

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BN051824 SAS No.: BN051824 SDG No.: BN051824
 Instrument ID: BNA_N Calibration Date/Time: 5/17/2024 1:08:31
 Lab File ID: BN031556.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTD0.4377 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.502	0.505	0.010	0.5584	40.0
1,4-Dioxane-d8	0.482	0.460	0.010	-4.5356	40.0
Naphthalene	1.070	1.000	0.600	-6.5361	30.0
1-Methylnaphthalene	0.714	0.656	0.300	-8.1799	30.0
2-Methylnaphthalene	0.676	0.625	0.300	-7.5616	30.0
Acenaphthylene	1.816	1.702	0.900	-6.2874	30.0
Acenaphthene	1.382	1.308	0.500	-5.3549	30.0
Fluorene	1.534	1.426	0.700	-6.9922	30.0
Pentachlorophenol	0.062	0.050	0.010	-20.2801	50.0
Phenanthrene	1.171	1.094	0.300	-6.5503	30.0
Anthracene	0.989	0.910	0.400	-7.9875	30.0
Fluoranthene	1.487	1.510	0.400	1.5322	30.0
Pyrene	1.472	1.460	0.500	-0.7965	30.0
Benzo (a) anthracene	1.384	1.261	0.400	-8.9018	30.0
Chrysene	1.495	1.363	0.400	-8.8079	30.0
Benzo (b) fluoranthene	1.473	1.342	0.200	-8.8557	30.0
Benzo (k) fluoranthene	1.594	1.506	0.200	-5.5774	30.0
Benzo (a) pyrene	1.290	1.150	0.200	-10.8701	30.0
Indeno (1,2,3-cd) pyrene	1.500	1.355	0.200	-9.6694	30.0
Dibenzo (a,h) anthracene	1.189	1.060	0.200	-10.8504	30.0
Benzo (g,h,i) perylene	1.206	1.032	0.200	-14.4353	30.0
Fluoranthene-d10	1.110	1.114	0.400	0.3775	30.0
2-Methylnaphthalene-d10	0.567	0.518	0.300	-8.5337	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.: BN051824 SAS No.: BN051824 SDG No.: BN051824
Instrument ID: BNA_N Calibration Date/Time: 5/17/2024 1:13:31
Lab File ID: BN031561.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4378 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.502	0.490	0.010	-2.4646	50.0
1,4-Dioxane-d8	0.482	0.464	0.010	-3.65	50.0
Naphthalene	1.070	1.004	0.600	-6.1574	50.0
1-Methylnaphthalene	0.714	0.663	0.300	-7.1905	50.0
2-Methylnaphthalene	0.676	0.631	0.300	-6.5575	50.0
Acenaphthylene	1.816	1.685	0.900	-7.2419	50.0
Acenaphthene	1.382	1.298	0.500	-6.0946	50.0
Fluorene	1.534	1.426	0.700	-7.0131	50.0
Pentachlorophenol	0.062	0.049	0.010	-21.8709	50.0
Phenanthrene	1.171	1.084	0.300	-7.3746	50.0
Anthracene	0.989	0.912	0.400	-7.7997	50.0
Fluoranthene	1.487	1.605	0.400	7.9044	50.0
Pyrene	1.472	1.567	0.500	6.4103	50.0
Benzo (a) anthracene	1.384	1.227	0.400	-11.4057	50.0
Chrysene	1.495	1.371	0.400	-8.2919	50.0
Benzo (b) fluoranthene	1.473	1.396	0.200	-5.2131	50.0
Benzo (k) fluoranthene	1.594	1.572	0.200	-1.3948	50.0
Benzo (a) pyrene	1.290	1.147	0.200	-11.1516	50.0
Indeno (1,2,3-cd) pyrene	1.500	1.293	0.200	-13.7459	50.0
Dibenzo (a,h) anthracene	1.189	1.013	0.200	-14.7552	50.0
Benzo (g,h,i) perylene	1.206	1.002	0.200	-16.8584	50.0
Fluoranthene-d10	1.110	1.197	0.400	7.8764	50.0
2-Methylnaphthalene-d10	0.567	0.524	0.300	-7.4998	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK909	SDG No.:	BN051824
Lab Sample ID:	PB160909BL	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
BN031557.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.031	U	0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.011	U	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.011	U	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.014	U	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.013	U	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.022	U	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.041	U	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.014	U	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.011	U	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.022	U	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.016	U	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.014	U	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.004	U	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.019	U	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.012	U	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.026	U	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.025	U	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.582		15-120		73	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.347		30-130		87	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.289		30-130		72	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	15156	7.7				
1146-65-2	Naphthalene-d8	47841	10.481				
15067-26-2	Acenaphthene-d10	24586	14.332				

