

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG No.: BM092524
 Instrument ID: BNA_M Calibration Date/Time: 9/25/2024 1:22:34
 Lab File ID: BM047636.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTD0.4053 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.615	0.635	0.010	3.1575	40.0
1,4-Dioxane-d8	0.514	0.541	0.010	5.2042	40.0
Naphthalene	1.090	1.067	0.600	-2.1359	30.0
1-Methylnaphthalene	0.686	0.668	0.300	-2.6148	30.0
2-Methylnaphthalene	0.654	0.634	0.300	-3.0828	30.0
Acenaphthylene	1.944	1.826	0.900	-6.0752	30.0
Acenaphthene	1.335	1.295	0.500	-2.9919	30.0
Fluorene	1.509	1.451	0.700	-3.851	30.0
Pentachlorophenol	0.120	0.111	0.010	-7.5234	50.0
Phenanthrene	1.187	1.148	0.300	-3.3058	30.0
Anthracene	1.057	1.005	0.400	-4.9225	30.0
Fluoranthene	1.683	1.625	0.400	-3.4624	30.0
Pyrene	1.792	1.731	0.500	-3.4096	30.0
Benzo (a) anthracene	1.692	1.551	0.400	-8.3087	30.0
Chrysene	1.759	1.670	0.400	-5.0592	30.0
Benzo (b) fluoranthene	1.741	1.643	0.200	-5.5859	30.0
Benzo (k) fluoranthene	1.751	1.652	0.200	-5.6469	30.0
Benzo (a) pyrene	1.372	1.306	0.200	-4.8052	30.0
Indeno (1,2,3-cd) pyrene	2.185	2.019	0.200	-7.6212	30.0
Dibenzo (a,h) anthracene	1.648	1.545	0.200	-6.2549	30.0
Benzo (g,h,i) perylene	1.754	1.649	0.200	-5.972	30.0
Fluoranthene-d10	1.225	1.191	0.400	-2.7418	30.0
2-Methylnaphthalene-d10	0.534	0.523	0.300	-2.0892	30.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG No.: BM092524

Instrument ID: BNA_M Calibration Date/Time: 9/25/2024 1:16:30

Lab File ID: BM047627.D Init. Calib. Date(s): _____

EPA Sample No.: SICV021 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.615	0.613	0.010	-0.3754	40.0
1,4-Dioxane-d8	0.514	0.542	0.010	5.4443	40.0
Naphthalene	1.090	1.103	0.600	1.1918	30.0
1-Methylnaphthalene	0.686	0.635	0.300	-7.4405	30.0
2-Methylnaphthalene	0.654	0.666	0.300	1.8474	30.0
Acenaphthylene	1.944	1.937	0.900	-0.3523	30.0
Acenaphthene	1.335	1.324	0.500	-0.7617	30.0
Fluorene	1.509	1.491	0.700	-1.2401	30.0
Pentachlorophenol	0.120	0.108	0.010	-10.2441	50.0
Phenanthrene	1.187	1.180	0.300	-0.5931	30.0
Anthracene	1.057	1.068	0.400	1.0659	30.0
Fluoranthene	1.683	1.638	0.400	-2.6427	30.0
Pyrene	1.792	1.773	0.500	-1.0565	30.0
Benzo (a) anthracene	1.692	1.559	0.400	-7.83	30.0
Chrysene	1.759	1.664	0.400	-5.3976	30.0
Benzo (b) fluoranthene	1.741	1.612	0.200	-7.3865	30.0
Benzo (k) fluoranthene	1.751	1.627	0.200	-7.0666	30.0
Benzo (a) pyrene	1.372	1.431	0.200	4.2557	30.0
Indeno (1,2,3-cd) pyrene	2.185	2.017	0.200	-7.6938	30.0
Dibenzo (a,h) anthracene	1.648	1.529	0.200	-7.2716	30.0
Benzo (g,h,i) perylene	1.754	1.645	0.200	-6.2288	30.0
Fluoranthene-d10	1.225	1.167	0.400	-4.7379	30.0
2-Methylnaphthalene-d10	0.534	0.525	0.300	-1.6358	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SBLK587	SDG No.:	BM092524
Lab Sample ID:	PB163587BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047628.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.321		15-120		67	SPK: -8
93951-69-0	Fluoranthene-d10	0.308		30-130		77	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.287		30-130		72	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7872	7.83				
1146-65-2	Naphthalene-d8	23063	10.623				
15067-26-2	Acenaphthene-d10	11574	14.46				

