.274	0.050	-23.809	25.0
Bis(2-Chloroethoxy)methane	0.512	0.456	0.050	-10.9786	20.0
2,4-Dichlorophenol	0.308	0.289	0.060	-6.3315	20.0
Naphthalene	1.133	1.026	0.200	-9.4316	20.0
4-Chloroaniline	0.495	0.455	0.010	-8.0355	40.0
Hexachlorobutadiene	0.173	0.156	0.040	-9.7904	30.0
Caprolactam	0.120	0.121	0.010	0.4604	40.0
4-Chloro-3-methylphenol	0.358	0.333	0.040	-6.7746	25.0
1-Methylnaphthalene	0.743	0.677	0.100	-8.836	20.0
2-Methylnaphthalene	0.753	0.695	0.100	-7.6932	20.0
Hexachlorocyclopentadiene	0.378	0.258	0.010	-31.5897	40.0
2,4,6-Trichlorophenol	0.399	0.349	0.090	-12.5754	25.0
2,4,5-Trichlorophenol	0.427	0.393	0.100	-8.1399	25.0
1,1-Biphenyl	1.588	1.457	0.200	-8.2536	20.0
2-Chloronaphthalene	1.246	1.104	0.300	-11.421	20.0
2-Nitroaniline	0.391	0.351	0.050	-10.3193	40.0
Dimethylphthalate	1.596	1.462	0.300	-8.3982	20.0
2,6-Dinitrotoluene	0.319	0.318	0.080	-0.3206	30.0
Acenaphthylene	2.091	1.892	0.400	-9.5188	20.0
3-Nitroaniline	0.344	0.387	0.010	12.2404	40.0
Acenaphthene	1.375	1.185	0.200	-13.8013	20.0
2,4-Dinitrophenol	0.204	0.195	0.010	-4.5411	40.0
4-Nitrophenol	0.228	0.221	0.010	-3.0257	40.0
Dibenzofuran	1.829	1.701	0.300	-7.0038	20.0
2,4-Dinitrotoluene	0.460	0.467	0.070	1.5532	30.0
Diethylphthalate	1.657	1.600	0.300	-3.4125	20.0

CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: BNA_M Calibration Date/Time: 3/5/2024 12: 17:40

Lab File ID: BM044506.D Init. Calib. Date(s):

EPA Sample No.: SICV026 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Fluorene	1.496	1.369	0.200	-8.4925	20.0
4-Chlorophenyl-phenylether	0.694	0.624	0.100	-10.1224	20.0
4-Nitroaniline	0.329	0.422	0.010	28.3236	40.0
4,6-Dinitro-2-methylphenol	0.139	0.125	0.010	-9.7119	40.0
N-Nitrosodiphenylamine	0.602	0.556	0.050	-7.6324	20.0
1,2,4,5-Tetrachlorobenzene	0.569	0.523	0.100	-8.1194	20.0
4-Bromophenyl-phenylether	0.200	0.172	0.070	-13.9343	20.0
Hexachlorobenzene	0.228	0.206	0.050	-9.4661	25.0
Atrazine	0.197	0.191	0.010	-3.0369	25.0
Pentachlorophenol	0.150	0.131	0.010	-12.8298	40.0
Phenanthrene	1.135	1.034	0.200	-8.8525	20.0
Pentachlorobenzene	0.258	0.219	0.050	-15.2056	20.0
Anthracene	1.147	1.062	0.200	-7.4232	20.0
1,2,3,4-Tetrachlorobenzene	0.267	0.224	0.050	-16.2613	20.0
Carbazole	1.078	1.041	0.050	-3.4312	40.0
Di-n-butylphthalate	1.450	1.328	0.500	-8.4009	25.0
Fluoranthene	1.461	1.324	0.400	-9.3334	25.0
Pyrene	1.521	1.382	0.400	-9.1079	25.0
Butylbenzylphthalate	0.748	0.675	0.100	-9.6822	40.0
3,3-Dichlorobenzidine	0.433	0.487	0.010	12.5343	40.0
Benzo(a)anthracene	1.502	1.375	0.300	-8.4634	30.0
Chrysene	1.391	1.268	0.200	-8.8208	30.0
Bis(2-ethylhexyl)phthalate	1.090	0.980	0.200	-10.1014	40.0
Di-n-octyl phthalate	1.790	1.581	0.010	-11.6832	40.0
Benzo(b)fluoranthene	1.338	1.227	0.200	-8.3166	25.0
Benzo(k)fluoranthene	1.311	1.164	0.200	-11.1825	25.0
Benzo(a)pyrene	1.252	1.071	0.200	-14.4092	20.0
Indeno(1,2,3-cd)pyrene	1.404	1.281	0.200	-8.7776	25.0
Dibenzo(a,h)anthracene	1.171	1.081	0.200	-7.7033	30.0
Benzo(g,h,i)perylene	1.121	1.015	0.200	-9.4199	30.0
2,3,4,6-Tetrachlorophenol	0.354	0.357	0.040	0.8839	20.0
1,4-Dioxane-d8	0.590	0.493	0.010	-16.3324	25.0
Pyridine-d5	1.736	1.650	0.010	-4.9223	40.0
Phenol-d5	2.056	1.960	0.010	-4.6573	25.0
Bis-(2-Chloroethyl)ether-d8	1.270	1.325	0.050	4.2974	25.0
2-Chlorophenol-d4	1.511	1.534	0.200	1.4923	20.0
4-Methylphenol-d8	1.615	1.563	0.010	-3.2095	20.0
Nitrobenzene-d5	0.168	0.173	0.050	2.4503	20.0
2-Nitrophenol-d4	0.182	0.187	0.050	2.7919	30.0
2,4-Dichlorophenol-d3	0.309	0.311	0.060	0.7618	20.0
4-Chloroaniline-d4	0.513	0.505	0.010	-1.6873	40.0

CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: BNA_M Calibration Date/Time: 3/5/2024 12: 17:40

Lab File ID: BM044506.D Init. Calib. Date(s):

