

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM121624 SAS No.: BM121624 SDG No.: BM121624

Instrument ID: BNA_M Calibration Date/Time: 12/16/2024 : 18:57

Lab File ID: BM049010.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4110 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.541	0.569	0.010	5.1903	50.0
1,4-Dioxane-d8	0.467	0.484	0.010	3.4288	50.0
Naphthalene	1.025	0.996	0.600	-2.8736	50.0
1-Methylnaphthalene	0.638	0.622	0.300	-2.4883	50.0
2-Methylnaphthalene	0.626	0.604	0.300	-3.5969	50.0
Acenaphthylene	1.689	1.637	0.900	-3.0999	50.0
Acenaphthene	1.279	1.265	0.500	-1.0934	50.0
Fluorene	1.420	1.382	0.700	-2.6611	50.0
Pentachlorophenol	0.082	0.057	0.010	-30.374	50.0
Phenanthrene	1.096	1.024	0.300	-6.6277	50.0
Anthracene	0.978	0.898	0.400	-8.1874	50.0
Fluoranthene	1.659	1.684	0.400	1.5425	50.0
Pyrene	1.788	1.705	0.500	-4.6288	50.0
Benzo (a) anthracene	1.408	1.221	0.400	-13.2499	50.0
Chrysene	1.593	1.540	0.400	-3.3212	50.0
Benzo (b) fluoranthene	1.382	1.291	0.200	-6.5755	50.0
Benzo (k) fluoranthene	1.599	1.590	0.200	-0.5782	50.0
Benzo (a) pyrene	1.278	1.228	0.200	-3.9503	50.0
Indeno (1,2,3-cd) pyrene	1.796	1.699	0.200	-5.3708	50.0
Dibenzo (a,h) anthracene	1.397	1.301	0.200	-6.8741	50.0
Benzo (g,h,i) perylene	1.444	1.376	0.200	-4.7198	50.0
Fluoranthene-d10	1.195	1.271	0.400	6.332	50.0
2-Methylnaphthalene-d10	0.510	0.508	0.300	-0.3967	50.0

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.: BM121624 SAS No.: BM121624 SDG No.: BM121624

Instrument ID: BNA_M Calibration Date/Time: 12/16/2024 : 10:00

Lab File ID: BM048996.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD004109 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.541	0.548	0.010	1.2229	40.0
1,4-Dioxane-d8	0.467	0.482	0.010	3.0737	40.0
Naphthalene	1.025	1.020	0.600	-0.538	30.0
1-Methylnaphthalene	0.638	0.639	0.300	0.2239	30.0
2-Methylnaphthalene	0.626	0.621	0.300	-0.788	30.0
Acenaphthylene	1.689	1.663	0.900	-1.5527	30.0
Acenaphthene	1.279	1.272	0.500	-0.5737	30.0
Fluorene	1.420	1.393	0.700	-1.8825	30.0
Pentachlorophenol	0.082	0.057	0.010	-30.8051	50.0
Phenanthrene	1.096	1.030	0.300	-6.0435	30.0
Anthracene	0.978	0.915	0.400	-6.4354	30.0
Fluoranthene	1.659	1.633	0.400	-1.5461	30.0
Pyrene	1.788	1.647	0.500	-7.8678	30.0
Benzo (a) anthracene	1.408	1.220	0.400	-13.3004	30.0
Chrysene	1.593	1.568	0.400	-1.5367	30.0
Benzo (b) fluoranthene	1.382	1.398	0.200	1.1085	30.0
Benzo (k) fluoranthene	1.599	1.596	0.200	-0.1793	30.0
Benzo (a) pyrene	1.278	1.218	0.200	-4.7386	30.0
Indeno (1,2,3-cd) pyrene	1.796	1.555	0.200	-13.3936	30.0
Dibenzo (a,h) anthracene	1.397	1.155	0.200	-17.3392	30.0
Benzo (g,h,i) perylene	1.444	1.353	0.200	-6.3053	30.0
Fluoranthene-d10	1.195	1.228	0.400	2.7718	30.0
2-Methylnaphthalene-d10	0.510	0.510	0.300	0.0751	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	12/11/2024 12:00:00 AM
Project:		Date Received:	12/11/2024 12:00:00 AM
Client Sample ID:	SBLK611	SDG No.:	BM121624
Lab Sample ID:	PB165611BL	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
BM048997.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