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SBLK587	SDG No.:	BM092524
Lab Sample ID:	PB163587BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047628.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	23331	17.196				
1719-03-5	Chrysene-d12	17938	21.359				
1520-96-3	Perylene-d12	18814	23.636				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SLCS587	SDG No.:	BM092524
Lab Sample ID:	PB163587BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047629.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.7		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.36		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.41		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.36		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.34		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.37		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.35		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.66		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.36		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.35		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.36		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.36		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.34		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.35		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.34		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.35		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.34		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.34		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.34		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.692		15-120		86	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.369		30-130		92	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.364		30-130		91	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6164	7.83				
1146-65-2	Naphthalene-d8	17407	10.622				
15067-26-2	Acenaphthene-d10	8822	14.459				

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SLCS587	SDG No.:	BM092524
Lab Sample ID:	PB163587BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047629.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17822	17.195				
1719-03-5	Chrysene-d12	14982	21.359				
1520-96-3	Perylene-d12	16508	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HH8	SDG No.:	BM092524
Lab Sample ID:	P4130-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047630.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.03	J	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.52		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.683		15-120		59	SPK: -8
93951-69-0	Fluoranthene-d10	0.417		30-130		104	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.299		30-130		75	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6457	7.83				
1146-65-2	Naphthalene-d8	19499	10.623				
15067-26-2	Acenaphthene-d10	11006	14.46				

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HH8	SDG No.:	BM092524
Lab Sample ID:	P4130-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047630.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	22613	17.196				
1719-03-5	Chrysene-d12	16688	21.359				
1520-96-3	Perylene-d12	16192	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0H10	SDG No.:	BM092524
Lab Sample ID:	P4130-06	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047631.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.18	J	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.26		15-120		66	SPK: -8
93951-69-0	Fluoranthene-d10	0.407		30-130		102	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.282		30-130		70	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5452	7.83				
1146-65-2	Naphthalene-d8	16583	10.622				
15067-26-2	Acenaphthene-d10	8769	14.459				

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HI0	SDG No.:	BM092524
Lab Sample ID:	P4130-06	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047631.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17952	17.195				
1719-03-5	Chrysene-d12	13352	21.359				
1520-96-3	Perylene-d12	13045	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HI0MS	SDG No.:	BM092524
Lab Sample ID:	P4130-07MS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047632.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.66		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.31		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.35		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.3		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.27		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.31		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.31		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	1.3		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.35		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.36		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.39		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.46		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.37		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.36		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.36		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.38		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.34		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.35		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.35		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.252		15-120		31	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.37		30-130		93	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.278		30-130		69	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5470	7.83				
1146-65-2	Naphthalene-d8	16467	10.623				
15067-26-2	Acenaphthene-d10	9582	14.461				

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HI0MS	SDG No.:	BM092524
Lab Sample ID:	P4130-07MS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047632.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19258	17.192				
1719-03-5	Chrysene-d12	15780	21.359				
1520-96-3	Perylene-d12	16390	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HI0MSD	SDG No.:	BM092524
Lab Sample ID:	P4130-08MSD	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047633.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.65		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.27		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.33		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.28		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.25		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.29		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.28		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	1.1		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.33		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.33		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.36		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.36		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.33		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.33		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.33		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.32		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.35		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.31		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.32		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.32		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.25		15-120		31	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.37		30-130		93	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.26		30-130		65	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6031	7.83				
1146-65-2	Naphthalene-d8	18026	10.623				
15067-26-2	Acenaphthene-d10	10533	14.46				