EPA Sample No.: SICV026 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.569	1.613	0.300	2.7826	20.0
Acenaphthylene-d8	1.794	1.788	0.400	-0.3294	20.0
4-Nitrophenol-d4	0.325	0.351	0.010	8.0319	40.0
Fluorene-d10	1.318	1.331	0.100	0.9415	20.0
4,6-Dinitro-2-methylphenol-d2	0.130	0.132	0.010	1.8943	40.0
Anthracene-d10	0.956	0.983	0.300	2.8499	20.0
Pyrene-d10	1.227	1.241	0.300	1.1953	25.0
Benzo(a)pyrene-d12	1.051	1.054	0.010	0.2345	20.0

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6444			SDG No.:	BM030524
Lab Sample ID:	SP6444			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044507.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	490	U	490	500	2000	ug/L
100-52-7	Benzaldehyde	2500	U	2500	5000	10000	ug/L
110-86-1	Pyridine	1400	U	1400	10000	10000	ug/L
108-95-2	Phenol	1400	U	1400	5000	10000	ug/L
111-44-4	Bis(2-Chloroethyl)ether	1400	U	1400	5000	10000	ug/L
95-57-8	2-Chlorophenol	1300	U	1300	2500	5000	ug/L
95-48-7	2-Methylphenol	1400	U	1400	5000	10000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1400	U	1400	5000	10000	ug/L
98-86-2	Acetophenone	1500	U	1500	5000	10000	ug/L
106-44-5	4-Methylphenol	1400	U	1400	5000	10000	ug/L
621-64-7	N-Nitroso-di-n-propylamine	1600	U	1600	2500	5000	ug/L
67-72-1	Hexachloroethane	1100	U	1100	2500	5000	ug/L
98-95-3	Nitrobenzene	1400	U	1400	2500	5000	ug/L
78-59-1	Isophorone	1400	U	1400	2500	5000	ug/L
88-75-5	2-Nitrophenol	1400	U	1400	2500	5000	ug/L
105-67-9	2,4-Dimethylphenol	980	U	980	2500	5000	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	1500	U	1500	2500	5000	ug/L
120-83-2	2,4-Dichlorophenol	1500	U	1500	2500	5000	ug/L
91-20-3	Naphthalene	1300	U	1300	2500	5000	ug/L
106-47-8	4-Chloroaniline	1400	U	1400	2500	10000	ug/L
87-68-3	Hexachlorobutadiene	1200	U	1200	2500	5000	ug/L
105-60-2	Caprolactam	4500	U	4500	5000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	1400	U	1400	2500	5000	ug/L
90-12-0	1-Methylnaphthalene	1300	U	1300	2500	5000	ug/L
91-57-6	2-Methylnaphthalene	1400	U	1400	2500	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	3300	U	3300	5000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	1500	U	1500	2500	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	1500	U	1500	2500	5000	ug/L
92-52-4	1,1-Biphenyl	1700	U	1700	2500	5000	ug/L
91-58-7	2-Chloronaphthalene	1600	U	1600	2500	5000	ug/L
88-74-4	2-Nitroaniline	1200	U	1200	2500	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6444			SDG No.:	BM030524
Lab Sample ID:	SP6444			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044507.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
131-11-3	Dimethylphthalate	1500	U	1500	2500	5000	ug/L
606-20-2	2,6-Dinitrotoluene	1100	U	1100	2500	5000	ug/L
208-96-8	Acenaphthylene	1500	U	1500	2500	5000	ug/L
99-09-2	3-Nitroaniline	840	U	840	5000	10000	ug/L
83-32-9	Acenaphthene	1500	U	1500	2500	5000	ug/L
51-28-5	2,4-Dinitrophenol	5900	U	5900	5000	10000	ug/L
100-02-7	4-Nitrophenol	1500	U	1500	5000	10000	ug/L
132-64-9	Dibenzofuran	1500	U	1500	2500	5000	ug/L
121-14-2	2,4-Dinitrotoluene	1100	U	1100	2500	5000	ug/L
84-66-2	Diethylphthalate	1500	U	1500	2500	5000	ug/L
86-73-7	Fluorene	1500	U	1500	2500	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1600	U	1600	2500	5000	ug/L
100-01-6	4-Nitroaniline	1300	U	1300	5000	10000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	940	U	940	5000	10000	ug/L
86-30-6	N-Nitrosodiphenylamine	1600	U	1600	2500	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1800	U	1800	2500	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	1500	U	1500	2500	5000	ug/L
118-74-1	Hexachlorobenzene	1600	U	1600	2500	5000	ug/L
1912-24-9	Atrazine	1600	U	1600	5000	10000	ug/L
87-86-5	Pentachlorophenol	3600	U	3600	5000	10000	ug/L
85-01-8	Phenanthrene	1600	U	1600	2500	5000	ug/L
608-93-5	Pentachlorobenzene	1500	U	1500	2500	5000	ug/L
120-12-7	Anthracene	1400	U	1400	2500	5000	ug/L
634-66-2	1,2,3,4-Tetrachlorobenzene	1200	U	1200	2500	5000	ug/L
86-74-8	Carbazole	1600	U	1600	5000	10000	ug/L
84-74-2	Di-n-butylphthalate	1700	U	1700	2500	5000	ug/L
206-44-0	Fluoranthene	1700	U	1700	5000	5000	ug/L
129-00-0	Pyrene	1700	U	1700	2500	5000	ug/L
85-68-7	Butylbenzylphthalate	1500	U	1500	2500	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	1100	U	1100	5000	10000	ug/L
56-55-3	Benzo(a)anthracene	1400	U	1400	2500	5000	ug/L
218-01-9	Chrysene	1500	U	1500	2500	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1800	U	1800	2500	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6444			SDG No.:	BM030524
Lab Sample ID:	SP6444			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044507.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
117-84-0	Di-n-octyl phthalate	1400	U	1400	5000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	1600	U	1600	2500	5000	ug/L
207-08-9	Benzo(k)fluoranthene	1700	U	1700	2500	5000	ug/L
50-32-8	Benzo(a)pyrene	1500	U	1500	2500	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1400	U	1400	2500	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	1400	U	1400	2500	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	1400	U	1400	2500	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1400	U	1400	2500	5000	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	16033	*	15-120		200413	SPK: -8
7291-22-7	Pyridine-d5	80083	*	20-120		200207	SPK: -40
4165-62-2	Phenol-d5	73386	*	10-130		183465	SPK: -40
93952-02-4	Bis-(2-Chloroethyl)ether-d8	75999	*	25-120		189997	SPK: -40
93951-73-6	2-Chlorophenol-d4	79455	*	20-130		198638	SPK: -40
190780-66-6	4-Methylphenol-d8	75056	*	25-125		187640	SPK: -40
4165-60-0	Nitrobenzene-d5	84494	*	20-125		211235	SPK: -40
93951-78-1	2-Nitrophenol-d4	88078	*	20-130		220195	SPK: -40
93951-74-7	2,4-Dichlorophenol-d3	78010	*	20-120		195025	SPK: -40
191656-33-4	4-Chloroaniline-d4	79329	*	1-146		198322	SPK: -40
85448-30-2	Dimethylphthalate-d6	78292	*	25-130		195730	SPK: -40
93951-97-4	Acenaphthylene-d8	80202	*	10-130		200505	SPK: -40
93951-79-2	4-Nitrophenol-d4	78185	*	10-150		195463	SPK: -40
81103-79-9	Fluorene-d10	78180	*	25-125		195450	SPK: -40
93951-76-9	4,6-Dinitro-2-methylphenol-d2	80831	*	10-130		202078	SPK: -40
1719-06-8	Anthracene-d10	79117	*	25-130		197793	SPK: -40
1718-52-1	Pyrene-d10	76041	*	15-130		190103	SPK: -40
63466-71-7	Benzo(a)pyrene-d12	77827	*	20-130		194568	SPK: -40
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	203489	7.733				
1146-65-2	Naphthalene-d8	918739	10.516				
15067-26-2	Acenaphthene-d10	582213	14.368				
1517-22-2	Phenanthrene-d10	1215789	17.121				

