

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM072324 SAS No.: BM072324 SDG No.: BM072324

Instrument ID: BNA_M Calibration Date/Time: 7/23/2024 1:10:15

Lab File ID: BM046770.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4180 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane-d8	0.329	0.323	0.010	-1.6584	40.0
1,4-Dioxane	0.351	0.334	0.010	-4.82	40.0
Naphthalene	1.018	1.009	0.600	-0.8755	30.0
1-Methylnaphthalene	0.730	0.754	0.300	3.4078	30.0
2-Methylnaphthalene	0.715	0.733	0.300	2.5886	30.0
Acenaphthylene	1.821	1.806	0.900	-0.8366	30.0
Acenaphthene	1.220	1.206	0.500	-1.1636	30.0
Fluorene	1.509	1.537	0.700	1.8177	30.0
Pentachlorophenol	0.203	0.166	0.010	-18.1384	50.0
Phenanthrene	1.141	1.129	0.300	-1.1197	30.0
Anthracene	1.114	1.264	0.400	13.4743	30.0
Fluoranthene	1.643	1.676	0.400	2.0113	30.0
Pyrene	1.779	1.735	0.500	-2.4657	30.0
Benzo (a) anthracene	1.770	1.615	0.400	-8.7389	30.0
Chrysene	1.712	1.563	0.400	-8.6943	30.0
Benzo (b) fluoranthene	1.598	1.519	0.200	-4.9326	30.0
Benzo (k) fluoranthene	1.569	1.545	0.200	-1.5242	30.0
Benzo (a) pyrene	1.315	1.213	0.200	-7.7859	30.0
Indeno (1,2,3-cd) pyrene	2.001	1.927	0.200	-3.7072	30.0
Dibenzo (a,h) anthracene	1.584	1.510	0.200	-4.6605	30.0
Benzo (g,h,i) perylene	1.597	1.551	0.200	-2.8661	30.0
Fluoranthene-d10	1.217	1.254	0.400	3.0729	30.0
2-Methylnaphthalene-d10	0.645	0.663	0.300	2.7609	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.: BM072324 SAS No.: BM072324 SDG No.: BM072324

Instrument ID: BNA_M Calibration Date/Time: 7/23/2024 1:16:22

Lab File ID: BM046780.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4181 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.351	0.301	0.010	-14.0531	50.0
1,4-Dioxane-d8	0.329	0.265	0.010	-19.3455	50.0
Naphthalene	1.018	1.025	0.600	0.7559	50.0
1-Methylnaphthalene	0.730	0.759	0.300	4.0734	50.0
2-Methylnaphthalene	0.715	0.734	0.300	2.6851	50.0
Acenaphthylene	1.821	1.796	0.900	-1.3427	50.0
Acenaphthene	1.220	1.228	0.500	0.68	50.0
Fluorene	1.509	1.507	0.700	-0.1481	50.0
Pentachlorophenol	0.203	0.162	0.010	-19.9588	50.0
Phenanthrene	1.141	1.109	0.300	-2.8502	50.0
Anthracene	1.114	1.058	0.400	-5.0108	50.0
Fluoranthene	1.643	1.833	0.400	11.563	50.0
Pyrene	1.779	1.881	0.500	5.7176	50.0
Benzo (a) anthracene	1.770	1.628	0.400	-8.0213	50.0
Chrysene	1.712	1.559	0.400	-8.9205	50.0
Benzo (b) fluoranthene	1.598	1.593	0.200	-0.2698	50.0
Benzo (k) fluoranthene	1.569	1.556	0.200	-0.7976	50.0
Benzo (a) pyrene	1.315	1.232	0.200	-6.2751	50.0
Indeno (1,2,3-cd) pyrene	2.001	1.767	0.200	-11.6913	50.0
Dibenzo (a,h) anthracene	1.584	1.410	0.200	-10.985	50.0
Benzo (g,h,i) perylene	1.597	1.389	0.200	-13.0175	50.0
Fluoranthene-d10	1.217	1.413	0.400	16.0671	50.0
2-Methylnaphthalene-d10	0.645	0.671	0.300	3.994	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	7/16/2024 12:00:00 AM
Project:		Date Received:	7/16/2024 12:00:00 AM
Client Sample ID:	SBLK090	SDG No.:	BM072324
Lab Sample ID:	PB162090BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046771.D	1	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89	U	0.89	0	6.7	ug/Kg
91-20-3	Naphthalene	0.2	U	0.2	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.52	U	0.52	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.33	U	0.33	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.18	U	0.18	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.22	U	0.22	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	2	U	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.18	U	0.18	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.17	U	0.17	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.18	U	0.18	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.24	U	0.24	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.09	U	0.09	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.25	U	0.25	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.47	U	0.47	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.32	U	0.32	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.32	U	0.32	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.47	U	0.47	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.75	U	0.75	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.983		15-120		62	SPK: -8
93951-69-0	Fluoranthene-d10	0.452		30-130		113	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.494		20-140		123	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2943	7.477				
1146-65-2	Naphthalene-d8	8436	10.238				
15067-26-2	Acenaphthene-d10	9977	14.123				



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Report of Analysis

Client:		Date Collected:	7/16/2024 12:00:00 AM
Project:		Date Received:	7/16/2024 12:00:00 AM
Client Sample ID:	SBLK090	SDG No.:	BM072324
Lab Sample ID:	PB162090BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046771.D	1	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	22519	16.88				
1719-03-5	Chrysene-d12	11725	21.091				
1520-96-3	Perylene-d12	10500	23.224				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CH8DL	SDG No.:	BM072324
Lab Sample ID:	P3201-14DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	9.4
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM046772.D	5	7/15/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162067