Report of Analysis

Client:		Date Collected:	9/19/2024 12:00:00 AM
Project:		Date Received:	9/19/2024 12:00:00 AM
Client Sample ID:	H0HI0MSD	SDG No.:	BM092524
Lab Sample ID:	P4130-08MSD	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047633.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20708	17.196				
1719-03-5	Chrysene-d12	16439	21.359				
1520-96-3	Perylene-d12	17346	23.636				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SLCS589	SDG No.:	BM092524
Lab Sample ID:	PB163589BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047634.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.9		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.38		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.44		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.38		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.36		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.39		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.37		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.74		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.38		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.38		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.38		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.38		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.36		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.37		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.36		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.4		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.36		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.36		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.758		15-120		95	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.389		30-130		97	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.384		30-130		96	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5093	7.83				
1146-65-2	Naphthalene-d8	14578	10.623				
15067-26-2	Acenaphthene-d10	7404	14.456				

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SLCS589	SDG No.:	BM092524
Lab Sample ID:	PB163589BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047634.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	15181	17.196				
1719-03-5	Chrysene-d12	12858	21.359				
1520-96-3	Perylene-d12	13855	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SBLK589	SDG No.:	BM092524
Lab Sample ID:	PB163589BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047635.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.282		15-120		66	SPK: -8
93951-69-0	Fluoranthene-d10	0.293		30-130		73	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.27		30-130		68	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6662	7.83				
1146-65-2	Naphthalene-d8	19756	10.623				
15067-26-2	Acenaphthene-d10	10039	14.46				

Report of Analysis

Client:		Date Collected:	9/20/2024 12:00:00 AM
Project:		Date Received:	9/20/2024 12:00:00 AM
Client Sample ID:	SBLK589	SDG No.:	BM092524
Lab Sample ID:	PB163589BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM047635.D	1	9/20/2024 12:00:00 AM	9/25/2024 12:00:00 AM	PB163589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20654	17.192				
1719-03-5	Chrysene-d12	15815	21.359				
1520-96-3	Perylene-d12	16177	23.639				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L



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

Hit Summary Sheet SW-846

SDG No.: BM092524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : H0HH8								
P4130-02	H0HH8	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P4130-02	H0HH8	Water	Acenaphthene		0.030	J 0.0074	0.1	ug/L
P4130-02	H0HH8	Water	Pentachlorophenol		0.520	0.063	0.2	ug/L
			Total Svoc :			0.55		
			Total Concentration:			0.55		
Client ID : H0HI0								
P4130-06	H0HI0	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P4130-06	H0HI0	Water	Pentachlorophenol		0.180	J 0.063	0.2	ug/L
			Total Svoc :			0.18		
			Total Concentration:			0.18		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG No.: BM092524
Instrument ID: _____ Calibration Date(s): 9/25/2024 : _____
Calibration Time(s): 12:53 : _____

LAB FILE ID:		RRFAL1 = BM047621.D			RRFAL2 = BM047622.D		RRFAL3 = BM047623.D	
		RRFAL4 = BM047624.D			RRFAL5 = BM047625.D		RRFAL6 = BM047626.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.694	0.611	0.624	0.581	0.566	0.615	8.1
1,4-Dioxane-d8		0.524	0.515	0.525	0.507	0.499	0.514	2.1
Naphthalene	1.124	1.079	1.068	1.113	1.067		1.090	2.4
1-Methylnaphthalene	0.699	0.680	0.673	0.704	0.675		0.686	2.1
2-Methylnaphthalene	0.666	0.639	0.640	0.674	0.651		0.654	2.4
Acenaphthylene	1.988	1.922	1.898	1.987	1.925		1.944	2.1
Acenaphthene	1.362	1.326	1.301	1.371	1.314		1.335	2.3
Fluorene	1.506	1.493	1.485	1.554	1.509		1.509	1.8
Pentachlorophenol		0.119	0.110	0.119	0.118	0.134	0.120	7.2
Phenanthrene	1.221	1.169	1.164	1.217	1.165		1.187	2.4
Anthracene	1.058	1.023	1.025	1.104	1.074		1.057	3.3
Fluoranthene	1.682	1.667	1.607	1.762	1.697		1.683	3.3
Pyrene	1.819	1.786	1.711	1.855	1.788		1.792	3.0
Benzo(a)anthracene	1.838	1.700	1.577	1.696	1.648		1.692	5.7
Chrysene	1.978	1.793	1.661	1.732	1.633		1.759	7.8
Benzo(b)fluoranthene	2.009	1.772	1.614	1.689	1.619		1.741	9.4
Benzo(k)fluoranthene	2.050	1.786	1.613	1.713	1.594		1.751	10.5
Benzo(a)pyrene	1.454	1.402	1.270	1.391	1.343		1.372	5.1
Indeno(1,2,3-cd)pyrene	2.513	2.218	1.983	2.143	2.069		2.185	9.3
Dibenzo(a,h)anthracene	1.848	1.663	1.518	1.636	1.577		1.648	7.6
Benzo(g,h,i)perylene	1.977	1.792	1.640	1.713	1.647		1.754	7.9
Fluoranthene-d10	1.234	1.208	1.171	1.278	1.233		1.225	3.2
2-Methylnaphthalene-d10	0.541	0.518	0.526	0.550	0.535		0.534	2.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG NO.: BM092524