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	SP6444		SDG No.:	BM030524	
Lab Sample ID:	SP6444		Matrix:	Water	
Analytical Method:	SFAM_SVOC		% 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
BM044507.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	1101155	21.303				
1520-96-3	Perylene-d12	1272351	23.556				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1700	U			99	ug/L

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6445			SDG No.:	BM030524
Lab Sample ID:	SP6445			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044508.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	35000	E	490	500	2000	ug/L
100-52-7	Benzaldehyde	140000		2500	5000	10000	ug/L
110-86-1	Pyridine	81000		1400	10000	10000	ug/L
108-95-2	Phenol	94000		1400	5000	10000	ug/L
111-44-4	Bis(2-Chloroethyl)ether	88000		1400	5000	10000	ug/L
95-57-8	2-Chlorophenol	96000	E	1300	2500	5000	ug/L
95-48-7	2-Methylphenol	94000		1400	5000	10000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	87000		1400	5000	10000	ug/L
98-86-2	Acetophenone	87000		1500	5000	10000	ug/L
106-44-5	4-Methylphenol	93000		1400	5000	10000	ug/L
621-64-7	N-Nitroso-di-n-propylamine	87000	E	1600	2500	5000	ug/L
67-72-1	Hexachloroethane	89000	E	1100	2500	5000	ug/L
98-95-3	Nitrobenzene	89000	E	1400	2500	5000	ug/L
78-59-1	Isophorone	90000	E	1400	2500	5000	ug/L
88-75-5	2-Nitrophenol	92000	E	1400	2500	5000	ug/L
105-67-9	2,4-Dimethylphenol	97000	E	980	2500	5000	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	89000	E	1500	2500	5000	ug/L
120-83-2	2,4-Dichlorophenol	95000	E	1500	2500	5000	ug/L
91-20-3	Naphthalene	88000	E	1300	2500	5000	ug/L
106-47-8	4-Chloroaniline	72000		1400	2500	10000	ug/L
87-68-3	Hexachlorobutadiene	90000	E	1200	2500	5000	ug/L
105-60-2	Caprolactam	95000		4500	5000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	95000	E	1400	2500	5000	ug/L
90-12-0	1-Methylnaphthalene	89000	E	1300	2500	5000	ug/L
91-57-6	2-Methylnaphthalene	88000	E	1400	2500	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	88000		3300	5000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	93000	E	1500	2500	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	93000	E	1500	2500	5000	ug/L
92-52-4	1,1-Biphenyl	84000	E	1700	2500	5000	ug/L
91-58-7	2-Chloronaphthalene	85000	E	1600	2500	5000	ug/L
88-74-4	2-Nitroaniline	93000	E	1200	2500	5000	ug/L