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	5.982		15-120		75	SPK: -8
93951-69-0	Fluoranthene-d10	0.351		30-130		88	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.308		30-130		77	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4077	7.573				
1146-65-2	Naphthalene-d8	11222	10.336				
15067-26-2	Acenaphthene-d10	6004	14.205				

Report of Analysis

Client:		Date Collected:	12/11/2024 12:00:00 AM
Project:		Date Received:	12/11/2024 12:00:00 AM
Client Sample ID:	SBLK611	SDG No.:	BM121624
Lab Sample ID:	PB165611BL	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
BM048997.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12692	16.95				
1719-03-5	Chrysene-d12	7867	21.152				
1520-96-3	Perylene-d12	6935	23.309				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/12/2024 12:00:00 AM
Project:		Date Received:	12/12/2024 12:00:00 AM
Client Sample ID:	SBLK614	SDG No.:	BM121624
Lab Sample ID:	PB165614BL	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
BM048998.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

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	6.138		15-120		77	SPK: -8
93951-69-0	Fluoranthene-d10	0.382		30-130		95	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.32		30-130		80	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4526	7.573				
1146-65-2	Naphthalene-d8	12247	10.337				
15067-26-2	Acenaphthene-d10	6279	14.206				

Report of Analysis

Client:		Date Collected:	12/12/2024 12:00:00 AM
Project:		Date Received:	12/12/2024 12:00:00 AM
Client Sample ID:	SBLK614	SDG No.:	BM121624
Lab Sample ID:	PB165614BL	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
BM048998.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12751	16.951				
1719-03-5	Chrysene-d12	7464	21.151				
1520-96-3	Perylene-d12	6493	23.311				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E29R7	SDG No.:	BM121624
Lab Sample ID:	P5228-01	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
BM048999.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

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	5.108		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.502		30-130		125	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.357		30-130		89	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4523	7.573				
1146-65-2	Naphthalene-d8	12460	10.337				
15067-26-2	Acenaphthene-d10	6383	14.206				

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E29R7	SDG No.:	BM121624
Lab Sample ID:	P5228-01	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
BM048999.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12670	16.951				
1719-03-5	Chrysene-d12	8445	21.149				
1520-96-3	Perylene-d12	7466	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E2AT0	SDG No.:	BM121624
Lab Sample ID:	P5228-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049000.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0.03	J	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.064		15-120		63	SPK: -8
93951-69-0	Fluoranthene-d10	0.558	*	30-130		140	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.435		30-130		109	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5960		7.573			
1146-65-2	Naphthalene-d8	17616		10.337			
15067-26-2	Acenaphthene-d10	9551		14.206			

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E2AT0	SDG No.:	BM121624
Lab Sample ID:	P5228-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049000.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19259	16.952				
1719-03-5	Chrysene-d12	10450	21.152				
1520-96-3	Perylene-d12	8725	23.309				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E2AT4	SDG No.:	BM121624
Lab Sample ID:	P5228-04	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049001.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0.02	J	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.753		15-120		59	SPK: -8
93951-69-0	Fluoranthene-d10	0.446		30-130		112	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.367		30-130		92	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5791		7.573			
1146-65-2	Naphthalene-d8	16307		10.337			
15067-26-2	Acenaphthene-d10	8425		14.206			

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	E2AT4	SDG No.:	BM121624
Lab Sample ID:	P5228-04	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049001.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17113	16.951				
1719-03-5	Chrysene-d12	10530	21.149				
1520-96-3	Perylene-d12	9346	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	BH7T2	SDG No.:	BM121624
Lab Sample ID:	P5247-02	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
BM049002.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165610

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.82		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	9.053		15-120		113	SPK: -8
93951-69-0	Fluoranthene-d10	0.51		30-130		127	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.345		30-130		86	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5607	7.573				
1146-65-2	Naphthalene-d8	16858	10.337				
15067-26-2	Acenaphthene-d10	9212	14.206				

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	BH7T2	SDG No.:	BM121624
Lab Sample ID:	P5247-02	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
BM049002.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165610