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK909	SDG No.:	BN051824
Lab Sample ID:	PB160909BL	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
BN031557.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	54120	17.075				
1719-03-5	Chrysene-d12	36730	21.258				
1520-96-3	Perylene-d12	35152	23.491				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT2-2024-04	SDG No.:	BN051824
Lab Sample ID:	P2409-02	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
BN031558.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.09	J	0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.07	J	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.07	J	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.07	J	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.07	J	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.07	J	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.07	J	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	J	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.07	J	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.06	J	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.08	J	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.08	J	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.06	J	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.07	J	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.06	J	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.07	J	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	J	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.06	J	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.06	J	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.06	J	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.401		15-120		50	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.467		30-130		117	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.373		30-130		93	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	13508	7.696				
1146-65-2	Naphthalene-d8	42506	10.48				
15067-26-2	Acenaphthene-d10	21681	14.331				

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT2-2024-04	SDG No.:	BN051824
Lab Sample ID:	P2409-02	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
BN031558.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	47732	17.074				
1719-03-5	Chrysene-d12	31534	21.26				
1520-96-3	Perylene-d12	28500	23.493				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT2-2024-04	SDG No.:	BN051824
Lab Sample ID:	P2409-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BN031559.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.9	J	1.1	0	6.7	ug/Kg
91-20-3	Naphthalene	2.3	J	0.37	0.82	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.2	J	0.85	0.82	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2.3	J	0.34	0.82	3.3	ug/Kg
208-96-8	Acenaphthylene	2.3	J	0.47	0.82	3.3	ug/Kg
83-32-9	Acenaphthene	2.3	J	0.39	0.82	3.3	ug/Kg
86-73-7	Fluorene	2.3	J	0.68	0.82	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.3	J	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.2	J	0.51	0.82	3.3	ug/Kg
120-12-7	Anthracene	2.1	J	0.52	0.82	3.3	ug/Kg
206-44-0	Fluoranthene	2.7	J	0.68	0.82	3.3	ug/Kg
129-00-0	Pyrene	2.6	J	0.52	0.82	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	2	J	0.42	0.82	3.3	ug/Kg
218-01-9	Chrysene	2.2	J	0.42	0.82	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.1	J	0.21	0.82	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.3	J	0.39	0.82	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	2	J	0.36	0.82	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.1	J	0.86	0.82	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2	J	0.89	0.82	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.9	J	0.98	0.82	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.402		15-120		50	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.46		30-130		115	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.375		20-140		94	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	13627		7.692			
1146-65-2	Naphthalene-d8	43376		10.475			
15067-26-2	Acenaphthene-d10	22721		14.327			

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT2-2024-04	SDG No.:	BN051824
Lab Sample ID:	P2409-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BN031559.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	49574	17.075				
1719-03-5	Chrysene-d12	33285	21.261				
1520-96-3	Perylene-d12	31486	23.497				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK912	SDG No.:	BN051824
Lab Sample ID:	PB160912BL	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
BN031560.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.1	U	1.1	0	6.7	ug/Kg
91-20-3	Naphthalene	0.37	U	0.37	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.85	U	0.85	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.34	U	0.34	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.47	U	0.47	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.39	U	0.39	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.68	U	0.68	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	1.4	U	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.51	U	0.51	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.52	U	0.52	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.68	U	0.68	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.42	U	0.42	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.42	U	0.42	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.21	U	0.21	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.39	U	0.39	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.36	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.86	U	0.86	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.89	U	0.89	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.98	U	0.98	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.576		15-120		72	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.386		30-130		97	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.295		20-140		74	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	13293		7.696			
1146-65-2	Naphthalene-d8	42107		10.475			
15067-26-2	Acenaphthene-d10	21705		14.332			