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6445			SDG No.:	BM030524
Lab Sample ID:	SP6445			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044508.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
131-11-3	Dimethylphthalate	86000	E	1500	2500	5000	ug/L
606-20-2	2,6-Dinitrotoluene	97000	E	1100	2500	5000	ug/L
208-96-8	Acenaphthylene	86000	E	1500	2500	5000	ug/L
99-09-2	3-Nitroaniline	97000		840	5000	10000	ug/L
83-32-9	Acenaphthene	84000	E	1500	2500	5000	ug/L
51-28-5	2,4-Dinitrophenol	99000		5900	5000	10000	ug/L
100-02-7	4-Nitrophenol	90000		1500	5000	10000	ug/L
132-64-9	Dibenzofuran	82000	E	1500	2500	5000	ug/L
121-14-2	2,4-Dinitrotoluene	91000	E	1100	2500	5000	ug/L
84-66-2	Diethylphthalate	85000	E	1500	2500	5000	ug/L
86-73-7	Fluorene	79000		1500	2500	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	79000		1600	2500	5000	ug/L
100-01-6	4-Nitroaniline	110000		1300	5000	10000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	93000		940	5000	10000	ug/L
86-30-6	N-Nitrosodiphenylamine	87000	E	1600	2500	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	88000	E	1800	2500	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	90000	E	1500	2500	5000	ug/L
118-74-1	Hexachlorobenzene	87000	E	1600	2500	5000	ug/L
1912-24-9	Atrazine	98000		1600	5000	10000	ug/L
87-86-5	Pentachlorophenol	94000		3600	5000	10000	ug/L
85-01-8	Phenanthrene	85000	E	1600	2500	5000	ug/L
608-93-5	Pentachlorobenzene	86000	E	1500	2500	5000	ug/L
120-12-7	Anthracene	86000	E	1400	2500	5000	ug/L
634-66-2	1,2,3,4-Tetrachlorobenzene	92000	E	1200	2500	5000	ug/L
86-74-8	Carbazole	88000		1600	5000	10000	ug/L
84-74-2	Di-n-butylphthalate	85000	E	1700	2500	5000	ug/L
206-44-0	Fluoranthene	94000	E	1700	5000	5000	ug/L
129-00-0	Pyrene	93000	E	1700	2500	5000	ug/L
85-68-7	Butylbenzylphthalate	97000	E	1500	2500	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	95000		1100	5000	10000	ug/L
56-55-3	Benzo(a)anthracene	88000	E	1400	2500	5000	ug/L
218-01-9	Chrysene	88000	E	1500	2500	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	82000	E	1800	2500	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6445			SDG No.:	BM030524
Lab Sample ID:	SP6445			Matrix:	Water
Analytical Method:	SFAM_SVOC			% 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
BM044508.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
117-84-0	Di-n-octyl phthalate	93000		1400	5000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	93000	E	1600	2500	5000	ug/L
207-08-9	Benzo(k)fluoranthene	87000	E	1700	2500	5000	ug/L
50-32-8	Benzo(a)pyrene	90000	E	1500	2500	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	84000	E	1400	2500	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	83000	E	1400	2500	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	84000	E	1400	2500	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	91000	E	1400	2500	5000	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0	U	15-120		0	SPK: -8
7291-22-7	Pyridine-d5	0.022	U	20-120		0	SPK: -40
4165-62-2	Phenol-d5	0	U	10-130		0	SPK: -40
93952-02-4	Bis-(2-Chloroethyl)ether-d8	0	U	25-120		0	SPK: -40
93951-73-6	2-Chlorophenol-d4	0	U	20-130		0	SPK: -40
190780-66-6	4-Methylphenol-d8	0	U	25-125		0	SPK: -40
4165-60-0	Nitrobenzene-d5	0	U	20-125		0	SPK: -40
93951-78-1	2-Nitrophenol-d4	0	U	20-130		0	SPK: -40
93951-74-7	2,4-Dichlorophenol-d3	0	U	20-120		0	SPK: -40
191656-33-4	4-Chloroaniline-d4	0	U	1-146		0	SPK: -40
85448-30-2	Dimethylphthalate-d6	0	U	25-130		0	SPK: -40
93951-97-4	Acenaphthylene-d8	0	U	10-130		0	SPK: -40
93951-79-2	4-Nitrophenol-d4	0	U	10-150		0	SPK: -40
81103-79-9	Fluorene-d10	0	U	25-125		0	SPK: -40
93951-76-9	4,6-Dinitro-2-methylphenol-d2	0	U	10-130		0	SPK: -40
1719-06-8	Anthracene-d10	0	U	25-130		0	SPK: -40
1718-52-1	Pyrene-d10	0	U	15-130		0	SPK: -40
63466-71-7	Benzo(a)pyrene-d12	0	U	20-130		0	SPK: -40
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	201144	7.734				
1146-65-2	Naphthalene-d8	933009	10.516				
15067-26-2	Acenaphthene-d10	576873	14.368				
1517-22-2	Phenanthrene-d10	1191772	17.121				

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	SP6445		SDG No.:	BM030524	
Lab Sample ID:	SP6445		Matrix:	Water	
Analytical Method:	SFAM_SVOC		% 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
BM044508.D	1		3/5/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	956404	21.315				
1520-96-3	Perylene-d12	1014296	23.562				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1700	U			99	ug/L

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BM030524

Client:

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID : SP6444									
SP6444	SP6444	Water	Total Alkanes	*	0.000		1700	5000	ug/L
			Total Tics :				**0.00**		
			Total Concentration:				**0.00**		
Client ID : SP6445									
SP6445	SP6445	Water	Total Alkanes	*	0.000		1700	5000	ug/L
			Total Tics :				**0.00**		
SP6445	SP6445	Water	1,1-Biphenyl		84,000.000	E	1700	5000	ug/L
SP6445	SP6445	Water	1,2,3,4-Tetrachlorobenzene		92,000.000	E	1200	5000	ug/L
SP6445	SP6445	Water	1,2,4,5-Tetrachlorobenzene		88,000.000	E	1800	5000	ug/L
SP6445	SP6445	Water	1,4-Dioxane		35,000.000	E	490	2000	ug/L
SP6445	SP6445	Water	1-Methylnaphthalene		89,000.000	E	1300	5000	ug/L
SP6445	SP6445	Water	2,2-oxybis(1-Chloropropane)		87,000.000		1400	10000	ug/L
SP6445	SP6445	Water	2,3,4,6-Tetrachlorophenol		91,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	2,4,5-Trichlorophenol		93,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	2,4,6-Trichlorophenol		93,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	2,4-Dichlorophenol		95,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	2,4-Dimethylphenol		97,000.000	E	980	5000	ug/L
SP6445	SP6445	Water	2,4-Dinitrophenol		99,000.000		5900	10000	ug/L
SP6445	SP6445	Water	2,4-Dinitrotoluene		91,000.000	E	1100	5000	ug/L
SP6445	SP6445	Water	2,6-Dinitrotoluene		97,000.000	E	1100	5000	ug/L
SP6445	SP6445	Water	2-Chloronaphthalene		85,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	2-Chlorophenol		96,000.000	E	1300	5000	ug/L
SP6445	SP6445	Water	2-Methylnaphthalene		88,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	2-Methylphenol		94,000.000		1400	10000	ug/L
SP6445	SP6445	Water	2-Nitroaniline		93,000.000	E	1200	5000	ug/L
SP6445	SP6445	Water	2-Nitrophenol		92,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	3,3-Dichlorobenzidine		95,000.000		1100	10000	ug/L
SP6445	SP6445	Water	3-Nitroaniline		97,000.000		840	10000	ug/L
SP6445	SP6445	Water	4,6-Dinitro-2-methylphenol		93,000.000		940	10000	ug/L
SP6445	SP6445	Water	4-Bromophenyl-phenylether		90,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	4-Chloro-3-methylphenol		95,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	4-Chloroaniline		72,000.000		1400	10000	ug/L
SP6445	SP6445	Water	4-Chlorophenyl-phenylether		79,000.000		1600	5000	ug/L
SP6445	SP6445	Water	4-Methylphenol		93,000.000		1400	10000	ug/L
SP6445	SP6445	Water	4-Nitroaniline		110,000.000		1300	10000	ug/L
SP6445	SP6445	Water	4-Nitrophenol		90,000.000		1500	10000	ug/L
SP6445	SP6445	Water	Acenaphthene		84,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Acenaphthylene		86,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Acetophenone		87,000.000		1500	10000	ug/L