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.9	U	4.9	0	37	ug/Kg
91-20-3	Naphthalene	5	JD	1.1	4.5	18	ug/Kg
90-12-0	1-Methylnaphthalene	2.9	U	2.9	4.5	18	ug/Kg
91-57-6	2-Methylnaphthalene	1	U	1	4.5	18	ug/Kg
208-96-8	Acenaphthylene	12	JD	1.8	4.5	18	ug/Kg
83-32-9	Acenaphthene	7.3	JD	0.99	4.5	18	ug/Kg
86-73-7	Fluorene	8.4	JD	1.2	4.5	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9.2	37	ug/Kg
85-01-8	Phenanthrene	110	D	0.99	4.5	18	ug/Kg
120-12-7	Anthracene	32	D	0.94	4.5	18	ug/Kg
206-44-0	Fluoranthene	330	ED	0.99	4.5	18	ug/Kg
129-00-0	Pyrene	220	D	1.3	4.5	18	ug/Kg
56-55-3	Benzo(a)anthracene	150	D	0.51	4.5	18	ug/Kg
218-01-9	Chrysene	150	D	1.4	4.5	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	D	2.6	4.5	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	78	D	1.8	4.5	18	ug/Kg
50-32-8	Benzo(a)pyrene	97	D	1.8	4.5	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	58	D	2.9	4.5	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	24	D	2.6	4.5	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	11	JD	4.1	4.5	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.595		15-120		32	SPK: -8
93951-69-0	Fluoranthene-d10	0.21		30-130		52	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.19		20-140		47	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3710	7.48				
1146-65-2	Naphthalene-d8	10143	10.237				
15067-26-2	Acenaphthene-d10	7189	14.126				



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Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CH8DL	SDG No.:	BM072324
Lab Sample ID:	P3201-14DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	9.4
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
Extraction Type :		Test:	
Decanted :		Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046772.D	5	7/15/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162067

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	15688	16.878				
1719-03-5	Chrysene-d12	12056	21.088				
1520-96-3	Perylene-d12	12035	23.221				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BE7DL	SDG No.:	BM072324
Lab Sample ID:	P3238-04DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	24.5
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046773.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.9	U	5.9	0	44	ug/Kg
91-20-3	Naphthalene	28	D	1.3	5.5	22	ug/Kg
90-12-0	1-Methylnaphthalene	8.8	JD	3.4	5.5	22	ug/Kg
91-57-6	2-Methylnaphthalene	12	JD	1.3	5.5	22	ug/Kg
208-96-8	Acenaphthylene	16	JD	2.2	5.5	22	ug/Kg
83-32-9	Acenaphthene	47	D	1.2	5.5	22	ug/Kg
86-73-7	Fluorene	55	D	1.5	5.5	22	ug/Kg
87-86-5	Pentachlorophenol	13	U	13	11.1	44	ug/Kg
85-01-8	Phenanthrene	640	ED	1.2	5.5	22	ug/Kg
120-12-7	Anthracene	100	D	1.1	5.5	22	ug/Kg
206-44-0	Fluoranthene	920	ED	1.2	5.5	22	ug/Kg
129-00-0	Pyrene	570	ED	1.6	5.5	22	ug/Kg
56-55-3	Benzo(a)anthracene	330	D	0.62	5.5	22	ug/Kg
218-01-9	Chrysene	340	D	1.7	5.5	22	ug/Kg
205-99-2	Benzo(b)fluoranthene	460	ED	3.1	5.5	22	ug/Kg
207-08-9	Benzo(k)fluoranthene	180	D	2.1	5.5	22	ug/Kg
50-32-8	Benzo(a)pyrene	210	D	2.1	5.5	22	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	D	3.4	5.5	22	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	49	D	3.1	5.5	22	ug/Kg
191-24-2	Benzo(g,h,i)perylene	23	D	5	5.5	22	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.87		15-120		36	SPK: -8
93951-69-0	Fluoranthene-d10	0.23		30-130		57	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.21		20-140		52	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3698	7.48				
1146-65-2	Naphthalene-d8	10204	10.238				
15067-26-2	Acenaphthene-d10	7122	14.123				



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BE7DL	SDG No.:	BM072324
Lab Sample ID:	P3238-04DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	24.5
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046773.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	15794	16.88				
1719-03-5	Chrysene-d12	13483	21.09				
1520-96-3	Perylene-d12	12975	23.224				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	5.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF4DL	SDG No.:	BM072324
Lab Sample ID:	P3238-09DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	26.4
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046774.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6	U	6	0	46	ug/Kg
91-20-3	Naphthalene	5.7	JD	1.4	5.6	22	ug/Kg
90-12-0	1-Methylnaphthalene	3.5	U	3.5	5.6	22	ug/Kg
91-57-6	2-Methylnaphthalene	1.3	U	1.3	5.6	22	ug/Kg
208-96-8	Acenaphthylene	10	JD	2.2	5.6	22	ug/Kg
83-32-9	Acenaphthene	9.5	JD	1.2	5.6	22	ug/Kg
86-73-7	Fluorene	10	JD	1.5	5.6	22	ug/Kg
87-86-5	Pentachlorophenol	14	U	14	11.4	46	ug/Kg
85-01-8	Phenanthrene	210	D	1.2	5.6	22	ug/Kg
120-12-7	Anthracene	31	D	1.2	5.6	22	ug/Kg
206-44-0	Fluoranthene	610	ED	1.2	5.6	22	ug/Kg
129-00-0	Pyrene	370	ED	1.6	5.6	22	ug/Kg
56-55-3	Benzo(a)anthracene	210	D	0.63	5.6	22	ug/Kg
218-01-9	Chrysene	270	D	1.7	5.6	22	ug/Kg
205-99-2	Benzo(b)fluoranthene	400	ED	3.2	5.6	22	ug/Kg
207-08-9	Benzo(k)fluoranthene	150	D	2.2	5.6	22	ug/Kg
50-32-8	Benzo(a)pyrene	150	D	2.2	5.6	22	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	D	3.5	5.6	22	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	44	D	3.2	5.6	22	ug/Kg
191-24-2	Benzo(g,h,i)perylene	21	JD	5.1	5.6	22	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	1.695		15-120		21	SPK: -8
93951-69-0	Fluoranthene-d10	0.215		30-130		54	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.185		20-140		46	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4863	7.48				
1146-65-2	Naphthalene-d8	8710	10.238				
15067-26-2	Acenaphthene-d10	5881	14.123				