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK912	SDG No.:	BN051824
Lab Sample ID:	PB160912BL	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
BN031560.D	1	5/14/2024 12:00:00 AM	5/17/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	47147	17.075				
1719-03-5	Chrysene-d12	28778	21.261				
1520-96-3	Perylene-d12	24829	23.494				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN051824

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT2-2024-04							
P2409-02	MDL-WATER-QT2-2024 Water	Total Alkanes	*	0.000	0.031	0.2	ug/L
		Total Tics :			0.00		
P2409-02	MDL-WATER-QT2-2024 Water	1,4-Dioxane		0.090 J	0.031	0.2	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	1-Methylnaphthalene		0.070 J	0.024	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	2-Methylnaphthalene		0.070 J	0.011	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Acenaphthene		0.070 J	0.013	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Acenaphthylene		0.070 J	0.014	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Anthracene		0.060 J	0.011	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(a)anthracene		0.060 J	0.015	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(a)pyrene		0.060 J	0.012	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(b)fluoranthene		0.060 J	0.004	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(g,h,i)perylene		0.060 J	0.025	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(k)fluoranthene		0.070 J	0.019	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Chrysene		0.070 J	0.014	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Dibenzo(a,h)anthracene		0.060 J	0.026	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Fluoranthene		0.080 J	0.022	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Fluorene		0.070 J	0.022	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Indeno(1,2,3-cd)pyrene		0.060 J	0.023	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Naphthalene		0.070 J	0.011	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Pentachlorophenol		0.060 J	0.041	0.2	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Phenanthrene		0.070 J	0.014	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Pyrene		0.080 J	0.016	0.1	ug/L
		Total Svoc :			1.36		
		Total Concentration:			1.36		
Client ID : MDL-SOIL-QT2-2024-04							
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Total Alkanes	*	0.000	1.1	6.7	ug/Kg
		Total Tics :			0.00		
P2409-04	MDL-SOIL-QT2-2024-04 Solid	1,4-Dioxane		2.900 J	1.1	6.7	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	1-Methylnaphthalene		2.200 J	0.85	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	2-Methylnaphthalene		2.300 J	0.34	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Acenaphthene		2.300 J	0.39	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Acenaphthylene		2.300 J	0.47	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Anthracene		2.100 J	0.52	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Benzo(a)anthracene		2.000 J	0.42	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Benzo(a)pyrene		2.000 J	0.36	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Benzo(b)fluoranthene		2.100 J	0.21	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-04 Solid	Benzo(g,h,i)perylene		1.900 J	0.98	3.3	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN051824

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Benzo(k)fluoranthene	2.300	J	0.39	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Chrysene	2.200	J	0.42	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Dibenzo(a,h)anthracene	2.000	J	0.89	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Fluoranthene	2.700	J	0.68	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Fluorene	2.300	J	0.68	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Indeno(1,2,3-cd)pyrene	2.100	J	0.86	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Naphthalene	2.300	J	0.37	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Pentachlorophenol	2.300	J	1.4	6.7	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Phenanthrene	2.200	J	0.51	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Pyrene	2.600	J	0.52	3.3	ug/Kg
Total Svoc :				45.10				
Total Concentration:				45.10				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN051624 SAS No.: BN051624 SDG No.: BN051624
Instrument ID: _____ Calibration Date(s): 5/15/2024 : _____
Calibration Time(s): 09:28 _____