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BM030524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SP6445	SP6445	Water	Anthracene	86,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Atrazine	98,000.000		1600	10000	ug/L
SP6445	SP6445	Water	Benzaldehyde	140,000.000		2500	10000	ug/L
SP6445	SP6445	Water	Benzo(a)anthracene	88,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Benzo(a)pyrene	90,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Benzo(b)fluoranthene	93,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	Benzo(g,h,i)perylene	84,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Benzo(k)fluoranthene	87,000.000	E	1700	5000	ug/L
SP6445	SP6445	Water	Bis(2-Chloroethoxy)methane	89,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Bis(2-Chloroethyl)ether	88,000.000		1400	10000	ug/L
SP6445	SP6445	Water	Bis(2-ethylhexyl)phthalate	82,000.000	E	1800	5000	ug/L
SP6445	SP6445	Water	Butylbenzylphthalate	97,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Caprolactam	95,000.000		4500	10000	ug/L
SP6445	SP6445	Water	Carbazole	88,000.000		1600	10000	ug/L
SP6445	SP6445	Water	Chrysene	88,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Di-n-butylphthalate	85,000.000	E	1700	5000	ug/L
SP6445	SP6445	Water	Di-n-octyl phthalate	93,000.000		1400	10000	ug/L
SP6445	SP6445	Water	Dibenzo(a,h)anthracene	83,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Dibenzofuran	82,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Diethylphthalate	85,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Dimethylphthalate	86,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Fluoranthene	94,000.000	E	1700	5000	ug/L
SP6445	SP6445	Water	Fluorene	79,000.000		1500	5000	ug/L
SP6445	SP6445	Water	Hexachlorobenzene	87,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	Hexachlorobutadiene	90,000.000	E	1200	5000	ug/L
SP6445	SP6445	Water	Hexachlorocyclopentadiene	88,000.000		3300	10000	ug/L
SP6445	SP6445	Water	Hexachloroethane	89,000.000	E	1100	5000	ug/L
SP6445	SP6445	Water	Indeno(1,2,3-cd)pyrene	84,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Isophorone	90,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	N-Nitroso-di-n-propylamine	87,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	N-Nitrosodiphenylamine	87,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	Naphthalene	88,000.000	E	1300	5000	ug/L
SP6445	SP6445	Water	Nitrobenzene	89,000.000	E	1400	5000	ug/L
SP6445	SP6445	Water	Pentachlorobenzene	86,000.000	E	1500	5000	ug/L
SP6445	SP6445	Water	Pentachlorophenol	94,000.000		3600	10000	ug/L
SP6445	SP6445	Water	Phenanthrene	85,000.000	E	1600	5000	ug/L
SP6445	SP6445	Water	Phenol	94,000.000		1400	10000	ug/L
SP6445	SP6445	Water	Pyrene	93,000.000	E	1700	5000	ug/L
SP6445	SP6445	Water	Pyridine	81,000.000		1400	10000	ug/L
			Total Svoc :	**6,442,000.00**				
			Total Concentration:	**6,442,000.00**				

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BM030524

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: Calibration Date(s): 3/5/2024 1:

Calibration Time(s): 14:03

LAB FILE ID: RRFAL1 = BM044500.D RRFAL2 = BM044501.D RRFAL3 = BM044502.D
RRFAL4 = BM044503.D RRFAL5 = BM044504.D RRFAL6 = BM044505.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.590	0.599	0.586	0.645	0.632		0.610	4.3
Benzaldehyde		0.974	1.047	1.029	0.784	0.644	0.896	19.5
Pyridine		1.645	1.680	1.906	1.921	1.849	1.800	7.2
Hexachloroethane	0.591	0.621	0.615	0.686	0.680		0.638	6.6
Nitrobenzene	0.365	0.383	0.382	0.432	0.434		0.399	7.9
Isophorone	0.726	0.777	0.791	0.892	0.889		0.815	9.0
2-Nitrophenol	0.170	0.184	0.192	0.220	0.223		0.198	11.7
2,4-Dimethylphenol	0.316	0.342	0.343	0.402	0.397		0.360	10.5
Bis(2-Chloroethoxy)methane	0.485	0.494	0.493	0.549	0.541		0.512	5.9
2,4-Dichlorophenol	0.274	0.293	0.299	0.339	0.337		0.308	9.3
Naphthalene	1.073	1.096	1.092	1.216	1.186		1.133	5.7
4-Chloroaniline		0.466	0.474	0.539	0.534	0.460	0.495	7.8
Hexachlorobutadiene	0.161	0.170	0.169	0.184	0.181		0.173	5.4
Phenol		1.872	1.919	2.231	2.277	2.194	2.099	9.0
Caprolactam		0.104	0.111	0.127	0.130	0.128	0.120	9.6
4-Chloro-3-methylphenol	0.311	0.335	0.348	0.396	0.399		0.358	10.8
1-Methylnaphthalene	0.691	0.724	0.719	0.799	0.783		0.743	6.1
2-Methylnaphthalene	0.691	0.732	0.731	0.812	0.800		0.753	6.8
Hexachlorocyclopentadiene		0.323	0.383	0.400	0.400	0.383	0.378	8.4
2,4,6-Trichlorophenol	0.352	0.370	0.378	0.449	0.446		0.399	11.3
2,4,5-Trichlorophenol	0.375	0.402	0.401	0.478	0.482		0.427	11.5
1,1-Biphenyl	1.519	1.557	1.500	1.711	1.654		1.588	5.7
2-Chloronaphthalene	1.160	1.217	1.188	1.354	1.313		1.246	6.7
2-Nitroaniline	0.332	0.352	0.366	0.446	0.460		0.391	14.8
Bis(2-Chloroethyl)ether		1.602	1.617	1.839	1.811	1.747	1.723	6.3
Dimethylphthalate	1.497	1.573	1.521	1.727	1.664		1.596	6.1
2,6-Dinitrotoluene	0.272	0.293	0.299	0.361	0.370		0.319	13.7
Acenaphthylene	1.936	2.058	2.003	2.288	2.171		2.091	6.7
3-Nitroaniline		0.289	0.326	0.374	0.373	0.360	0.344	10.7
Acenaphthene	1.305	1.354	1.308	1.479	1.428		1.375	5.6
2,4-Dinitrophenol		0.124	0.180	0.220	0.247	0.250	0.204	25.9
4-Nitrophenol		0.183	0.205	0.249	0.259	0.244	0.228	14.3
Dibenzofuran	1.770	1.836	1.751	1.960	1.827		1.829	4.5
2,4-Dinitrotoluene	0.394	0.428	0.444	0.522	0.514		0.460	12.1
Diethylphthalate	1.560	1.619	1.569	1.801	1.736		1.657	6.4
2-Chlorophenol	1.401	1.455	1.506	1.711	1.719		1.559	9.5

