



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM031124 SAS No.: BM031124 SDG No.: BM031124

Instrument ID: BNA_M Calibration Date/Time: 3/11/2024 1:18:11

Lab File ID: BM044582.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4051 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.529	0.010	-1.2766	50.0
1,4-Dioxane-d8	0.524	0.506	0.010	-3.5117	50.0
Naphthalene	1.125	1.091	0.600	-3.0742	50.0
1-Methylnaphthalene	0.719	0.710	0.300	-1.3296	50.0
2-Methylnaphthalene	0.712	0.705	0.300	-1.0231	50.0
Acenaphthylene	2.032	1.935	0.900	-4.7827	50.0
Acenaphthene	1.468	1.430	0.500	-2.5897	50.0
Fluorene	1.677	1.643	0.700	-2.001	50.0
Pentachlorophenol	0.096	0.120	0.010	24.8421	50.0
Phenanthrene	1.201	1.241	0.300	3.3727	50.0
Anthracene	1.128	1.196	0.400	6.0261	50.0
Fluoranthene	1.959	1.898	0.400	-3.1091	50.0
Pyrene	2.007	1.981	0.500	-1.2848	50.0
Benzo(a)anthracene	1.523	1.658	0.400	8.9024	50.0
Chrysene	1.710	1.749	0.400	2.268	50.0
Benzo(b)fluoranthene	1.527	1.634	0.200	7.012	50.0
Benzo(k)fluoranthene	1.654	1.792	0.200	8.3761	50.0
Benzo(a)pyrene	1.386	1.470	0.200	6.0067	50.0
Indeno(1,2,3-cd)pyrene	1.595	1.721	0.200	7.8908	50.0
Dibenzo(a,h)anthracene	1.230	1.320	0.200	7.2925	50.0
Benzo(g,h,i)perylene	1.400	1.428	0.200	1.995	50.0
Fluoranthene-d10	1.404	1.349	0.400	-3.9279	50.0
2-Methylnaphthalene-d10	0.575	0.571	0.300	-0.693	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.: BM031124 SAS No.: BM031124 SDG No.: BM031124
Instrument ID: BNA_M Calibration Date/Time: 3/11/2024 1:14:07
Lab File ID: BM044577.D Init. Calib. Date(s): _____
EPA Sample No.: SICV021 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.465	0.010	-13.261	40.0
1,4-Dioxane-d8	0.524	0.486	0.010	-7.3904	40.0
Naphthalene	1.125	1.106	0.600	-1.7291	30.0
1-Methylnaphthalene	0.719	0.689	0.300	-4.1865	30.0
2-Methylnaphthalene	0.712	0.733	0.300	2.922	30.0
Acenaphthylene	2.032	2.007	0.900	-1.2295	30.0
Acenaphthene	1.468	1.393	0.500	-5.0774	30.0
Fluorene	1.677	1.648	0.700	-1.7534	30.0
Pentachlorophenol	0.096	0.072	0.010	-25.6598	50.0
Phenanthrene	1.201	1.142	0.300	-4.919	30.0
Anthracene	1.128	1.051	0.400	-6.8258	30.0
Fluoranthene	1.959	1.948	0.400	-0.525	30.0
Pyrene	2.007	1.975	0.500	-1.5655	30.0
Benzo(a)anthracene	1.523	1.404	0.400	-7.823	30.0
Chrysene	1.710	1.677	0.400	-1.9284	30.0
Benzo(b)fluoranthene	1.527	1.470	0.200	-3.7391	30.0
Benzo(k)fluoranthene	1.654	1.563	0.200	-5.4656	30.0
Benzo(a)pyrene	1.386	1.285	0.200	-7.2885	30.0
Indeno(1,2,3-cd)pyrene	1.595	1.540	0.200	-3.4131	30.0
Dibenzo(a,h)anthracene	1.230	1.163	0.200	-5.5013	30.0
Benzo(g,h,i)perylene	1.400	1.310	0.200	-6.4478	30.0
Fluoranthene-d10	1.404	1.364	0.400	-2.8464	30.0
2-Methylnaphthalene-d10	0.575	0.558	0.300	-2.9696	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	SSTD0.4051			SDG No.:	BM031124		
Lab Sample ID:	SSTDCCC0.4			Matrix:	Water		
Analytical Method:	SFAM_SVOASIM			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000		uL
Soil Aliquot Vol:			uL	Test:			
Extraction Type :		Decanted :		Level :	LOW		
Injection Volume :		GPC Factor :		GPC Cleanup :		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044570.D	1		3/11/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	370		29	0	200	ug/L
91-20-3	Naphthalene	370		4.3	50	100	ug/L
90-12-0	1-Methylnaphthalene	380		15	50	100	ug/L
91-57-6	2-Methylnaphthalene	380		5.3	50	100	ug/L
208-96-8	Acenaphthylene	380		12	50	100	ug/L
83-32-9	Acenaphthene	380		7.4	50	100	ug/L
86-73-7	Fluorene	380		6.7	50	100	ug/L
87-86-5	Pentachlorophenol	340		63	100	200	ug/L
85-01-8	Phenanthrene	380		6.8	50	100	ug/L
120-12-7	Anthracene	380		8	50	100	ug/L
206-44-0	Fluoranthene	370		7.9	50	100	ug/L
129-00-0	Pyrene	370		6	50	100	ug/L
56-55-3	Benzo(a)anthracene	380		3.6	50	100	ug/L
218-01-9	Chrysene	380		7.7	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	370		13	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	380		9.8	50	100	ug/L
50-32-8	Benzo(a)pyrene	370		17	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	370		17	50	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	370		14	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	380		22	50	100	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	361	*	15-120		4513	SPK: -8
93951-69-0	Fluoranthene-d10	366	*	30-130		91500	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	375	*	30-130		93750	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6036		7.728			
1146-65-2	Naphthalene-d8	19723		10.506			
15067-26-2	Acenaphthene-d10	10968		14.367			
1517-22-2	Phenanthrene-d10	24361		17.123			
1719-03-5	Chrysene-d12	17081		21.319			
1520-96-3	Perylene-d12	16979		23.575			