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF4DL	SDG No.:	BM072324
Lab Sample ID:	P3238-09DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	26.4
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046774.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12637	16.88				
1719-03-5	Chrysene-d12	9691	21.087				
1520-96-3	Perylene-d12	9455	23.221				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	6	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF8DL	SDG No.:	BM072324
Lab Sample ID:	P3238-12DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	26.2
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		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
BM046775.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6	U	6	0	45	ug/Kg
91-20-3	Naphthalene	1.4	U	1.4	5.6	22	ug/Kg
90-12-0	1-Methylnaphthalene	3.5	U	3.5	5.6	22	ug/Kg
91-57-6	2-Methylnaphthalene	1.3	U	1.3	5.6	22	ug/Kg
208-96-8	Acenaphthylene	2.2	U	2.2	5.6	22	ug/Kg
83-32-9	Acenaphthene	1.2	U	1.2	5.6	22	ug/Kg
86-73-7	Fluorene	1.5	U	1.5	5.6	22	ug/Kg
87-86-5	Pentachlorophenol	14	U	14	11.3	45	ug/Kg
85-01-8	Phenanthrene	73	D	1.2	5.6	22	ug/Kg
120-12-7	Anthracene	12	JD	1.1	5.6	22	ug/Kg
206-44-0	Fluoranthene	320	D	1.2	5.6	22	ug/Kg
129-00-0	Pyrene	200	D	1.6	5.6	22	ug/Kg
56-55-3	Benzo(a)anthracene	75	D	0.63	5.6	22	ug/Kg
218-01-9	Chrysene	100	D	1.7	5.6	22	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	D	3.2	5.6	22	ug/Kg
207-08-9	Benzo(k)fluoranthene	53	D	2.2	5.6	22	ug/Kg
50-32-8	Benzo(a)pyrene	61	D	2.2	5.6	22	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	D	3.5	5.6	22	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	17	JD	3.2	5.6	22	ug/Kg
191-24-2	Benzo(g,h,i)perylene	9.9	JD	5.1	5.6	22	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.13		15-120		27	SPK: -8
93951-69-0	Fluoranthene-d10	0.285		30-130		71	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.15		20-140		38	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3216		7.48			
1146-65-2	Naphthalene-d8	15626		10.237			
15067-26-2	Acenaphthene-d10	9812		14.126			



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF8DL	SDG No.:	BM072324
Lab Sample ID:	P3238-12DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	26.2
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
Extraction Type :		Test:	
Decanted :		Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046775.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19956	16.878				
1719-03-5	Chrysene-d12	9364	21.088				
1520-96-3	Perylene-d12	8914	23.218				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	6	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4CG8DL	SDG No.:	BM072324
Lab Sample ID:	P3238-18DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	29.4
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046776.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.3	U	6.3	0	47	ug/Kg
91-20-3	Naphthalene	11	JD	1.4	5.8	23	ug/Kg
90-12-0	1-Methylnaphthalene	5.2	JD	3.7	5.8	23	ug/Kg
91-57-6	2-Methylnaphthalene	5.9	JD	1.3	5.8	23	ug/Kg
208-96-8	Acenaphthylene	17	JD	2.3	5.8	23	ug/Kg
83-32-9	Acenaphthene	20	JD	1.3	5.8	23	ug/Kg
86-73-7	Fluorene	21	JD	1.6	5.8	23	ug/Kg
87-86-5	Pentachlorophenol	14	U	14	11.9	47	ug/Kg
85-01-8	Phenanthrene	290	D	1.3	5.8	23	ug/Kg
120-12-7	Anthracene	53	D	1.2	5.8	23	ug/Kg
206-44-0	Fluoranthene	570	ED	1.3	5.8	23	ug/Kg
129-00-0	Pyrene	390	ED	1.7	5.8	23	ug/Kg
56-55-3	Benzo(a)anthracene	230	D	0.66	5.8	23	ug/Kg
218-01-9	Chrysene	240	D	1.8	5.8	23	ug/Kg
205-99-2	Benzo(b)fluoranthene	330	D	3.3	5.8	23	ug/Kg
207-08-9	Benzo(k)fluoranthene	130	D	2.3	5.8	23	ug/Kg
50-32-8	Benzo(a)pyrene	160	D	2.3	5.8	23	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	93	D	3.7	5.8	23	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	37	D	3.3	5.8	23	ug/Kg
191-24-2	Benzo(g,h,i)perylene	20	JD	5.3	5.8	23	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.68		15-120		34	SPK: -8
93951-69-0	Fluoranthene-d10	0.225		30-130		56	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.2		20-140		50	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2831		7.481			
1146-65-2	Naphthalene-d8	7680		10.237			
15067-26-2	Acenaphthene-d10	5209		14.122			