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19424	16.951				
1719-03-5	Chrysene-d12	11215	21.152				
1520-96-3	Perylene-d12	8992	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	BH7T5	SDG No.:	BM121624
Lab Sample ID:	P5247-04	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
BM049003.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165610

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		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	4.582		15-120		57	SPK: -8
93951-69-0	Fluoranthene-d10	0.462		30-130		115	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.331		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5871	7.573				
1146-65-2	Naphthalene-d8	17666	10.337				
15067-26-2	Acenaphthene-d10	9857	14.206				

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	BH7T5	SDG No.:	BM121624
Lab Sample ID:	P5247-04	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
BM049003.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165610

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	21337	16.951				
1719-03-5	Chrysene-d12	13887	21.149				
1520-96-3	Perylene-d12	11836	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E2AT1	SDG No.:	BM121624
Lab Sample ID:	P5228-11	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000 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
BM049004.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0	U	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	1.784		15-120		22	SPK: -8
93951-69-0	Fluoranthene-d10	0.285		30-130		71	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.208		30-130		52	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9566	7.573				
1146-65-2	Naphthalene-d8	28092	10.337				
15067-26-2	Acenaphthene-d10	15167	14.206				

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E2AT1	SDG No.:	BM121624
Lab Sample ID:	P5228-11	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049004.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	29806	16.951				
1719-03-5	Chrysene-d12	17150	21.152				
1520-96-3	Perylene-d12	15702	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E2AT5	SDG No.:	BM121624
Lab Sample ID:	P5228-12	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000 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
BM049005.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0	U	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	1.913		15-120		24	SPK: -8
93951-69-0	Fluoranthene-d10	0.337		30-130		84	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.239		30-130		60	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8005	7.573				
1146-65-2	Naphthalene-d8	22967	10.337				
15067-26-2	Acenaphthene-d10	12226	14.206				

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E2AT5	SDG No.:	BM121624
Lab Sample ID:	P5228-12	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049005.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	23941	16.951				
1719-03-5	Chrysene-d12	13461	21.152				
1520-96-3	Perylene-d12	12108	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E29R6	SDG No.:	BM121624
Lab Sample ID:	P5228-13	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049006.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

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	4.51		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.403		30-130		101	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.276		30-130		69	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5504	7.573				
1146-65-2	Naphthalene-d8	15435	10.336				
15067-26-2	Acenaphthene-d10	7949	14.205				

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E29R6	SDG No.:	BM121624
Lab Sample ID:	P5228-13	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
BM049006.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	16182	16.95				
1719-03-5	Chrysene-d12	10668	21.152				
1520-96-3	Perylene-d12	10094	23.309				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E29S9	SDG No.:	BM121624
Lab Sample ID:	P5228-14	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049007.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0	U	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.61		15-120		58	SPK: -8
93951-69-0	Fluoranthene-d10	0.454		30-130		113	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.334		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5326		7.573			
1146-65-2	Naphthalene-d8	14998		10.337			
15067-26-2	Acenaphthene-d10	7618		14.206			

Report of Analysis

Client:		Date Collected:	12/10/2024 12:00:00 AM
Project:		Date Received:	12/10/2024 12:00:00 AM
Client Sample ID:	E29S9	SDG No.:	BM121624
Lab Sample ID:	P5228-14	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049007.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	15352	16.951				
1719-03-5	Chrysene-d12	9698	21.149				
1520-96-3	Perylene-d12	9035	23.306				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/11/2024 12:00:00 AM
Project:		Date Received:	12/11/2024 12:00:00 AM
Client Sample ID:	SLCS611	SDG No.:	BM121624
Lab Sample ID:	PB165611BS	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
BM049008.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.42		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.42		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.42		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.41		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.42		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.42		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.72		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.43		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.43		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.47		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.45		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.41		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.45		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.46		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.47		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.45		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.44		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.44		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.45		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.794		15-120		99	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.524	*	30-130		131	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.464		30-130		116	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4912	7.577				
1146-65-2	Naphthalene-d8	13953	10.337				
15067-26-2	Acenaphthene-d10	7552	14.206				