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Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	SSTD0.4051	SDG No.:	BM031124
Lab Sample ID:	SSTDCCC0.4	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000000 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
BM044570.D	1		3/11/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	29	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/4/2024 12:00:00 AM
Project:		Date Received:	3/4/2024 12:00:00 AM
Client Sample ID:	SBLK426	SDG No.:	BM031124
Lab Sample ID:	PB159426BL	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
BM044578.D	1	3/4/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159426

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	0.664		15-120		83	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.364		30-130		91	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.306		30-130		76	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5639	7.723				
1146-65-2	Naphthalene-d8	17505	10.517				
15067-26-2	Acenaphthene-d10	9834	14.376				
1517-22-2	Phenanthrene-d10	22366	17.14				
1719-03-5	Chrysene-d12	13708	21.324				
1520-96-3	Perylene-d12	13387	23.584				



Report of Analysis

Client:		Date Collected:	3/4/2024 12:00:00 AM
Project:		Date Received:	3/4/2024 12:00:00 AM
Client Sample ID:	SBLK426	SDG No.:	BM031124
Lab Sample ID:	PB159426BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	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
BM044578.D	1	3/4/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT1-2024-01	SDG No.:	BM031124
Lab Sample ID:	P1601-01	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
BM044579.D	1	3/4/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.09	J	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.07	J	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.07	J	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.07	J	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.07	J	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.07	J	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.07	J	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	0.07	J	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.06	J	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.07	J	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.07	J	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.06	J	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.08	J	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.06	J	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.07	J	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	J	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.07	J	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.07	J	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.07	J	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.407		15-120		51	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.431		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.38		30-130		95	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5394		7.724			
1146-65-2	Naphthalene-d8	16992		10.512			
15067-26-2	Acenaphthene-d10	9621		14.372			
1517-22-2	Phenanthrene-d10	21746		17.132			
1719-03-5	Chrysene-d12	13070		21.325			
1520-96-3	Perylene-d12	13072		23.584			



Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT1-2024-01	SDG No.:	BM031124
Lab Sample ID:	P1601-01	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
BM044579.D	1	3/4/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT1-2024-01	SDG No.:	BM031124
Lab Sample ID:	P1601-03	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
BM044580.D	1	3/5/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.8	J	0.89	0	6.6	ug/Kg
91-20-3	Naphthalene	2.3	J	0.2	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.3	J	0.52	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2.2	J	0.19	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	2.3	J	0.33	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	2.3	J	0.18	0.83	3.3	ug/Kg
86-73-7	Fluorene	2.2	J	0.22	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.1	J	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.2	J	0.18	0.83	3.3	ug/Kg
120-12-7	Anthracene	1.9	J	0.17	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	2.4	J	0.18	0.83	3.3	ug/Kg
129-00-0	Pyrene	2.4	J	0.24	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	1.9	J	0.09	0.83	3.3	ug/Kg
218-01-9	Chrysene	2.5	J	0.25	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.2	J	0.47	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.4	J	0.32	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	2.3	J	0.32	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.9	J	0.52	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.2	J	0.47	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2.2	J	0.75	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.406		15-120		51	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.429		30-130		107	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.383		20-140		96	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5479		7.728			
1146-65-2	Naphthalene-d8	17513		10.512			
15067-26-2	Acenaphthene-d10	9958		14.371			
1517-22-2	Phenanthrene-d10	22309		17.132			
1719-03-5	Chrysene-d12	13576		21.324			
1520-96-3	Perylene-d12	13569		23.584			



Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT1-2024-01	SDG No.:	BM031124
Lab Sample ID:	P1601-03	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
BM044580.D	1	3/5/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	3/5/2024 12:00:00 AM
Project:		Date Received:	3/5/2024 12:00:00 AM
Client Sample ID:	SBLK445	SDG No.:	BM031124
Lab Sample ID:	PB159445BL	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
BM044581.D	1	3/5/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89	U	0.89	0	6.6	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	0.62		15-120		77	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.338		30-130		84	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.302		20-140		75	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5627		7.728			
1146-65-2	Naphthalene-d8	17428		10.517			
15067-26-2	Acenaphthene-d10	9954		14.376			
1517-22-2	Phenanthrene-d10	23018		17.136			
1719-03-5	Chrysene-d12	14904		21.327			
1520-96-3	Perylene-d12	14731		23.584			



Report of Analysis

Client:		Date Collected:	3/5/2024 12:00:00 AM
Project:		Date Received:	3/5/2024 12:00:00 AM
Client Sample ID:	SBLK445	SDG No.:	BM031124
Lab Sample ID:	PB159445BL	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
BM044581.D	1	3/5/2024 12:00:00 AM	3/11/2024 12:00:00 AM	PB159445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Hit Summary Sheet

SW-846

SDG No.: BM031124

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT1-2024-01							
P1601-01	MDL-WATER-QT1-2024 Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
		Total Tics :			0.00		
P1601-01	MDL-WATER-QT1-2024 Water	1,4-Dioxane		0.090 J	0.029	0.2	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	1-Methylnaphthalene		0.070 J	0.015	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	2-Methylnaphthalene		0.070 J	0.0053	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Acenaphthene		0.070 J	0.0074	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Acenaphthylene		0.070 J	0.012	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Anthracene		0.060 J	0.008	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Benzo(a)anthracene		0.060 J	0.0036	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Benzo(a)pyrene		0.060 J	0.017	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Benzo(b)fluoranthene		0.060 J	0.013	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Benzo(g,h,i)perylene		0.070 J	0.022	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Benzo(k)fluoranthene		0.070 J	0.0098	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Chrysene		0.080 J	0.0077	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Dibenzo(a,h)anthracene		0.070 J	0.014	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Fluoranthene		0.070 J	0.0079	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Fluorene		0.070 J	0.0067	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Indeno(1,2,3-cd)pyrene		0.070 J	0.017	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Naphthalene		0.070 J	0.0043	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Phenanthrene		0.070 J	0.0068	0.1	ug/L
P1601-01	MDL-WATER-QT1-2024 Water	Pyrene		0.070 J	0.006	0.1	ug/L
		Total Svoc :			1.32		
		Total Concentration:			1.32		
Client ID : MDL-SOIL-QT1-2024-01							
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Total Alkanes	*	0.000	0.89	6.6	ug/Kg
		Total Tics :			0.00		
P1601-03	MDL-SOIL-QT1-2024-0 Solid	1,4-Dioxane		2.800 J	0.89	6.6	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	1-Methylnaphthalene		2.300 J	0.52	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	2-Methylnaphthalene		2.200 J	0.19	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Acenaphthene		2.300 J	0.18	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Acenaphthylene		2.300 J	0.33	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Anthracene		1.900 J	0.17	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Benzo(a)anthracene		1.900 J	0.09	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Benzo(a)pyrene		2.300 J	0.32	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Benzo(b)fluoranthene		2.200 J	0.47	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Benzo(g,h,i)perylene		2.200 J	0.75	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Benzo(k)fluoranthene		2.400 J	0.32	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Chrysene		2.500 J	0.25	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0 Solid	Dibenzo(a,h)anthracene		2.200 J	0.47	3.3	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: BM031124