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.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: Calibration Date(s): 3/5/2024 1:

Calibration Time(s): 14:03

LAB FILE ID: RRFAL1 = BM044500.D RRFAL2 = BM044501.D RRFAL3 = BM044502.D
RRFAL4 = BM044503.D RRFAL5 = BM044504.D RRFAL6 = BM044505.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.485	1.528	1.440	1.598	1.427		1.496	4.7
4-Chlorophenyl-phenylether	0.696	0.710	0.675	0.738	0.652		0.694	4.7
4-Nitroaniline		0.303	0.335	0.372	0.339	0.296	0.329	9.2
4,6-Dinitro-2-methylphenol		0.111	0.130	0.155	0.156	0.141	0.139	13.5
N-Nitrosodiphenylamine	0.547	0.589	0.587	0.654	0.635		0.602	7.0
1,2,4,5-Tetrachlorobenzene	0.529	0.552	0.537	0.617	0.611		0.569	7.4
4-Bromophenyl-phenylether	0.187	0.190	0.192	0.216	0.215		0.200	7.0
Hexachlorobenzene	0.215	0.221	0.219	0.246	0.239		0.228	6.0
Atrazine		0.197	0.197	0.216	0.200	0.174	0.197	7.6
Pentachlorophenol		0.127	0.139	0.167	0.168	0.151	0.150	11.8
2-Methylphenol		1.401	1.468	1.710	1.719	1.665	1.593	9.3
Phenanthrene	1.067	1.110	1.101	1.224	1.171		1.135	5.5
Pentachlorobenzene	0.242	0.251	0.250	0.279	0.269		0.258	5.9
Anthracene	1.074	1.131	1.121	1.240	1.171		1.147	5.4
1,2,3,4-Tetrachlorobenzene	0.243	0.255	0.257	0.290	0.291		0.267	8.1
Carbazole		1.064	1.065	1.187	1.129	0.947	1.078	8.3
Di-n-butylphthalate	1.401	1.393	1.399	1.565	1.493		1.450	5.3
Fluoranthene	1.369	1.332	1.379	1.594	1.629		1.461	9.5
Pyrene	1.452	1.436	1.441	1.647	1.628		1.521	7.0
Butylbenzylphthalate	0.691	0.679	0.692	0.829	0.848		0.748	11.1
3,3-Dichlorobenzidine		0.463	0.459	0.501	0.419	0.321	0.433	15.9
2,2-oxybis(1-Chloropropane)		2.115	2.154	2.443	2.368	2.297	2.276	6.1
Benzo(a)anthracene	1.403	1.469	1.467	1.615	1.555		1.502	5.5
Chrysene	1.298	1.376	1.354	1.498	1.427		1.391	5.5
Bis(2-ethylhexyl)phthalate	1.123	1.042	1.063	1.168	1.056		1.090	4.9
Di-n-octyl phthalate		1.523	1.662	1.938	2.017	1.810	1.790	11.2
Benzo(b)fluoranthene	1.240	1.295	1.267	1.439	1.450		1.338	7.4
Benzo(k)fluoranthene	1.211	1.207	1.321	1.430	1.385		1.311	7.7
Benzo(a)pyrene	1.163	1.205	1.213	1.363	1.315		1.252	6.7
Indeno(1,2,3-cd)pyrene	1.313	1.397	1.398	1.531	1.382		1.404	5.6
Dibenzo(a,h)anthracene	1.092	1.160	1.170	1.287	1.145		1.171	6.1
Benzo(g,h,i)perylene	1.054	1.117	1.117	1.209	1.106		1.121	5.0
Acetophenone		2.368	2.457	2.761	2.606	2.330	2.505	7.1
2,3,4,6-Tetrachlorophenol	0.325	0.332	0.332	0.390	0.390		0.354	9.3
1,4-Dioxane-d8	0.576	0.589	0.548	0.625	0.610		0.590	5.0
Pyridine-d5		1.519	1.613	1.859	1.869	1.818	1.736	9.2

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.: BM030524 SAS No.: BM030524 SDG No.: BM030524

Instrument ID: Calibration Date(s): 3/5/2024 1:

Calibration Time(s): 14:03

LAB FILE ID: RRFAL1 = BM044500.D RRFAL2 = BM044501.D RRFAL3 = BM044502.D
RRFAL4 = BM044503.D RRFAL5 = BM044504.D RRFAL6 = BM044505.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Phenol-d5		1.796	1.883	2.176	2.219	2.207	2.056	9.8
Bis-(2-Chloroethyl)ether-d8		1.173	1.208	1.358	1.330	1.281	1.270	6.2
2-Chlorophenol-d4	1.334	1.404	1.447	1.675	1.696		1.511	10.9
4-Methylphenol-d8		1.402	1.474	1.738	1.754	1.707	1.615	10.2
Nitrobenzene-d5	0.145	0.157	0.162	0.188	0.190		0.168	11.8
2-Nitrophenol-d4	0.150	0.166	0.175	0.205	0.212		0.182	14.6
2,4-Dichlorophenol-d3	0.269	0.288	0.302	0.341	0.344		0.309	10.6
4-Chloroaniline-d4		0.485	0.487	0.557	0.550	0.487	0.513	7.2
4-Methylphenol		1.538	1.599	1.868	1.865	1.798	1.734	8.9
Dimethylphthalate-d6	1.473	1.526	1.490	1.703	1.652		1.569	6.5
Acenaphthylene-d8	1.625	1.717	1.722	1.976	1.932		1.794	8.4
4-Nitrophenol-d4		0.259	0.295	0.361	0.370	0.341	0.325	14.4
Fluorene-d10	1.251	1.300	1.249	1.430	1.362		1.318	5.9
4,6-Dinitro-2-methylphenol-		0.102	0.119	0.144	0.148	0.136	0.130	14.8
Anthracene-d10	0.890	0.931	0.929	1.041	0.989		0.956	6.2
Pyrene-d10	1.152	1.136	1.170	1.337	1.338		1.227	8.3
Benzo(a)pyrene-d12	0.966	0.999	1.013	1.140	1.138		1.051	7.8
N-Nitroso-di-n-propylamine	1.152	1.245	1.262	1.448	1.364		1.294	8.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG NO.: BM030524

EPA Sample No.: SSTD020022 Date Analyzed: Mar 5 2024 12:00AM

Lab File ID: BM044502.D Time Analyzed: 17:40

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	270713	7.734	1.24463e+0	10.52	775776	14.37
	UPPER LIMIT	541426	8.234	2489260	11.016	1551552	14.868
	LOWER LIMIT	135356.5	7.234	622315	10.016	387888	13.868
	EPA SAMPLE NO.						
01	SICV026	235083	7.73	1.09813e	10.52	704116	14.37
02	SP6444	203489	7.73	918739	10.52	582213	14.37
03	SP6445	201144	7.73	933009	10.52	576873	14.37

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.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG NO.: BM030524

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG NO.: BM030524

EPA Sample No.: SSTD020022 Date Analyzed: Mar 5 2024 12:00AM

Lab File ID: BM044502.D Time Analyzed: 17:40

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	1.59626e+0(	17.121	1.4675e+0	21.309	1.6044e+00(	23.562
	UPPER LIMIT	3192520	17.621	2935000	21.809	3208800	24.062
	LOWER LIMIT	798130	16.621	733750	20.809	802200	23.062
	EPA SAMPLE NO.						
01	SICV026	1.58458	17.12	1.45967e+	21.31	1.63062e+	23.56
02	SP6444	1.21579	17.12	1.10116e+	21.30	1.27235e+	23.56
03	SP6445	1.19177	17.12	956404	21.32	1.0143e+0	23.56

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG NO.: BM030524

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BM030524

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
SSTDICV020	1,4-Dioxane	8	0	ug/L	0				0	0	
	Benzaldehyde	20	0	ug/L	0				0	0	
	Pyridine	20	0	ug/L	0				0	0	
	Phenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethyl)ether	20	0	ug/L	0				0	0	
	2-Chlorophenol	20	0	ug/L	0				0	0	
	2-Methylphenol	20	0	ug/L	0				0	0	
	2,2-oxybis(1-Chloropropane)	20	0	ug/L	0				0	0	
	Acetophenone	20	0	ug/L	0				0	0	
	4-Methylphenol	20	0	ug/L	0				0	0	
	N-Nitroso-di-n-propylamine	20	0	ug/L	0				0	0	
	Hexachloroethane	20	0	ug/L	0				0	0	
	Nitrobenzene	20	0	ug/L	0				0	0	
	Isophorone	20	0	ug/L	0				0	0	
	2-Nitrophenol	20	0	ug/L	0				0	0	
	2,4-Dimethylphenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethoxy)methane	20	0	ug/L	0				0	0	
	2,4-Dichlorophenol	20	0	ug/L	0				0	0	
	Naphthalene	20	0	ug/L	0				0	0	
	4-Chloroaniline	20	0	ug/L	0				0	0	
	Hexachlorobutadiene	20	0	ug/L	0				0	0	
	Caprolactam	20	0	ug/L	0				0	0	
	4-Chloro-3-methylphenol	20	0	ug/L	0				0	0	
	1-Methylnaphthalene	20	0	ug/L	0				0	0	
	2-Methylnaphthalene	20	0	ug/L	0				0	0	
	Hexachlorocyclopentadiene	20	0	ug/L	0				0	0	
	2,4,6-Trichlorophenol	20	0	ug/L	0				0	0	
	2,4,5-Trichlorophenol	20	0	ug/L	0				0	0	
	1,1'-Biphenyl	20	0	ug/L	0				0	0	
	2-Chloronaphthalene	20	0	ug/L	0				0	0	
	2-Nitroaniline	20	0	ug/L	0				0	0	
	Dimethylphthalate	20	0	ug/L	0				0	0	
	2,6-Dinitrotoluene	20	0	ug/L	0				0	0	
	Acenaphthylene	20	0	ug/L	0				0	0	
	3-Nitroaniline	20	0	ug/L	0				0	0	
	Acenaphthene	20	0	ug/L	0				0	0	
	2,4-Dinitrophenol	20	0	ug/L	0				0	0	
	4-Nitrophenol	20	0	ug/L	0				0	0	
	Dibenzofuran	20	0	ug/L	0				0	0	
	2,4-Dinitrotoluene	20	0	ug/L	0				0	0	
	Diethylphthalate	20	0	ug/L	0				0	0	
	Fluorene	20	0	ug/L	0				0	0	
	4-Chlorophenyl-phenylether	20	0	ug/L	0				0	0	
	4-Nitroaniline	20	0	ug/L	0				0	0	
	4,6-Dinitro-2-methylphenol	20	0	ug/L	0				0	0	
	N-Nitrosodiphenylamine	20	0	ug/L	0				0	0	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BM030524