Report of Analysis

Client:		Date Collected:	12/11/2024 12:00:00 AM
Project:		Date Received:	12/11/2024 12:00:00 AM
Client Sample ID:	SLCS611	SDG No.:	BM121624
Lab Sample ID:	PB165611BS	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
BM049008.D	1	12/11/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165611

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14618	16.951				
1719-03-5	Chrysene-d12	9426	21.149				
1520-96-3	Perylene-d12	9273	23.308				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/12/2024 12:00:00 AM
Project:		Date Received:	12/12/2024 12:00:00 AM
Client Sample ID:	SLCS614	SDG No.:	BM121624
Lab Sample ID:	PB165614BS	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
BM049009.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.8		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.37		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	0.35		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.35		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.35		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	0.64		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	0.38		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	0.38		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.38		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.39		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.37		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.37		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	0.38		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.715		15-120		89	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.435		30-130		109	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.393		30-130		98	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4526	7.577				
1146-65-2	Naphthalene-d8	12473	10.337				
15067-26-2	Acenaphthene-d10	6574	14.206				

Report of Analysis

Client:		Date Collected:	12/12/2024 12:00:00 AM
Project:		Date Received:	12/12/2024 12:00:00 AM
Client Sample ID:	SLCS614	SDG No.:	BM121624
Lab Sample ID:	PB165614BS	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
BM049009.D	1	12/12/2024 12:00:00 AM	12/16/2024 12:00:00 AM	PB165614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12473	16.956				
1719-03-5	Chrysene-d12	8490	21.146				
1520-96-3	Perylene-d12	8684	23.305				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Hit Summary Sheet SW-846

SDG No.: BM121624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	E29R7							
P5228-01	E29R7	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID :	E2AT0							
P5228-03	E2AT0	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
P5228-03	E2AT0	Water	Naphthalene		0.030	J 0	0.1	ug/L
			Total Svoc :			0.03		
			Total Concentration:			0.03		
Client ID :	E2AT4							
P5228-04	E2AT4	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
P5228-04	E2AT4	Water	Naphthalene		0.020	J 0	0.1	ug/L
			Total Svoc :			0.02		
			Total Concentration:			0.02		
Client ID :	E2AT1							
P5228-11	E2AT1	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID :	E2AT5							
P5228-12	E2AT5	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID :	E29R6							
P5228-13	E29R6	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID :	E29S9							
P5228-14	E29S9	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID :	BH7T2							
P5247-02	BH7T2	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P5247-02	BH7T2	Water	1,4-Dioxane		0.820	0.029	0.2	ug/L



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

Hit Summary Sheet
SW-846

SDG No.: BM121624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :			0.82		
			Total Concentration:			0.82		
Client ID :	BH7T5							
P5247-04	BH7T5	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P5247-04	BH7T5	Water	1,4-Dioxane		0.740	0.029	0.2	ug/L
			Total Svoc :			0.74		
			Total Concentration:			0.74		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM120924 SAS No.: BM120924 SDG No.: BM120924
Instrument ID: _____ Calibration Date(s): 12/9/2024 : _____
Calibration Time(s): 14:18 _____