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Fluoranthene	2.400	J	0.18	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Fluorene	2.200	J	0.22	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Indeno(1,2,3-cd)pyrene	1.900	J	0.52	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Naphthalene	2.300	J	0.2	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Pentachlorophenol	2.100	J	2	6.7	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Phenanthrene	2.200	J	0.18	3.3	ug/Kg
P1601-03	MDL-SOIL-QT1-2024-0	Solid	Pyrene	2.400	J	0.24	3.3	ug/Kg
Total Svoc :				45.00				
Total Concentration:				45.00				
Client ID :	SSTD0.4051							
SSTDCCC0.4	SSTD0.4051	Water	Total Alkanes	*	0.000	29	200	ug/L
Total Tics :				0.00				
SSTDCCC0.4	SSTD0.4051	Water	1,4-Dioxane		370.000	29	200	ug/L
SSTDCCC0.4	SSTD0.4051	Water	1-Methylnaphthalene		380.000	15	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	2-Methylnaphthalene		380.000	5.3	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Acenaphthene		380.000	7.4	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Acenaphthylene		380.000	12	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Anthracene		380.000	8	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Benzo(a)anthracene		380.000	3.6	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Benzo(a)pyrene		370.000	17	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Benzo(b)fluoranthene		370.000	13	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Benzo(g,h,i)perylene		380.000	22	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Benzo(k)fluoranthene		380.000	9.8	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Chrysene		380.000	7.7	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Dibenzo(a,h)anthracene		370.000	14	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Fluoranthene		370.000	7.9	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Fluorene		380.000	6.7	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Indeno(1,2,3-cd)pyrene		370.000	17	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Naphthalene		370.000	4.3	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Pentachlorophenol		340.000	63	200	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Phenanthrene		380.000	6.8	100	ug/L
SSTDCCC0.4	SSTD0.4051	Water	Pyrene		370.000	6	100	ug/L
Total Svoc :				7,480.00				
Total Concentration:				7,480.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031124