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
SSTDICV020	1,2,4,5-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	4-Bromophenyl-phenylether	20	0	ug/L	0				0	0	
	Hexachlorobenzene	20	0	ug/L	0				0	0	
	Atrazine	20	0	ug/L	0				0	0	
	Pentachlorophenol	20	0	ug/L	0				0	0	
	Phenanthrene	20	0	ug/L	0				0	0	
	Pentachlorobenzene	20	0	ug/L	0				0	0	
	Anthracene	20	0	ug/L	0				0	0	
	1,2,3,4-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	Carbazole	20	0	ug/L	0				0	0	
	Di-n-butylphthalate	20	0	ug/L	0				0	0	
	Fluoranthene	20	0	ug/L	0				0	0	
	Pyrene	20	0	ug/L	0				0	0	
	Butylbenzylphthalate	20	0	ug/L	0				0	0	
	3,3'-Dichlorobenzidine	20	0	ug/L	0				0	0	
	Benzo(a)anthracene	20	0	ug/L	0				0	0	
	Chrysene	20	0	ug/L	0				0	0	
	Bis(2-ethylhexyl)phthalate	20	0	ug/L	0				0	0	
	Di-n-octylphthalate	20	0	ug/L	0				0	0	
	Benzo(b)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(k)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(a)pyrene	20	0	ug/L	0				0	0	
	Indeno(1,2,3-cd)pyrene	20	0	ug/L	0				0	0	
	Dibenzo(a,h)anthracene	20	0	ug/L	0				0	0	
	Benzo(g,h,i)perylene	20	0	ug/L	0				0	0	
	2,3,4,6-Tetrachlorophenol	20	0	ug/L	0				0	0	

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SP6444

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM030524 SAS No.: BM030524 SDG NO.: BM030524

Lab File ID: BM044507.D Lab Sample ID: SP6444

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 03/05/2024

Level: (low/med) LOW Time Analyzed: 18:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SP6444	SP6444	BM044507.D	03/05/2024
SP6445	SP6445	BM044508.D	03/05/2024

COMMENTS:

CHEMTECH

Surrogate Summary

SW-846

SDG No.: BM030524

Client:

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SP6444	SP6444	BM044507.D	1,4-Dioxane-d8	8	16,033.00	200413	*	15	120
			Pyridine-d5	40	80,083.00	200207	*	20	120
			Phenol-d5	40	73,386.00	183465	*	10	130
			Bis(2-Chloroethyl)ether-d8	40	75,999.00	189997	*	25	120
			2-Chlorophenol-d4	40	79,455.00	198638	*	20	130
			4-Methylphenol-d8	40	75,056.00	187640	*	25	125
			Nitrobenzene-d5	40	84,494.00	211235	*	20	125
			2-Nitrophenol-d4	40	88,078.00	220195	*	20	130
			2,4-Dichlorophenol-d3	40	78,010.00	195025	*	20	120
			4-Chloroaniline-d4	40	79,329.00	198322	*	1	146
			Dimethylphthalate-d6	40	78,292.00	195730	*	25	130
			Acenaphthylene-d8	40	80,202.00	200505	*	10	130
			4-Nitrophenol-d4	40	78,185.00	195463	*	10	150
			Fluorene-d10	40	78,180.00	195450	*	25	125
			4,6-Dinitro-2-methylphenol-d2	40	80,831.00	202078	*	10	130
			Anthracene-d10	40	79,117.00	197793	*	25	130
			Pyrene-d10	40	76,041.00	190103	*	15	130
			Benzo(a)pyrene-d12	40	77,827.00	194568	*	20	130
SP6445	SP6445	BM044508.D	1,4-Dioxane-d8	8	0.00	0	*	15	120
			Pyridine-d5	40	0.00	0	*	20	120
			Phenol-d5	40	0.00	0	*	10	130
			Bis(2-Chloroethyl)ether-d8	40	0.00	0	*	25	120
			2-Chlorophenol-d4	40	0.00	0	*	20	130
			4-Methylphenol-d8	40	0.00	0	*	25	125
			Nitrobenzene-d5	40	0.00	0	*	20	125
			2-Nitrophenol-d4	40	0.00	0	*	20	130
			2,4-Dichlorophenol-d3	40	0.00	0	*	20	120
			4-Chloroaniline-d4	40	0.00	0	*	1	146
			Dimethylphthalate-d6	40	0.00	0	*	25	130
			Acenaphthylene-d8	40	0.00	0	*	10	130
			4-Nitrophenol-d4	40	0.00	0	*	10	150
			Fluorene-d10	40	0.00	0	*	25	125
			4,6-Dinitro-2-methylphenol-d2	40	0.00	0	*	10	130
			Anthracene-d10	40	0.00	0	*	25	130
			Pyrene-d10	40	0.00	0	*	15	130
			Benzo(a)pyrene-d12	40	0.00	0	*	20	130

CHEMTECH

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM030524

Lab Code: CHEM SAS No.: BM030524 SDG NO.: BM030524

Lab File ID: BM044499.D DFTPP Injection Date: 03/05/2024

Instrument ID: BNA_M DFTPP Injection Time: 12:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	39.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.6
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	6.7
275	10.0 - 60.0% of mass 198	21.8
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	66.2
443	15.0 - 24.0% of mass 442	12.9 (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
SSTD005020	SSTD00599	BM044500.D	03/05/2024	14:03
SSTD010021	SSTD01001	BM044501.D	03/05/2024	14:39
SSTD020022	SSTD02002	BM044502.D	03/05/2024	15:16
SSTD040023	SSTD04003	BM044503.D	03/05/2024	15:52
SSTD080024	SSTD08004	BM044504.D	03/05/2024	16:28
SSTD160025	SSTD16005	BM044505.D	03/05/2024	17:04
SICV026	SSTDICV020	BM044506.D	03/05/2024	17:40
SP6444	SP6444	BM044507.D	03/05/2024	18:16
SP6445	SP6445	BM044508.D	03/05/2024	18:53