LAB FILE ID:		RRFAL1 = BN031529.D			RRFAL2 = BN031530.D		RRFAL3 = BN031531.D	
		RRFAL4 = BN031532.D			RRFAL5 = BN031533.D		RRFAL6 = BN031534.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.563	0.452	0.510	0.496	0.488	0.502	8.1
1,4-Dioxane-d8		0.529	0.451	0.490	0.473	0.466	0.482	6.2
Naphthalene	1.103	1.093	1.004	1.095	1.054		1.070	3.9
1-Methylnaphthalene	0.746	0.731	0.668	0.725	0.701		0.714	4.3
2-Methylnaphthalene	0.701	0.685	0.633	0.689	0.670		0.676	3.9
Acenaphthylene	1.815	1.827	1.691	1.880	1.868		1.816	4.1
Acenaphthene	1.397	1.402	1.285	1.426	1.401		1.382	4.0
Fluorene	1.519	1.534	1.416	1.603	1.596		1.534	4.9
Pentachlorophenol		0.055	0.056	0.064	0.067	0.071	0.062	11.0
Phenanthrene	1.193	1.178	1.078	1.214	1.189		1.171	4.6
Anthracene	0.959	0.974	0.905	1.051	1.054		0.989	6.5
Fluoranthene	1.359	1.576	1.398	1.600	1.503		1.487	7.2
Pyrene	1.399	1.578	1.374	1.554	1.455		1.472	6.2
Benzo(a)anthracene	1.559	1.345	1.207	1.415	1.397		1.384	9.2
Chrysene	1.571	1.551	1.365	1.520	1.468		1.495	5.5
Benzo(b)fluoranthene	1.416	1.421	1.308	1.599	1.619		1.473	9.0
Benzo(k)fluoranthene	1.501	1.561	1.445	1.742	1.723		1.594	8.3
Benzo(a)pyrene	1.382	1.234	1.122	1.333	1.381		1.290	8.6
Indeno(1,2,3-cd)pyrene	1.431	1.438	1.404	1.529	1.695		1.500	7.9
Dibenzo(a,h)anthracene	1.114	1.133	1.109	1.220	1.368		1.189	9.2
Benzo(g,h,i)perylene	1.077	1.192	1.149	1.230	1.380		1.206	9.4
Fluoranthene-d10	1.045	1.199	1.041	1.171	1.092		1.110	6.5
2-Methylnaphthalene-d10	0.596	0.582	0.529	0.572	0.554		0.567	4.6

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.: BN051824 SAS No.: BN051824 SDG NO.: BN051824

EPA Sample No.: SSTD0.4218 Date Analyzed: May 17 2024 12:00AM

Lab File ID: BN031531.D Time Analyzed: 09:07

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	11627	7.7	36377	10.48	19119	14.34
UPPER LIMIT	23254	8.2	72754	10.98	38238	14.835
LOWER LIMIT	5813.5	7.2	18188.5	9.98	9559.5	13.835
EPA SAMPLE NO.						
01 SBLK909	15156	7.70	47841	10.48	24586	14.33
02 MDL-WATER-QT2-2024-04	13508	7.70	42506	10.48	21681	14.33
03 MDL-SOIL-QT2-2024-04	13627	7.69	43376	10.48	22721	14.33
04 SBLK912	13293	7.70	42107	10.48	21705	14.33

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.: BN051824 SAS No.: BN051824 SDG NO.: BN051824

EPA Sample No.: SSTD0.4377 Date Analyzed: May 17 2024 12:00AM

Lab File ID: BN031556.D Time Analyzed: 09:07

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	14770	7.696	46371	10.48	23646	14.33
UPPER LIMIT	29540	8.196	92742	10.975	47292	14.832
LOWER LIMIT	7385	7.196	23185.5	9.975	11823	13.832
EPA SAMPLE NO.						
01 SBLK909	15156	7.70	47841	10.48	24586	14.33
02 MDL-WATER-QT2-2024-04	13508	7.70	42506	10.48	21681	14.33
03 MDL-SOIL-QT2-2024-04	13627	7.69	43376	10.48	22721	14.33
04 SBLK912	13293	7.70	42107	10.48	21705	14.33

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.: BN051824 SAS No.: BN051824 SDG NO.: BN051824