SAS No.: BM031124

SDG No.: BM031124

Instrument ID: _____

Calibration Date(s): 3/11/2024 : _____

Calibration Time(s): 10:30 _____

LAB FILE ID:		RRFAL1 = BM044571.D			RRFAL2 = BM044572.D		RRFAL3 = BM044573.D	
		RRFAL4 = BM044574.D			RRFAL5 = BM044575.D		RRFAL6 = BM044576.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.527	0.521	0.560	0.535	0.536	0.536	2.8
1,4-Dioxane-d8		0.553	0.527	0.525	0.511	0.505	0.524	3.6
Naphthalene	1.133	1.134	1.095	1.151	1.113		1.125	1.9
1-Methylnaphthalene	0.700	0.723	0.704	0.746	0.723		0.719	2.6
2-Methylnaphthalene	0.693	0.707	0.700	0.744	0.716		0.712	2.8
Acenaphthylene	2.058	2.060	1.965	2.049	2.029		2.032	1.9
Acenaphthene	1.490	1.493	1.431	1.490	1.435		1.468	2.2
Fluorene	1.667	1.696	1.651	1.717	1.655		1.677	1.7
Pentachlorophenol		0.088	0.078	0.096	0.101	0.119	0.096	15.9
Phenanthrene	1.189	1.195	1.168	1.245	1.207		1.201	2.4
Anthracene	1.103	1.124	1.093	1.180	1.139		1.128	3.0
Fluoranthene	1.946	1.960	1.986	1.973	1.929		1.959	1.1
Pyrene	2.050	2.026	2.018	2.008	1.930		2.007	2.3
Benzo(a)anthracene	1.456	1.477	1.457	1.616	1.607		1.523	5.4
Chrysene	1.798	1.761	1.700	1.697	1.595		1.710	4.5
Benzo(b)fluoranthene	1.502	1.484	1.492	1.589	1.566		1.527	3.1
Benzo(k)fluoranthene	1.732	1.664	1.616	1.703	1.553		1.654	4.3
Benzo(a)pyrene	1.423	1.390	1.316	1.415	1.388		1.386	3.1
Indeno(1,2,3-cd)pyrene	1.563	1.612	1.517	1.643	1.639		1.595	3.4
Dibenzo(a,h)anthracene	1.192	1.246	1.163	1.267	1.282		1.230	4.1
Benzo(g,h,i)perylene	1.423	1.434	1.370	1.402	1.370		1.400	2.1
Fluoranthene-d10	1.402	1.416	1.425	1.401	1.376		1.404	1.3
2-Methylnaphthalene-d10	0.553	0.574	0.568	0.596	0.583		0.575	2.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECHLab Code: CHEM Case No.: BM031124 SAS No.: BM031124 SDG NO.: BM031124EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 11 2024 12:00AMLab File ID: BM044573.D Time Analyzed: 09:54Instrument 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	5865	7.724	19080	10.51	10924	14.37
UPPER LIMIT	11730	8.224	38160	11.007	21848	14.867
LOWER LIMIT	2932.5	7.224	9540	10.007	5462	13.867
EPA SAMPLE NO.						
01 SSTD0.4051	6036	7.73	19723	10.51	10968	14.37
02 SICV021	6810	7.72	22225	10.50	12961	14.36
03 SBLK426	5639	7.72	17505	10.52	9834	14.38
04 MDL-WATER-QT1-2024-01	5394	7.72	16992	10.51	9621	14.37
05 MDL-SOIL-QT1-2024-01	5479	7.73	17513	10.51	9958	14.37
06 SBLK445	5627	7.73	17428	10.52	9954	14.38

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: CHEMTECHLab Code: CHEM Case No.: BM031124 SAS No.: BM031124 SDG NO.: BM031124

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

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

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

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031124 SAS No.: BM031124 SDG NO.: BM031124

EPA Sample No.: SSTDO.4017 Date Analyzed: Mar 11 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 09:54

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	24518	17.119	15552	21.316	14990	23.575
UPPER LIMIT	49036	17.619	31104	21.816	29980	24.075
LOWER LIMIT	12259	16.619	7776	20.816	7495	23.075
EPA SAMPLE NO.						
01 SSTDO.4051	24361	17.12	17081	21.32	16979	23.58
02 SICV021	29417	17.12	18385	21.32	17618	23.57
03 SBLK426	22366	17.14	13708	21.32	13387	23.58
04 MDL-WATER-QT1-2024-01	21746	17.13	13070	21.33	13072	23.58
05 MDL-SOIL-QT1-2024-01	22309	17.13	13576	21.32	13569	23.58
06 SBLK445	23018	17.14	14904	21.33	14731	23.58

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.: BM031124 SAS No.: BM031124 SDG NO.: BM031124

EPA Sample No.: _____

Date Analyzed: _____

Lab File ID: _____

Time Analyzed: _____

Instrument ID: _____

GC Column: _____ ID: _____ (mm)

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

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



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

SDG No.: BM031124

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

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



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SSTD0.4051

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031124SAS No.: BM031124 SDG NO.: BM031124Lab File ID: BM044570.DLab Sample ID: SSTDCCC0.4Instrument ID: BNA_M