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4CG8DL	SDG No.:	BM072324
Lab Sample ID:	P3238-18DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	29.4
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM046776.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11394	16.878				
1719-03-5	Chrysene-d12	8844	21.088				
1520-96-3	Perylene-d12	8633	23.218				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	6.3	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF3DL	SDG No.:	BM072324
Lab Sample ID:	P3238-08DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	53.8
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		Test:	
Extraction Type :		Decanted :	Level :
Injection Volume :		GPC Factor :	Level :
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046777.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.6	U	9.6	0	72	ug/Kg
91-20-3	Naphthalene	19	JD	2.2	8.9	36	ug/Kg
90-12-0	1-Methylnaphthalene	13	JD	5.6	8.9	36	ug/Kg
91-57-6	2-Methylnaphthalene	13	JD	2	8.9	36	ug/Kg
208-96-8	Acenaphthylene	24	JD	3.6	8.9	36	ug/Kg
83-32-9	Acenaphthene	84	D	1.9	8.9	36	ug/Kg
86-73-7	Fluorene	81	D	2.4	8.9	36	ug/Kg
87-86-5	Pentachlorophenol	22	U	22	18.1	72	ug/Kg
85-01-8	Phenanthrene	1200	ED	1.9	8.9	36	ug/Kg
120-12-7	Anthracene	160	D	1.8	8.9	36	ug/Kg
206-44-0	Fluoranthene	2000	ED	1.9	8.9	36	ug/Kg
129-00-0	Pyrene	1300	ED	2.6	8.9	36	ug/Kg
56-55-3	Benzo(a)anthracene	660	ED	1	8.9	36	ug/Kg
218-01-9	Chrysene	760	ED	2.7	8.9	36	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000	ED	5.1	8.9	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	340	D	3.5	8.9	36	ug/Kg
50-32-8	Benzo(a)pyrene	420	D	3.5	8.9	36	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	260	D	5.6	8.9	36	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	D	5.1	8.9	36	ug/Kg
191-24-2	Benzo(g,h,i)perylene	50	D	8.1	8.9	36	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.49		15-120		31	SPK: -8
93951-69-0	Fluoranthene-d10	0.235		30-130		59	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.2		20-140		50	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3072		7.476			
1146-65-2	Naphthalene-d8	14765		10.238			
15067-26-2	Acenaphthene-d10	9553		14.123			



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4BF3DL	SDG No.:	BM072324
Lab Sample ID:	P3238-08DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	53.8
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500 uL
Extraction Type :		Test:	
Injection Volume :		Level :	LOW
		Decanted :	
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046777.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19733	16.88				
1719-03-5	Chrysene-d12	9581	21.087				
1520-96-3	Perylene-d12	9375	23.221				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	9.6	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4CH4DL	SDG No.:	BM072324
Lab Sample ID:	P3238-19DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.8
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM046778.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.9	U	4.9	0	37	ug/Kg
91-20-3	Naphthalene	14	JD	1.1	4.5	18	ug/Kg
90-12-0	1-Methylnaphthalene	4.6	JD	2.8	4.5	18	ug/Kg
91-57-6	2-Methylnaphthalene	7.1	JD	1	4.5	18	ug/Kg
208-96-8	Acenaphthylene	16	JD	1.8	4.5	18	ug/Kg
83-32-9	Acenaphthene	8.2	JD	0.98	4.5	18	ug/Kg
86-73-7	Fluorene	9.7	JD	1.2	4.5	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9.2	37	ug/Kg
85-01-8	Phenanthrene	150	D	0.98	4.5	18	ug/Kg
120-12-7	Anthracene	30	D	0.93	4.5	18	ug/Kg
206-44-0	Fluoranthene	290	ED	0.98	4.5	18	ug/Kg
129-00-0	Pyrene	200	D	1.3	4.5	18	ug/Kg
56-55-3	Benzo(a)anthracene	110	D	0.51	4.5	18	ug/Kg
218-01-9	Chrysene	130	D	1.4	4.5	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	180	D	2.6	4.5	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	D	1.7	4.5	18	ug/Kg
50-32-8	Benzo(a)pyrene	85	D	1.7	4.5	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	61	D	2.8	4.5	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	24	D	2.6	4.5	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	12	JD	4.1	4.5	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.485		15-120		31	SPK: -8
93951-69-0	Fluoranthene-d10	0.235		30-130		59	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.195		20-140		49	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3759	7.48				
1146-65-2	Naphthalene-d8	10286	10.238				
15067-26-2	Acenaphthene-d10	6897	14.123				



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Report of Analysis

Client:		Date Collected:	7/11/2024 12:00:00 AM
Project:		Date Received:	7/11/2024 12:00:00 AM
Client Sample ID:	A4CH4DL	SDG No.:	BM072324
Lab Sample ID:	P3238-19DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.8
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046778.D	5	7/16/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162090

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14338	16.88				
1719-03-5	Chrysene-d12	9744	21.087				
1520-96-3	Perylene-d12	10029	23.221				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/9/2024 12:00:00 AM
Project:		Date Received:	7/9/2024 12:00:00 AM
Client Sample ID:	A4BY8DL	SDG No.:	BM072324
Lab Sample ID:	P3201-02DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.4
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM046779.D	5	7/15/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162067

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.8	U	4.8	0	36	ug/Kg
91-20-3	Naphthalene	1.1	U	1.1	4.5	18	ug/Kg
90-12-0	1-Methylnaphthalene	2.8	U	2.8	4.5	18	ug/Kg
91-57-6	2-Methylnaphthalene	1	U	1	4.5	18	ug/Kg
208-96-8	Acenaphthylene	6	JD	1.8	4.5	18	ug/Kg
83-32-9	Acenaphthene	5.3	JD	0.98	4.5	18	ug/Kg
86-73-7	Fluorene	5.1	JD	1.2	4.5	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9.1	36	ug/Kg
85-01-8	Phenanthrene	78	D	0.98	4.5	18	ug/Kg
120-12-7	Anthracene	13	JD	0.92	4.5	18	ug/Kg
206-44-0	Fluoranthene	200	D	0.98	4.5	18	ug/Kg
129-00-0	Pyrene	97	D	1.3	4.5	18	ug/Kg
56-55-3	Benzo(a)anthracene	71	D	0.51	4.5	18	ug/Kg
218-01-9	Chrysene	85	D	1.4	4.5	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	120	D	2.6	4.5	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	47	D	1.7	4.5	18	ug/Kg
50-32-8	Benzo(a)pyrene	32	D	1.7	4.5	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	24	D	2.8	4.5	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	14	JD	2.6	4.5	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	4.7	JD	4.1	4.5	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.955		15-120		37	SPK: -8
93951-69-0	Fluoranthene-d10	0.27		30-130		68	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.23		20-140		57	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3287	7.476				
1146-65-2	Naphthalene-d8	9070	10.237				
15067-26-2	Acenaphthene-d10	9877	14.121				