EPA Sample No.: SSTD0.4017 Date Analyzed: Sep 25 2024 12:00AM

Lab File ID: BM047623.D Time Analyzed: 16:30

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	5032	7.83	13972	10.62	7168	14.46
UPPER LIMIT	10064	8.33	27944	11.123	14336	14.96
LOWER LIMIT	2516	7.33	6986	10.123	3584	13.96
EPA SAMPLE NO.						
01 SICV021	5418	7.83	15250	10.62	7760	14.46
02 SBLK587	7872	7.83	23063	10.62	11574	14.46
03 SLCS587	6164	7.83	17407	10.62	8822	14.46
04 H0HH8	6457	7.83	19499	10.62	11006	14.46
05 H0HI0	5452	7.83	16583	10.62	8769	14.46
06 H0HI0MS	5470	7.83	16467	10.62	9582	14.46
07 H0HI0MSD	6031	7.83	18026	10.62	10533	14.46
08 SLCS589	5093	7.83	14578	10.62	7404	14.46
09 SBLK589	6662	7.83	19756	10.62	10039	14.46

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG NO.: BM092524

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG NO.: BM092524

EPA Sample No.: SSTD0.4017 Date Analyzed: Sep 25 2024 12:00AM

Lab File ID: BM047623.D Time Analyzed: 16:30

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	14810	17.196	12763	21.359	14088	23.636
UPPER LIMIT	29620	17.696	25526	21.859	28176	24.136
LOWER LIMIT	7405	16.696	6381.5	20.859	7044	23.136
EPA SAMPLE NO.						
01 SICV021	15626	17.20	13266	21.36	14690	23.64
02 SBLK587	23331	17.20	17938	21.36	18814	23.64
03 SLCS587	17822	17.20	14982	21.36	16508	23.64
04 H0HH8	22613	17.20	16688	21.36	16192	23.64
05 H0HI0	17952	17.20	13352	21.36	13045	23.64
06 H0HI0MS	19258	17.19	15780	21.36	16390	23.64
07 H0HI0MSD	20708	17.20	16439	21.36	17346	23.64
08 SLCS589	15181	17.20	12858	21.36	13855	23.64
09 SBLK589	20654	17.19	15815	21.36	16177	23.64

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM092524 SAS No.: BM092524 SDG NO.: BM092524