Date Extracted: _____

Matrix: (soil/water) WaterDate Analyzed: 03/11/2024Level: (low/med) LOWTime Analyzed: 09:54

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SSTD0.4051	SSTDCCC0.4	BM044570.D	03/11/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK426

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BM031124

SAS No.: BM031124 SDG NO.: BM031124

Lab File ID: BM044578.D

Lab Sample ID: PB159426BL

Instrument ID: BNA_M

Date Extracted: 03/04/2024

Matrix: (soil/water) Water

Date Analyzed: 03/11/2024

Level: (low/med) LOW

Time Analyzed: 14:43

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT1-2024-01	P1601-01	BM044579.D	03/11/2024

COMMENTS:



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK445

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031124SAS No.: BM031124 SDG NO.: BM031124Lab File ID: BM044581.DLab Sample ID: PB159445BLInstrument ID: BNA_MDate Extracted: 03/05/2024Matrix: (soil/water) SolidDate Analyzed: 03/11/2024Level: (low/med) LOWTime Analyzed: 17:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT1-2024-01	P1601-03	BM044580.D	03/11/2024

COMMENTS: _____



Surrogate Summary
SW-846

SDG No.: BM031124

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDCCC0.4	SSTD0.4051	BM044570.D	1,4-Dioxane-d8	8	361.00	4513	*	15	120
			Fluoranthene-d10	0.4	366.00	91500	*	30	130
			2-Methylnaphthalene-d10	0.4	375.00	93750	*	30	130



Surrogate Summary
SW-846

SDG No.: BM031124

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1601-01	MDL-WATER-QT1	BM044579.D	1,4-Dioxane-d8	0.8	0.41	51		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.38	95		30	130
PB159426BL	PB159426BL	BM044578.D	1,4-Dioxane-d8	0.8	0.66	83		15	120
			Fluoranthene-d10	0.4	0.36	91		30	130
			2-Methylnaphthalene-d10	0.4	0.31	76		30	130



Surrogate Summary
SW-846

SDG No.: BM031124

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1601-03	MDL-SOIL-QT1-2(BM044580.D		1,4-Dioxane-d8	0.8	0.41	51		15	120
			Fluoranthene-d10	0.4	0.43	107		30	130
			2-Methylnaphthalene-d10	0.4	0.38	96		20	140
PB159445BL	PB159445BL	BM044581.D	1,4-Dioxane-d8	0.8	0.62	77		15	120
			Fluoranthene-d10	0.4	0.34	84		30	130
			2-Methylnaphthalene-d10	0.4	0.30	75		20	140



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BM031124Lab Code: CHEMSAS No.: BM031124 SDG NO.: BM031124Lab File ID: BM044569.DDFTPP Injection Date: 03/11/2024Instrument ID: BNA_MDFTPP Injection Time: 09:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.2
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	41.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	49.5
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	23.5
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	12.1
442	Greater than 50% of mass 198	76.5
443	15.0 - 24.0% of mass 442	14.6 (19.1) 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
SSTD0.4051	SSTDCCC0.4	BM044570.D	03/11/2024	09:54
SSTD0.1015	SSTD0.109	BM044571.D	03/11/2024	10:30
SSTD0.2016	SSTD0.210	BM044572.D	03/11/2024	11:07
SSTD0.4017	SSTD0.411	BM044573.D	03/11/2024	11:43
SSTD0.8018	SSTD0.812	BM044574.D	03/11/2024	12:19
SSTD1.6019	SSTD1.613	BM044575.D	03/11/2024	12:55
SSTD3.2020	SSTD3.214	BM044576.D	03/11/2024	13:31
SICV021	SSTDICV0.4	BM044577.D	03/11/2024	14:07
SBLK426	PB159426BL	BM044578.D	03/11/2024	14:43
MDL-WATER-QT1-2024-01	P1601-01	BM044579.D	03/11/2024	16:06
MDL-SOIL-QT1-2024-01	P1601-03	BM044580.D	03/11/2024	16:48
SBLK445	PB159445BL	BM044581.D	03/11/2024	17:35
SSTD0.4051	SSTDCCC0.4EC	BM044582.D	03/11/2024	18:11