LAB FILE ID:		RRFAL1 = BM048907.D			RRFAL2 = BM048908.D		RRFAL3 = BM048909.D	
		RRFAL4 = BM048910.D			RRFAL5 = BM048911.D		RRFAL6 = BM048912.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.554	0.612	0.519	0.513	0.507	0.541	8.0
1,4-Dioxane-d8		0.444	0.512	0.464	0.463	0.455	0.467	5.6
Naphthalene	1.053	1.010	1.126	0.975	0.964		1.025	6.4
1-Methylnaphthalene	0.649	0.626	0.709	0.607	0.599		0.638	6.9
2-Methylnaphthalene	0.646	0.604	0.691	0.598	0.592		0.626	6.7
Acenaphthylene	1.721	1.644	1.864	1.616	1.603		1.689	6.4
Acenaphthene	1.311	1.233	1.422	1.222	1.208		1.279	7.0
Fluorene	1.447	1.329	1.577	1.381	1.366		1.420	6.9
Pentachlorophenol		0.071	0.084	0.077	0.087	0.092	0.082	10.0
Phenanthrene	1.120	1.053	1.193	1.061	1.054		1.096	5.6
Anthracene	0.979	0.933	1.057	0.956	0.963		0.978	4.9
Fluoranthene	1.723	1.691	1.864	1.543	1.472		1.659	9.3
Pyrene	1.923	1.819	1.998	1.637	1.563		1.788	10.3
Benzo (a) anthracene	1.462	1.344	1.520	1.343	1.369		1.408	5.7
Chrysene	1.609	1.585	1.781	1.517	1.472		1.593	7.5
Benzo (b) fluoranthene	1.371	1.323	1.476	1.343	1.399		1.382	4.3
Benzo (k) fluoranthene	1.573	1.615	1.794	1.531	1.482		1.599	7.5
Benzo (a) pyrene	1.284	1.271	1.374	1.227	1.236		1.278	4.6
Indeno (1,2,3-cd) pyrene	1.695	1.689	2.060	1.748	1.785		1.796	8.5
Dibenzo (a,h) anthracene	1.339	1.308	1.585	1.363	1.392		1.397	7.8
Benzo (g,h,i) perylene	1.390	1.398	1.586	1.417	1.431		1.444	5.6
Fluoranthene-d10	1.240	1.231	1.351	1.106	1.046		1.195	10.1
2-Methylnaphthalene-d10	0.516	0.497	0.564	0.490	0.484		0.510	6.4

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.: BM121624 SAS No.: BM121624 SDG NO.: BM121624

EPA Sample No.: SSTD0.4008 Date Analyzed: Dec 16 2024 12:00AM

Lab File ID: BM048909.D Time Analyzed: 10:36

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	3702	7.586	9933	10.35	5287	14.22
UPPER LIMIT	7404	8.086	19866	10.852	10574	14.723
LOWER LIMIT	1851	7.086	4966.5	9.852	2643.5	13.723
EPA SAMPLE NO.						
01 SBLK611	4077	7.57	11222	10.34	6004	14.21
02 SBLK614	4526	7.57	12247	10.34	6279	14.21
03 E29R7	4523	7.57	12460	10.34	6383	14.21
04 E2AT0	5960	7.57	17616	10.34	9551	14.21
05 E2AT4	5791	7.57	16307	10.34	8425	14.21
06 BH7T2	5607	7.57	16858	10.34	9212	14.21
07 BH7T5	5871	7.57	17666	10.34	9857	14.21
08 E2AT1	9566 *	7.57	28092 *	10.34	15167 *	14.21
09 E2AT5	8005 *	7.57	22967 *	10.34	12226 *	14.21
10 E29R6	5504	7.57	15435	10.34	7949	14.21
11 E29S9	5326	7.57	14998	10.34	7618	14.21
12 SLCS611	4912	7.58	13953	10.34	7552	14.21
13 SLCS614	4526	7.58	12473	10.34	6574	14.21

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.: BM121624 SAS No.: BM121624 SDG NO.: BM121624

EPA Sample No.: SSTD004109 Date Analyzed: Dec 16 2024 12:00AM

Lab File ID: BM048996.D Time Analyzed: 10:36

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	4412	7.573	11875	10.34	6301	14.21
	UPPER LIMIT	8824	8.073	23750	10.837	12602	14.706
	LOWER LIMIT	2206	7.073	5937.5	9.837	3150.5	13.706
	EPA SAMPLE NO.						
01	SBLK611	4077	7.57	11222	10.34	6004	14.21
02	SBLK614	4526	7.57	12247	10.34	6279	14.21
03	E29R7	4523	7.57	12460	10.34	6383	14.21
04	E2AT0	5960	7.57	17616	10.34	9551	14.21
05	E2AT4	5791	7.57	16307	10.34	8425	14.21
06	BH7T2	5607	7.57	16858	10.34	9212	14.21
07	BH7T5	5871	7.57	17666	10.34	9857	14.21
08	E2AT1	9566 *	7.57	28092 *	10.34	15167 *	14.21
09	E2AT5	8005	7.57	22967	10.34	12226	14.21
10	E29R6	5504	7.57	15435	10.34	7949	14.21
11	E29S9	5326	7.57	14998	10.34	7618	14.21
12	SLCS611	4912	7.58	13953	10.34	7552	14.21
13	SLCS614	4526	7.58	12473	10.34	6574	14.21