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BM092524**

Client: _____

Analytical Method: **SFAM_SVOASIM**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
SSTDICV0.4	1,4-Dioxane	0.4	0	ug/L	0				0	0		
	Naphthalene	0.4	0	ug/L	0				0	0		
	1-Methylnaphthalene	0.4	0	ug/L	0				0	0		
	2-Methylnaphthalene	0.4	0	ug/L	0				0	0		
	Acenaphthylene	0.4	0	ug/L	0				0	0		
	Acenaphthene	0.4	0	ug/L	0				0	0		
	Fluorene	0.4	0	ug/L	0				0	0		
	Pentachlorophenol	0.4	0	ug/L	0				0	0		
	Phenanthrene	0.4	0	ug/L	0				0	0		
	Anthracene	0.4	0	ug/L	0				0	0		
	Fluoranthene	0.4	0	ug/L	0				0	0		
	Pyrene	0.4	0	ug/L	0				0	0		
	Benzo(a)anthracene	0.4	0	ug/L	0				0	0		
	Chrysene	0.4	0	ug/L	0				0	0		
	Benzo(b)fluoranthene	0.4	0	ug/L	0				0	0		
	Benzo(k)fluoranthene	0.4	0	ug/L	0				0	0		
	Benzo(a)pyrene	0.4	0	ug/L	0				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0	ug/L	0				0	0		
	Dibenzo(a,h)anthracene	0.4	0	ug/L	0				0	0		
	Benzo(g,h,i)perylene	0.4	0	ug/L	0				0	0		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM092524

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB163587BS	1,4-Dioxane	2	1.7	ug/L	85				0	0		
	Naphthalene	0.4	0.36	ug/L	90				0	0		
	1-Methylnaphthalene	0.4	0.41	ug/L	103				0	0		
	2-Methylnaphthalene	0.4	0.36	ug/L	90				0	0		
	Acenaphthylene	0.4	0.34	ug/L	85				0	0		
	Acenaphthene	0.4	0.37	ug/L	93				0	0		
	Fluorene	0.4	0.35	ug/L	88				0	0		
	Pentachlorophenol	0.8	0.66	ug/L	83				0	0		
	Phenanthrene	0.4	0.36	ug/L	90				0	0		
	Anthracene	0.4	0.35	ug/L	88				0	0		
	Fluoranthene	0.4	0.36	ug/L	90				0	0		
	Pyrene	0.4	0.36	ug/L	90				0	0		
	Benzo(a)anthracene	0.4	0.34	ug/L	85				0	0		
	Chrysene	0.4	0.35	ug/L	88				0	0		
	Benzo(b)fluoranthene	0.4	0.34	ug/L	85				0	0		
	Benzo(k)fluoranthene	0.4	0.35	ug/L	88				0	0		
	Benzo(a)pyrene	0.4	0.39	ug/L	98				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0.34	ug/L	85				0	0		
	Dibenzo(a,h)anthracene	0.4	0.34	ug/L	85				0	0		
	Benzo(g,h,i)perylene	0.4	0.34	ug/L	85				0	0		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM092524

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB163589BS	1,4-Dioxane	2	1.9	ug/L	95				0	0	
	Naphthalene	0.4	0.38	ug/L	95				0	0	
	1-Methylnaphthalene	0.4	0.44	ug/L	110				0	0	
	2-Methylnaphthalene	0.4	0.38	ug/L	95				0	0	
	Acenaphthylene	0.4	0.36	ug/L	90				0	0	
	Acenaphthene	0.4	0.39	ug/L	98				0	0	
	Fluorene	0.4	0.37	ug/L	93				0	0	
	Pentachlorophenol	0.8	0.74	ug/L	93				0	0	
	Phenanthrene	0.4	0.38	ug/L	95				0	0	
	Anthracene	0.4	0.38	ug/L	95				0	0	
	Fluoranthene	0.4	0.38	ug/L	95				0	0	
	Pyrene	0.4	0.38	ug/L	95				0	0	
	Benzo(a)anthracene	0.4	0.36	ug/L	90				0	0	
	Chrysene	0.4	0.37	ug/L	93				0	0	
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90				0	0	
	Benzo(k)fluoranthene	0.4	0.36	ug/L	90				0	0	
	Benzo(a)pyrene	0.4	0.4	ug/L	100				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.36	ug/L	90				0	0	
	Dibenzo(a,h)anthracene	0.4	0.36	ug/L	90				0	0	
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93				0	0	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK587

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM092524

SAS No.: BM092524 SDG NO.: BM092524

Lab File ID: BM047628.D

Lab Sample ID: PB163587BL

Instrument ID: BNA_M

Date Extracted: 09/20/2024

Matrix: (soil/water) Water

Date Analyzed: 09/25/2024

Level: (low/med) LOW

Time Analyzed: 17:06

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB163587BS	PB163587BS	BM047629.D	09/25/2024
H0HH8	P4130-02	BM047630.D	09/25/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK589