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Report of Analysis

Client:		Date Collected:	7/9/2024 12:00:00 AM
Project:		Date Received:	7/9/2024 12:00:00 AM
Client Sample ID:	A4BY8DL	SDG No.:	BM072324
Lab Sample ID:	P3201-02DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.4
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM046779.D	5	7/15/2024 12:00:00 AM	7/23/2024 12:00:00 AM	PB162067

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13475	16.878				
1719-03-5	Chrysene-d12	9911	21.088				
1520-96-3	Perylene-d12	9317	23.218				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.8	U			99	ug/Kg



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Hit Summary Sheet SW-846

SDG No.: BM072324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : A4BY8DL								
P3201-02DL	A4BY8DL	Solid	Total Alkanes	*	0.000	D 4.8	36	ug/Kg
			Total Tics :			0.00		
P3201-02DL	A4BY8DL	Solid	Acenaphthene		5.300	JD 0.98	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Acenaphthylene		6.000	JD 1.8	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Anthracene		13.000	JD 0.92	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Benzo(a)anthracene		71.000	D 0.51	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Benzo(a)pyrene		32.000	D 1.7	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Benzo(b)fluoranthene		120.000	D 2.6	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Benzo(g,h,i)perylene		4.700	JD 4.1	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Benzo(k)fluoranthene		47.000	D 1.7	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Chrysene		85.000	D 1.4	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Dibenzo(a,h)anthracene		14.000	JD 2.6	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Fluoranthene		200.000	D 0.98	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Fluorene		5.100	JD 1.2	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Indeno(1,2,3-cd)pyrene		24.000	D 2.8	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Phenanthrene		78.000	D 0.98	18	ug/Kg
P3201-02DL	A4BY8DL	Solid	Pyrene		97.000	D 1.3	18	ug/Kg
			Total Svoc :			802.10		
			Total Concentration:			802.10		
Client ID : A4CH8DL								
P3201-14DL	A4CH8DL	Solid	Total Alkanes	*	0.000	D 4.9	37	ug/Kg
			Total Tics :			0.00		
P3201-14DL	A4CH8DL	Solid	Acenaphthene		7.300	JD 0.99	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Acenaphthylene		12.000	JD 1.8	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Anthracene		32.000	D 0.94	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Benzo(a)anthracene		150.000	D 0.51	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Benzo(a)pyrene		97.000	D 1.8	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Benzo(b)fluoranthene		210.000	D 2.6	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Benzo(g,h,i)perylene		11.000	JD 4.1	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Benzo(k)fluoranthene		78.000	D 1.8	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Chrysene		150.000	D 1.4	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Dibenzo(a,h)anthracene		24.000	D 2.6	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Fluoranthene		330.000	ED 0.99	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Fluorene		8.400	JD 1.2	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Indeno(1,2,3-cd)pyrene		58.000	D 2.9	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Naphthalene		5.000	JD 1.1	18	ug/Kg
P3201-14DL	A4CH8DL	Solid	Phenanthrene		110.000	D 0.99	18	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM072324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3201-14DL	A4CH8DL	Solid	Pyrene	220.000	D	1.3	18	ug/Kg
Total Svoc :				1,502.70				
Total Concentration:				1,502.70				
Client ID : A4BE7DL								
P3238-04DL	A4BE7DL	Solid	Total Alkanes	*	0.000	D 5.9	44	ug/Kg
Total Tics :				0.00				
P3238-04DL	A4BE7DL	Solid	1-Methylnaphthalene	8.800	JD	3.4	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	2-Methylnaphthalene	12.000	JD	1.3	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Acenaphthene	47.000	D	1.2	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Acenaphthylene	16.000	JD	2.2	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Anthracene	100.000	D	1.1	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Benzo(a)anthracene	330.000	D	0.62	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Benzo(a)pyrene	210.000	D	2.1	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Benzo(b)fluoranthene	460.000	ED	3.1	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Benzo(g,h,i)perylene	23.000	D	5	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Benzo(k)fluoranthene	180.000	D	2.1	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Chrysene	340.000	D	1.7	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Dibenzo(a,h)anthracene	49.000	D	3.1	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Fluoranthene	920.000	ED	1.2	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Fluorene	55.000	D	1.5	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Indeno(1,2,3-cd)pyrene	120.000	D	3.4	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Naphthalene	28.000	D	1.3	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Phenanthrene	640.000	ED	1.2	22	ug/Kg
P3238-04DL	A4BE7DL	Solid	Pyrene	570.000	ED	1.6	22	ug/Kg
Total Svoc :				4,108.80				
Total Concentration:				4,108.80				
Client ID : A4BF3DL								
P3238-08DL	A4BF3DL	Solid	Total Alkanes	*	0.000	D 9.6	72	ug/Kg
Total Tics :				0.00				