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.: BM121624 SAS No.: BM121624 SDG NO.: BM121624

EPA Sample No.: SSTD0.4008 Date Analyzed: Dec 16 2024 12:00AM

Lab File ID: BM048909.D Time Analyzed: 10:36

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	10936	16.967	8330	21.164	9341	23.335
UPPER LIMIT	21872	17.467	16660	21.664	18682	23.835
LOWER LIMIT	5468	16.467	4165	20.664	4670.5	22.835
EPA SAMPLE NO.						
01 SBLK611	12692	16.95	7867	21.15	6935	23.31
02 SBLK614	12751	16.95	7464	21.15	6493	23.31
03 E29R7	12670	16.95	8445	21.15	7466	23.31
04 E2AT0	19259	16.95	10450	21.15	8725	23.31
05 E2AT4	17113	16.95	10530	21.15	9346	23.31
06 BH7T2	19424	16.95	11215	21.15	8992	23.31
07 BH7T5	21337	16.95	13887	21.15	11836	23.31
08 E2AT1	29806 *	16.95	17150 *	21.15	15702	23.31
09 E2AT5	23941 *	16.95	13461	21.15	12108	23.31
10 E29R6	16182	16.95	10668	21.15	10094	23.31
11 E29S9	15352	16.95	9698	21.15	9035	23.31
12 SLCS611	14618	16.95	9426	21.15	9273	23.31
13 SLCS614	12473	16.96	8490	21.15	8684	23.31

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.: BM121624 SAS No.: BM121624 SDG NO.: BM121624

EPA Sample No.: SSTD004109 Date Analyzed: Dec 16 2024 12:00AM

Lab File ID: BM048996.D Time Analyzed: 10:36

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	13193	16.956	9146	21.152	8704	23.311
UPPER LIMIT	26386	17.456	18292	21.652	17408	23.811
LOWER LIMIT	6596.5	16.456	4573	20.652	4352	22.811
EPA SAMPLE NO.						
01 SBLK611	12692	16.95	7867	21.15	6935	23.31
02 SBLK614	12751	16.95	7464	21.15	6493	23.31
03 E29R7	12670	16.95	8445	21.15	7466	23.31
04 E2AT0	19259	16.95	10450	21.15	8725	23.31
05 E2AT4	17113	16.95	10530	21.15	9346	23.31
06 BH7T2	19424	16.95	11215	21.15	8992	23.31
07 BH7T5	21337	16.95	13887	21.15	11836	23.31
08 E2AT1	29806 *	16.95	17150	21.15	15702	23.31
09 E2AT5	23941	16.95	13461	21.15	12108	23.31
10 E29R6	16182	16.95	10668	21.15	10094	23.31
11 E29S9	15352	16.95	9698	21.15	9035	23.31
12 SLCS611	14618	16.95	9426	21.15	9273	23.31
13 SLCS614	12473	16.96	8490	21.15	8684	23.31

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM121624

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB165611BS	1,4-Dioxane	2	2	ug/L	100				0	0		
	Naphthalene	0.4	0.42	ug/L	105				0	0		
	1-Methylnaphthalene	0.4	0.42	ug/L	105				0	0		
	2-Methylnaphthalene	0.4	0.42	ug/L	105				0	0		
	Acenaphthylene	0.4	0.41	ug/L	103				0	0		
	Acenaphthene	0.4	0.42	ug/L	105				0	0		
	Fluorene	0.4	0.42	ug/L	105				0	0		
	Pentachlorophenol	0.8	0.72	ug/L	90				0	0		
	Phenanthrene	0.4	0.43	ug/L	108				0	0		
	Anthracene	0.4	0.43	ug/L	108				0	0		
	Fluoranthene	0.4	0.47	ug/L	117				0	0		
	Pyrene	0.4	0.45	ug/L	113				0	0		
	Benzo(a)anthracene	0.4	0.41	ug/L	103				0	0		
	Chrysene	0.4	0.45	ug/L	113				0	0		
	Benzo(b)fluoranthene	0.4	0.46	ug/L	115				0	0		
	Benzo(k)fluoranthene	0.4	0.47	ug/L	117				0	0		
	Benzo(a)pyrene	0.4	0.45	ug/L	113				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0.44	ug/L	110				0	0		
	Dibenzo(a,h)anthracene	0.4	0.44	ug/L	110				0	0		
	Benzo(g,h,i)perylene	0.4	0.45	ug/L	113				0	0		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM121624