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM092524

SAS No.: BM092524 SDG NO.: BM092524

Lab File ID: BM047635.D

Lab Sample ID: PB163589BL

Instrument ID: BNA_M

Date Extracted: 09/20/2024

Matrix: (soil/water) Water

Date Analyzed: 09/25/2024

Level: (low/med) LOW

Time Analyzed: 21:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
H0HI0	P4130-06	BM047631.D	09/25/2024
H0HI0MS	P4130-07MS	BM047632.D	09/25/2024
H0HI0MSD	P4130-08MSD	BM047633.D	09/25/2024
PB163589BS	PB163589BS	BM047634.D	09/25/2024

COMMENTS: _____

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BM092524

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4130-07MS	Client Sample ID:	H0H10MS					DataFile:	BM047632.D		
1,4-Dioxane	2		0.66	ug/L	33				15	120	
Naphthalene	0.4		0.31	ug/L	78				0	0	
1-Methylnaphthalene	0.4		0.35	ug/L	88				0	0	
2-Methylnaphthalene	0.4		0.3	ug/L	75				0	0	
Acenaphthylene	0.4		0.27	ug/L	68				0	0	
Acenaphthene	0.4		0.31	ug/L	78				46	118	
Fluorene	0.4		0.31	ug/L	78				0	0	
Pentachlorophenol	0.8	0.18	1.3	ug/L	140	*			9	103	
Phenanthrene	0.4		0.35	ug/L	88				0	0	
Anthracene	0.4		0.36	ug/L	90				0	0	
Fluoranthene	0.4		0.39	ug/L	98				0	0	
Pyrene	0.4		0.46	ug/L	115				26	127	
Benzo(a)anthracene	0.4		0.37	ug/L	93				0	0	
Chrysene	0.4		0.36	ug/L	90				0	0	
Benzo(b)fluoranthene	0.4		0.36	ug/L	90				0	0	
Benzo(k)fluoranthene	0.4		0.36	ug/L	90				0	0	
Benzo(a)pyrene	0.4		0.38	ug/L	95				0	0	
Indeno(1,2,3-cd)pyrene	0.4		0.34	ug/L	85				0	0	
Dibenzo(a,h)anthracene	0.4		0.35	ug/L	88				0	0	
Benzo(g,h,i)perylene	0.4		0.35	ug/L	88				0	0	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BM092524

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4130-08MSD	Client Sample ID:	H0H10MSD					DataFile:	BM047633.D		
1,4-Dioxane	2		0.65	ug/L	33		0		15	120	50
Naphthalene	0.4		0.27	ug/L	68		14	*	0	0	0
1-Methylnaphthalene	0.4		0.33	ug/L	83		6	*	0	0	0
2-Methylnaphthalene	0.4		0.28	ug/L	70		7	*	0	0	0
Acenaphthylene	0.4		0.25	ug/L	63		8	*	0	0	0
Acenaphthene	0.4		0.29	ug/L	73		7		46	118	31
Fluorene	0.4		0.28	ug/L	70		11	*	0	0	0
Pentachlorophenol	0.8	0.18	1.1	ug/L	115	*	20		9	103	50
Phenanthrene	0.4		0.33	ug/L	83		6	*	0	0	0
Anthracene	0.4		0.33	ug/L	83		8	*	0	0	0
Fluoranthene	0.4		0.36	ug/L	90		9	*	0	0	0
Pyrene	0.4		0.36	ug/L	90		24		26	127	31
Benzo(a)anthracene	0.4		0.33	ug/L	83		11	*	0	0	0
Chrysene	0.4		0.33	ug/L	83		8	*	0	0	0
Benzo(b)fluoranthene	0.4		0.33	ug/L	83		8	*	0	0	0
Benzo(k)fluoranthene	0.4		0.32	ug/L	80		12	*	0	0	0
Benzo(a)pyrene	0.4		0.35	ug/L	88		8	*	0	0	0
Indeno(1,2,3-cd)pyrene	0.4		0.31	ug/L	78		9	*	0	0	0
Dibenzo(a,h)anthracene	0.4		0.32	ug/L	80		10	*	0	0	0
Benzo(g,h,i)perylene	0.4		0.32	ug/L	80		10	*	0	0	0