P3238-08DL	A4BF3DL	Solid	1-Methylnaphthalene	13.000	JD	5.6	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	2-Methylnaphthalene	13.000	JD	2	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Acenaphthene	84.000	D	1.9	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Acenaphthylene	24.000	JD	3.6	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Anthracene	160.000	D	1.8	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Benzo(a)anthracene	660.000	ED	1	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Benzo(a)pyrene	420.000	D	3.5	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Benzo(b)fluoranthene	1,000.000	ED	5.1	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Benzo(g,h,i)perylene	50.000	D	8.1	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Benzo(k)fluoranthene	340.000	D	3.5	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Chrysene	760.000	ED	2.7	36	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM072324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3238-08DL	A4BF3DL	Solid	Dibenzo(a,h)anthracene	110.000	D	5.1	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Fluoranthene	2,000.000	ED	1.9	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Fluorene	81.000	D	2.4	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Indeno(1,2,3-cd)pyrene	260.000	D	5.6	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Naphthalene	19.000	JD	2.2	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Phenanthrene	1,200.000	ED	1.9	36	ug/Kg
P3238-08DL	A4BF3DL	Solid	Pyrene	1,300.000	ED	2.6	36	ug/Kg
Total Svoc :				8,494.00				
Total Concentration:				8,494.00				
Client ID :	A4BF4DL							
P3238-09DL	A4BF4DL	Solid	Total Alkanes	*	0.000	D 6	46	ug/Kg
Total Tics :				0.00				
P3238-09DL	A4BF4DL	Solid	Acenaphthene	9.500	JD	1.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Acenaphthylene	10.000	JD	2.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Anthracene	31.000	D	1.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Benzo(a)anthracene	210.000	D	0.63	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Benzo(a)pyrene	150.000	D	2.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Benzo(b)fluoranthene	400.000	ED	3.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Benzo(g,h,i)perylene	21.000	JD	5.1	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Benzo(k)fluoranthene	150.000	D	2.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Chrysene	270.000	D	1.7	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Dibenzo(a,h)anthracene	44.000	D	3.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Fluoranthene	610.000	ED	1.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Fluorene	10.000	JD	1.5	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Indeno(1,2,3-cd)pyrene	110.000	D	3.5	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Naphthalene	5.700	JD	1.4	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Phenanthrene	210.000	D	1.2	22	ug/Kg
P3238-09DL	A4BF4DL	Solid	Pyrene	370.000	ED	1.6	22	ug/Kg
Total Svoc :				2,611.20				
Total Concentration:				2,611.20				
Client ID :	A4BF8DL							
P3238-12DL	A4BF8DL	Solid	Total Alkanes	*	0.000	D 6	45	ug/Kg
Total Tics :				0.00				
P3238-12DL	A4BF8DL	Solid	Anthracene	12.000	JD	1.1	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Benzo(a)anthracene	75.000	D	0.63	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Benzo(a)pyrene	61.000	D	2.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Benzo(b)fluoranthene	150.000	D	3.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Benzo(g,h,i)perylene	9.900	JD	5.1	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Benzo(k)fluoranthene	53.000	D	2.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Chrysene	100.000	D	1.7	22	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM072324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3238-12DL	A4BF8DL	Solid	Dibenzo(a,h)anthracene	17.000	JD	3.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Fluoranthene	320.000	D	1.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Indeno(1,2,3-cd)pyrene	44.000	D	3.5	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Phenanthrene	73.000	D	1.2	22	ug/Kg
P3238-12DL	A4BF8DL	Solid	Pyrene	200.000	D	1.6	22	ug/Kg
Total Svoc :				1,114.90				
Total Concentration:				1,114.90				
Client ID : A4CG8DL								
P3238-18DL	A4CG8DL	Solid	Total Alkanes	*	0.000	D 6.3	47	ug/Kg
Total Tics :				0.00				
P3238-18DL	A4CG8DL	Solid	1-Methylnaphthalene	5.200	JD	3.7	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	2-Methylnaphthalene	5.900	JD	1.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Acenaphthene	20.000	JD	1.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Acenaphthylene	17.000	JD	2.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Anthracene	53.000	D	1.2	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Benzo(a)anthracene	230.000	D	0.66	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Benzo(a)pyrene	160.000	D	2.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Benzo(b)fluoranthene	330.000	D	3.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Benzo(g,h,i)perylene	20.000	JD	5.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Benzo(k)fluoranthene	130.000	D	2.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Chrysene	240.000	D	1.8	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Dibenzo(a,h)anthracene	37.000	D	3.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Fluoranthene	570.000	ED	1.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Fluorene	21.000	JD	1.6	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Indeno(1,2,3-cd)pyrene	93.000	D	3.7	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Naphthalene	11.000	JD	1.4	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Phenanthrene	290.000	D	1.3	23	ug/Kg
P3238-18DL	A4CG8DL	Solid	Pyrene	390.000	ED	1.7	23	ug/Kg
Total Svoc :				2,623.10				
Total Concentration:				2,623.10				
Client ID : A4CH4DL								
P3238-19DL	A4CH4DL	Solid	Total Alkanes	*	0.000	D 4.9	37	ug/Kg
Total Tics :				0.00				
P3238-19DL	A4CH4DL	Solid	1-Methylnaphthalene	4.600	JD	2.8	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	2-Methylnaphthalene	7.100	JD	1	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Acenaphthene	8.200	JD	0.98	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Acenaphthylene	16.000	JD	1.8	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Anthracene	30.000	D	0.93	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Benzo(a)anthracene	110.000	D	0.51	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Benzo(a)pyrene	85.000	D	1.7	18	ug/Kg