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB165614BS	1,4-Dioxane	2	1.8	ug/L	90				0	0		
	Naphthalene	0.4	0.37	ug/L	93				0	0		
	1-Methylnaphthalene	0.4	0.35	ug/L	88				0	0		
	2-Methylnaphthalene	0.4	0.35	ug/L	88				0	0		
	Acenaphthylene	0.4	0.35	ug/L	88				0	0		
	Acenaphthene	0.4	0.35	ug/L	88				0	0		
	Fluorene	0.4	0.35	ug/L	88				0	0		
	Pentachlorophenol	0.8	0.64	ug/L	80				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	0.38	ug/L	95				0	0		
	Pyrene	0.4	0.36	ug/L	90				0	0		
	Benzo(a)anthracene	0.4	0.33	ug/L	83				0	0		
	Chrysene	0.4	0.38	ug/L	95				0	0		
	Benzo(b)fluoranthene	0.4	0.38	ug/L	95				0	0		
	Benzo(k)fluoranthene	0.4	0.39	ug/L	98				0	0		
	Benzo(a)pyrene	0.4	0.37	ug/L	93				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0.37	ug/L	93				0	0		
	Dibenzo(a,h)anthracene	0.4	0.36	ug/L	90				0	0		
	Benzo(g,h,i)perylene	0.4	0.38	ug/L	95				0	0		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

BH7T2

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121624

SAS No.: BM121624 SDG NO.: BM121624

Lab File ID: BM049002.D

Lab Sample ID: P5247-02

Instrument ID: BNA_M

Date Extracted: 12/11/2024

Matrix: (soil/water) Water

Date Analyzed: 12/16/2024

Level: (low/med) LOW

Time Analyzed: 13:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BH7T2	P5247-02	BM049002.D	12/16/2024
BH7T5	P5247-04	BM049003.D	12/16/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK611

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121624

SAS No.: BM121624 SDG NO.: BM121624

Lab File ID: BM048997.D

Lab Sample ID: PB165611BL

Instrument ID: BNA_M

Date Extracted: 12/11/2024

Matrix: (soil/water) Water

Date Analyzed: 12/16/2024

Level: (low/med) LOW

Time Analyzed: 10:36

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
E29R7	P5228-01	BM048999.D	12/16/2024
E2AT0	P5228-03	BM049000.D	12/16/2024
E2AT4	P5228-04	BM049001.D	12/16/2024
PB165611BS	PB165611BS	BM049008.D	12/16/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK614

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121624

SAS No.: BM121624 SDG NO.: BM121624

Lab File ID: BM048998.D

Lab Sample ID: PB165614BL

Instrument ID: BNA_M

Date Extracted: 12/12/2024

Matrix: (soil/water) Water

Date Analyzed: 12/16/2024

Level: (low/med) LOW

Time Analyzed: 11:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
E2AT1	P5228-11	BM049004.D	12/16/2024
E2AT5	P5228-12	BM049005.D	12/16/2024
E29R6	P5228-13	BM049006.D	12/16/2024
E29S9	P5228-14	BM049007.D	12/16/2024
PB165614BS	PB165614BS	BM049009.D	12/16/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: BM121624

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P5247-02	BH7T2	BM049002.D	1,4-Dioxane-d8	8	9.05	113		15	120
			Fluoranthene-d10	0.4	0.51	127		30	130
			2-Methylnaphthalene-d10	0.4	0.35	86		30	130
P5247-04	BH7T5	BM049003.D	1,4-Dioxane-d8	8	4.58	57		15	120
			Fluoranthene-d10	0.4	0.46	115		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130