Surrogate Summary

SW-846

SDG No.: **BM092524**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4130-02	H0HH8	BM047630.D	1,4-Dioxane-d8	8	4.68	59		15	120
			Fluoranthene-d10	0.4	0.42	104		30	130
			2-Methylnaphthalene-d10	0.4	0.30	75		30	130
PB163587BL	PB163587BL	BM047628.D	1,4-Dioxane-d8	8	5.32	67		15	120
			Fluoranthene-d10	0.4	0.31	77		30	130
			2-Methylnaphthalene-d10	0.4	0.29	72		30	130
PB163587BS	PB163587BS	BM047629.D	1,4-Dioxane-d8	0.8	0.69	86		15	120
			Fluoranthene-d10	0.4	0.37	92		30	130
			2-Methylnaphthalene-d10	0.4	0.36	91		30	130

Surrogate Summary

SW-846

SDG No.: **BM092524**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4130-06	H0HI0	BM047631.D	1,4-Dioxane-d8	8	5.26	66		15	120
			Fluoranthene-d10	0.4	0.41	102		30	130
			2-Methylnaphthalene-d10	0.4	0.28	70		30	130
P4130-07MS	H0HI0MS	BM047632.D	1,4-Dioxane-d8	0.8	0.25	31		15	120
			Fluoranthene-d10	0.4	0.37	93		30	130
			2-Methylnaphthalene-d10	0.4	0.28	69		30	130
P4130-08MSD	H0HI0MSD	BM047633.D	1,4-Dioxane-d8	0.8	0.25	31		15	120
			Fluoranthene-d10	0.4	0.37	93		30	130
			2-Methylnaphthalene-d10	0.4	0.26	65		30	130
PB163589BL	PB163589BL	BM047635.D	1,4-Dioxane-d8	8	5.28	66		15	120
			Fluoranthene-d10	0.4	0.29	73		30	130
			2-Methylnaphthalene-d10	0.4	0.27	68		30	130
PB163589BS	PB163589BS	BM047634.D	1,4-Dioxane-d8	0.8	0.76	95		15	120
			Fluoranthene-d10	0.4	0.39	97		30	130
			2-Methylnaphthalene-d10	0.4	0.38	96		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM092524

Lab Code: CHEM

SAS No.: BM092524 SDG NO.: BM092524

Lab File ID: BM047620.D

DFTPP Injection Date: 09/25/2024

Instrument ID: BNA_M

DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	45.3
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	43.4
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48
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	24
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	72
443	15.0 - 24.0% of mass 442	13.7 (19) 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
SSTD0.1015	SSTD0.187	BM047621.D	09/25/2024	12:53
SSTD0.2016	SSTD0.288	BM047622.D	09/25/2024	13:29
SSTD0.4017	SSTD0.489	BM047623.D	09/25/2024	14:05
SSTD0.8018	SSTD0.890	BM047624.D	09/25/2024	14:41
SSTD1.6019	SSTD1.691	BM047625.D	09/25/2024	15:18
SSTD3.2020	SSTD3.292	BM047626.D	09/25/2024	15:54
SICV021	SSTDICV0.4	BM047627.D	09/25/2024	16:30
SBLK587	PB163587BL	BM047628.D	09/25/2024	17:06
SLCS587	PB163587BS	BM047629.D	09/25/2024	17:43
H0HH8	P4130-02	BM047630.D	09/25/2024	18:19
H0HI0	P4130-06	BM047631.D	09/25/2024	18:56
H0HI0MS	P4130-07MS	BM047632.D	09/25/2024	19:32
H0HI0MSD	P4130-08MSD	BM047633.D	09/25/2024	20:09
SLCS589	PB163589BS	BM047634.D	09/25/2024	20:45
SBLK589	PB163589BL	BM047635.D	09/25/2024	21:22
SSTD0.4053	SSTDCCC0.4	BM047636.D	09/25/2024	22:34