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

SDG No.: BM072324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3238-19DL	A4CH4DL	Solid	Benzo(b)fluoranthene	180.000	D	2.6	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Benzo(g,h,i)perylene	12.000	JD	4.1	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Benzo(k)fluoranthene	73.000	D	1.7	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Chrysene	130.000	D	1.4	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Dibenzo(a,h)anthracene	24.000	D	2.6	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Fluoranthene	290.000	ED	0.98	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Fluorene	9.700	JD	1.2	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Indeno(1,2,3-cd)pyrene	61.000	D	2.8	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Naphthalene	14.000	JD	1.1	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Phenanthrene	150.000	D	0.98	18	ug/Kg
P3238-19DL	A4CH4DL	Solid	Pyrene	200.000	D	1.3	18	ug/Kg
Total Svoc :				1,404.60				
Total Concentration:				1,404.60				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM071024 SAS No.: BM071024 SDG No.: BM071024
Instrument ID: _____ Calibration Date(s): 7/10/2024 : _____
Calibration Time(s): 13:37 _____

LAB FILE ID:		RRFAL1 = BM046499.D			RRFAL2 = BM046500.D		RRFAL3 = BM046501.D	
		RRFAL4 = BM046502.D			RRFAL5 = BM046503.D		RRFAL6 = BM046504.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.327	0.341	0.365	0.359	0.362	0.351	4.7
1,4-Dioxane-d8		0.340	0.330	0.325	0.321	0.327	0.329	2.2
Naphthalene	1.059	0.999	1.012	1.027	0.992		1.018	2.6
1-Methylnaphthalene	0.748	0.725	0.723	0.741	0.712		0.730	2.0
2-Methylnaphthalene	0.742	0.703	0.713	0.718	0.699		0.715	2.4
Acenaphthylene	1.875	1.804	1.790	1.853	1.783		1.821	2.2
Acenaphthene	1.234	1.224	1.183	1.257	1.202		1.220	2.4
Fluorene	1.543	1.487	1.483	1.543	1.491		1.509	2.0
Pentachlorophenol		0.214	0.203	0.200	0.199	0.198	0.203	3.3
Phenanthrene	1.183	1.127	1.123	1.163	1.111		1.141	2.6
Anthracene	1.158	1.100	1.094	1.130	1.088		1.114	2.6
Fluoranthene	1.828	1.624	1.572	1.663	1.528		1.643	7.0
Pyrene	2.072	1.774	1.682	1.759	1.608		1.779	9.9
Benzo (a) anthracene	1.991	1.777	1.682	1.749	1.649		1.770	7.6
Chrysene	1.925	1.738	1.627	1.687	1.584		1.712	7.7
Benzo (b) fluoranthene	1.817	1.603	1.512	1.550	1.506		1.598	8.1
Benzo (k) fluoranthene	1.739	1.555	1.525	1.555	1.469		1.569	6.5
Benzo (a) pyrene	1.399	1.314	1.274	1.325	1.263		1.315	4.1
Indeno (1,2,3-cd) pyrene	2.040	2.006	1.957	2.039	1.964		2.001	2.0
Dibenzo (a,h) anthracene	1.629	1.606	1.532	1.614	1.539		1.584	2.8
Benzo (g,h,i) perylene	1.607	1.613	1.560	1.638	1.565		1.597	2.1
Fluoranthene-d10	1.281	1.226	1.187	1.243	1.148		1.217	4.2
2-Methylnaphthalene-d10	0.657	0.628	0.643	0.659	0.638		0.645	2.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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.: BM072324 SAS No.: BM072324 SDG NO.: BM072324

EPA Sample No.: SSTD0.4038 Date Analyzed: Jul 23 2024 12:00AM

Lab File ID: BM046501.D Time Analyzed: 10:52

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	1921	7.518	4571	10.28	2922	14.16
UPPER LIMIT	3842	8.018	9142	10.782	5844	14.664
LOWER LIMIT	960.5	7.018	2285.5	9.782	1461	13.664
EPA SAMPLE NO.						
01 SBLK090	2943	7.48	8436	10.24	9977 *	14.12
02 A4CH8DL	3710	7.48	10143 *	10.24	7189 *	14.13
03 A4BE7DL	3698	7.48	10204 *	10.24	7122 *	14.12
04 A4BF4DL	4863 *	7.48	8710	10.24	5881 *	14.12
05 A4BF8DL	3216	7.48	15626 *	10.24	9812 *	14.13
06 A4CG8DL	2831	7.48	7680	10.24	5209	14.12
07 A4BF3DL	3072	7.48	14765 *	10.24	9553 *	14.12
08 A4CH4DL	3759	7.48	10286 *	10.24	6897 *	14.12
09 A4BY8DL	3287	7.48	9070	10.24	9877 *	14.12

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM072324 SAS No.: BM072324 SDG NO.: BM072324

EPA Sample No.: SSTD0.4180 Date Analyzed: Jul 23 2024 12:00AM

Lab File ID: BM046770.D Time Analyzed: 10:52

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	1974	7.48	4959	10.24	3412	14.12
UPPER LIMIT	3948	7.98	9918	10.738	6824	14.623
LOWER LIMIT	987	6.98	2479.5	9.738	1706	13.623
EPA SAMPLE NO.						
01 SBLK090	2943	7.48	8436	10.24	9977 *	14.12
02 A4CH8DL	3710	7.48	10143 *	10.24	7189 *	14.13
03 A4BE7DL	3698	7.48	10204 *	10.24	7122 *	14.12
04 A4BF4DL	4863 *	7.48	8710	10.24	5881	14.12
05 A4BF8DL	3216	7.48	15626 *	10.24	9812 *	14.13
06 A4CG8DL	2831	7.48	7680	10.24	5209	14.12
07 A4BF3DL	3072	7.48	14765 *	10.24	9553 *	14.12
08 A4CH4DL	3759	7.48	10286 *	10.24	6897 *	14.12
09 A4BY8DL	3287	7.48	9070	10.24	9877 *	14.12

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM072324 SAS No.: BM072324 SDG NO.: BM072324

EPA Sample No.: SSTD0.4038 Date Analyzed: Jul 23 2024 12:00AM

Lab File ID: BM046501.D Time Analyzed: 10:52

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	6121	16.913	5430	21.119	6721	23.267
UPPER LIMIT	12242	17.413	10860	21.619	13442	23.767
LOWER LIMIT	3060.5	16.413	2715	20.619	3360.5	22.767
EPA SAMPLE NO.						
01 SBLK090	22519 *	16.88	11725 *	21.09	10500	23.22
02 A4CH8DL	15688 *	16.88	12056 *	21.09	12035	23.22
03 A4BE7DL	15794 *	16.88	13483 *	21.09	12975	23.22
04 A4BF4DL	12637 *	16.88	9691	21.09	9455	23.22
05 A4BF8DL	19956 *	16.88	9364	21.09	8914	23.22
06 A4CG8DL	11394	16.88	8844	21.09	8633	23.22
07 A4BF3DL	19733 *	16.88	9581	21.09	9375	23.22
08 A4CH4DL	14338 *	16.88	9744	21.09	10029	23.22
09 A4BY8DL	13475 *	16.88	9911	21.09	9317	23.22