Surrogate Summary

SW-846

SDG No.: **BM121624**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P5228-01	E29R7	BM048999.D	1,4-Dioxane-d8	8	5.11	64		15	120
			Fluoranthene-d10	0.4	0.50	125		30	130
			2-Methylnaphthalene-d10	0.4	0.36	89		30	130
P5228-03	E2AT0	BM049000.D	1,4-Dioxane-d8	8	5.06	63		15	120
			Fluoranthene-d10	0.4	0.56	140	*	30	130
			2-Methylnaphthalene-d10	0.4	0.44	109		30	130
P5228-04	E2AT4	BM049001.D	1,4-Dioxane-d8	8	4.75	59		15	120
			Fluoranthene-d10	0.4	0.45	112		30	130
			2-Methylnaphthalene-d10	0.4	0.37	92		30	130
PB165611BL	PB165611BL	BM048997.D	1,4-Dioxane-d8	8	5.98	75		15	120
			Fluoranthene-d10	0.4	0.35	88		30	130
			2-Methylnaphthalene-d10	0.4	0.31	77		30	130
PB165611BS	PB165611BS	BM049008.D	1,4-Dioxane-d8	0.8	0.79	99		15	120
			Fluoranthene-d10	0.4	0.52	131	*	30	130
			2-Methylnaphthalene-d10	0.4	0.46	116		30	130

Surrogate Summary

SW-846

SDG No.: **BM121624**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P5228-11	E2AT1	BM049004.D	1,4-Dioxane-d8	8	1.78	22		15	120
			Fluoranthene-d10	0.4	0.29	71		30	130
			2-Methylnaphthalene-d10	0.4	0.21	52		30	130
P5228-12	E2AT5	BM049005.D	1,4-Dioxane-d8	8	1.91	24		15	120
			Fluoranthene-d10	0.4	0.34	84		30	130
			2-Methylnaphthalene-d10	0.4	0.24	60		30	130
P5228-13	E29R6	BM049006.D	1,4-Dioxane-d8	8	4.51	56		15	120
			Fluoranthene-d10	0.4	0.40	101		30	130
			2-Methylnaphthalene-d10	0.4	0.28	69		30	130
P5228-14	E29S9	BM049007.D	1,4-Dioxane-d8	8	4.61	58		15	120
			Fluoranthene-d10	0.4	0.45	113		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130
PB165614BL	PB165614BL	BM048998.D	1,4-Dioxane-d8	8	6.14	77		15	120
			Fluoranthene-d10	0.4	0.38	95		30	130
			2-Methylnaphthalene-d10	0.4	0.32	80		30	130
PB165614BS	PB165614BS	BM049009.D	1,4-Dioxane-d8	0.8	0.72	89		15	120
			Fluoranthene-d10	0.4	0.44	109		30	130
			2-Methylnaphthalene-d10	0.4	0.39	98		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM121624

Lab Code: CHEM

SAS No.: BM121624 SDG NO.: BM121624

Lab File ID: BM048995.D

DFTPP Injection Date: 12/16/2024

Instrument ID: BNA_M

DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	41.7
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.4
442	Greater than 50% of mass 198	71.2
443	15.0 - 24.0% of mass 442	13.8 (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
SSTD004109	SSTDCCC004	BM048996.D	12/16/2024	10:00
SBLK611	PB165611BL	BM048997.D	12/16/2024	10:36
SBLK614	PB165614BL	BM048998.D	12/16/2024	11:11
E29R7	P5228-01	BM048999.D	12/16/2024	11:47
E2AT0	P5228-03	BM049000.D	12/16/2024	12:23
E2AT4	P5228-04	BM049001.D	12/16/2024	12:59
BH7T2	P5247-02	BM049002.D	12/16/2024	13:35
BH7T5	P5247-04	BM049003.D	12/16/2024	14:10
E2AT1	P5228-11	BM049004.D	12/16/2024	14:46
E2AT5	P5228-12	BM049005.D	12/16/2024	15:22
E29R6	P5228-13	BM049006.D	12/16/2024	15:58
E29S9	P5228-14	BM049007.D	12/16/2024	16:34
SLCS611	PB165611BS	BM049008.D	12/16/2024	17:09
SLCS614	PB165614BS	BM049009.D	12/16/2024	17:45
SSTD0.4110	SSTDCCC0.4EC	BM049010.D	12/16/2024	18:57