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.: BM072324 SAS No.: BM072324 SDG NO.: BM072324

EPA Sample No.: SSTD0.4180 Date Analyzed: Jul 23 2024 12:00AM

Lab File ID: BM046770.D Time Analyzed: 10:52

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	7678	16.88	6362	21.087	6938	23.224
UPPER LIMIT	15356	17.38	12724	21.587	13876	23.724
LOWER LIMIT	3839	16.38	3181	20.587	3469	22.724
EPA SAMPLE NO.						
01 SBLK090	22519 *	16.88	11725	21.09	10500	23.22
02 A4CH8DL	15688 *	16.88	12056	21.09	12035	23.22
03 A4BE7DL	15794 *	16.88	13483 *	21.09	12975	23.22
04 A4BF4DL	12637	16.88	9691	21.09	9455	23.22
05 A4BF8DL	19956 *	16.88	9364	21.09	8914	23.22
06 A4CG8DL	11394	16.88	8844	21.09	8633	23.22
07 A4BF3DL	19733 *	16.88	9581	21.09	9375	23.22
08 A4CH4DL	14338	16.88	9744	21.09	10029	23.22
09 A4BY8DL	13475	16.88	9911	21.09	9317	23.22

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK090

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM072324

SAS No.: BM072324 SDG NO.: BM072324

Lab File ID: BM046771.D

Lab Sample ID: PB162090BL

Instrument ID: BNA_M

Date Extracted: 07/16/2024

Matrix: (soil/water) Solid

Date Analyzed: 07/23/2024

Level: (low/med) LOW

Time Analyzed: 10:52

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

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

COMMENTS:



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Surrogate Summary

SW-846

SDG No.: BM072324

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P3201-02DL	A4BY8DL	BM046779.D	1,4-Dioxane-d8	8	2.96	37		15	120
			Fluoranthene-d10	0.4	0.27	68		30	130
			2-Methylnaphthalene-d10	0.4	0.23	57		20	140
P3201-14DL	A4CH8DL	BM046772.D	1,4-Dioxane-d8	8	2.60	32		15	120
			Fluoranthene-d10	0.4	0.21	52		30	130
			2-Methylnaphthalene-d10	0.4	0.19	47		20	140

Surrogate Summary

SW-846

SDG No.: **BM072324**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3238-04DL	A4BE7DL	BM046773.D	1,4-Dioxane-d8	8	2.87	36		15	120
			Fluoranthene-d10	0.4	0.23	57		30	130
			2-Methylnaphthalene-d10	0.4	0.21	52		20	140
P3238-08DL	A4BF3DL	BM046777.D	1,4-Dioxane-d8	8	2.49	31		15	120
			Fluoranthene-d10	0.4	0.24	59		30	130
			2-Methylnaphthalene-d10	0.4	0.20	50		20	140
P3238-09DL	A4BF4DL	BM046774.D	1,4-Dioxane-d8	8	1.70	21		15	120
			Fluoranthene-d10	0.4	0.22	54		30	130
			2-Methylnaphthalene-d10	0.4	0.19	46		20	140
P3238-12DL	A4BF8DL	BM046775.D	1,4-Dioxane-d8	8	2.13	27		15	120
			Fluoranthene-d10	0.4	0.29	71		30	130
			2-Methylnaphthalene-d10	0.4	0.15	38		20	140
P3238-18DL	A4CG8DL	BM046776.D	1,4-Dioxane-d8	8	2.68	34		15	120
			Fluoranthene-d10	0.4	0.23	56		30	130
			2-Methylnaphthalene-d10	0.4	0.20	50		20	140
P3238-19DL	A4CH4DL	BM046778.D	1,4-Dioxane-d8	8	2.49	31		15	120
			Fluoranthene-d10	0.4	0.24	59		30	130
			2-Methylnaphthalene-d10	0.4	0.20	49		20	140
PB162090BL	PB162090BL	BM046771.D	1,4-Dioxane-d8	8	4.98	62		15	120
			Fluoranthene-d10	0.4	0.45	113		30	130
			2-Methylnaphthalene-d10	0.4	0.49	123		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM072324

Lab Code: CHEM

SAS No.: BM072324

SDG NO.: BM072324

Lab File ID: BM046769.D

DFTPP Injection Date: 07/23/2024

Instrument ID: BNA_M

DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	40.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.2
197	Less than 2.0% of mass 198	0.5
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	30.6
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	8.3
442	Greater than 50% of mass 198	54.6
443	15.0 - 24.0% of mass 442	10.6 (19.3) 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
SSTD0.4180	SSTDCCC0.4	BM046770.D	07/23/2024	10:15
SBLK090	PB162090BL	BM046771.D	07/23/2024	10:52
A4CH8DL	P3201-14DL	BM046772.D	07/23/2024	11:28
A4BE7DL	P3238-04DL	BM046773.D	07/23/2024	12:05
A4BF4DL	P3238-09DL	BM046774.D	07/23/2024	12:41
A4BF8DL	P3238-12DL	BM046775.D	07/23/2024	13:18
A4CG8DL	P3238-18DL	BM046776.D	07/23/2024	13:55
A4BF3DL	P3238-08DL	BM046777.D	07/23/2024	14:31
A4CH4DL	P3238-19DL	BM046778.D	07/23/2024	15:08
A4BY8DL	P3201-02DL	BM046779.D	07/23/2024	15:45
SSTD0.4181	SSTDCCC0.4EC	BM046780.D	07/23/2024	16:22