EPA Sample No.: SSTD0.4218 Date Analyzed: May 17 2024 12:00AM

Lab File ID: BN031531.D Time Analyzed: 09:07

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	42115	17.078	34832	21.266	31458	23.502
UPPER LIMIT	84230	17.578	69664	21.766	62916	24.002
LOWER LIMIT	21057.5	16.578	17416	20.766	15729	23.002
EPA SAMPLE NO.						
01 SBLK909	54120	17.08	36730	21.26	35152	23.49
02 MDL-WATER-QT2-2024-04	47732	17.07	31534	21.26	28500	23.49
03 MDL-SOIL-QT2-2024-04	49574	17.08	33285	21.26	31486	23.50
04 SBLK912	47147	17.08	28778	21.26	24829	23.49

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.: BN051824 SAS No.: BN051824 SDG NO.: BN051824

EPA Sample No.: SSTD0.4377 Date Analyzed: May 17 2024 12:00AM

Lab File ID: BN031556.D Time Analyzed: 09:07

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	50975	17.075	38600	21.261	31204	23.491
UPPER LIMIT	101950	17.575	77200	21.761	62408	23.991
LOWER LIMIT	25487.5	16.575	19300	20.761	15602	22.991
EPA SAMPLE NO.						
01 SBLK909	54120	17.08	36730	21.26	35152	23.49
02 MDL-WATER-QT2-2024-04	47732	17.07	31534	21.26	28500	23.49
03 MDL-SOIL-QT2-2024-04	49574	17.08	33285	21.26	31486	23.50
04 SBLK912	47147	17.08	28778	21.26	24829	23.49

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.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK909

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN051824

SAS No.: BN051824 SDG NO.: BN051824

Lab File ID: BN031557.D

Lab Sample ID: PB160909BL

Instrument ID: BNA_N

Date Extracted: 05/14/2024

Matrix: (soil/water) Water

Date Analyzed: 05/17/2024

Level: (low/med) LOW

Time Analyzed: 09:07

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT2-2024-04	P2409-02	BN031558.D	05/17/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK912

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN051824

SAS No.: BN051824 SDG NO.: BN051824

Lab File ID: BN031560.D

Lab Sample ID: PB160912BL

Instrument ID: BNA_N

Date Extracted: 05/14/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/17/2024

Level: (low/med) LOW

Time Analyzed: 12:54

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT2-2024-04	P2409-04	BN031559.D	05/17/2024

COMMENTS: _____



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

Surrogate Summary

SW-846

SDG No.: BN051824

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P2409-02	MDL-WATER-QT2BN031558.D		1,4-Dioxane-d8	0.8	0.40	50		15	120
			Fluoranthene-d10	0.4	0.47	117		30	130
			2-Methylnaphthalene-d10	0.4	0.37	93		30	130
PB160909BL	PB160909BL	BN031557.D	1,4-Dioxane-d8	0.8	0.58	73		15	120
			Fluoranthene-d10	0.4	0.35	87		30	130
			2-Methylnaphthalene-d10	0.4	0.29	72		30	130



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

Surrogate Summary

SW-846

SDG No.: BN051824

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P2409-04	MDL-SOIL-QT2-2(BN031559.D		1,4-Dioxane-d8	0.8	0.40	50		15	120
			Fluoranthene-d10	0.4	0.46	115		30	130
			2-Methylnaphthalene-d10	0.4	0.38	94		20	140
PB160912BL	PB160912BL	BN031560.D	1,4-Dioxane-d8	0.8	0.58	72		15	120
			Fluoranthene-d10	0.4	0.39	97		30	130
			2-Methylnaphthalene-d10	0.4	0.30	74		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN051824

Lab Code: CHEM

SAS No.: BN051824

SDG NO.: BN051824

Lab File ID: BN031555.D

DFTPP Injection Date: 05/17/2024

Instrument ID: BNA_N

DFTPP Injection Time: 07:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	45.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	53.7
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	7.9
442	Greater than 50% of mass 198	51.1
443	15.0 - 24.0% of mass 442	10 (19.6) 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
SSTD0.4377	SSTDCCC0.4	BN031556.D	05/17/2024	08:31
SBLK909	PB160909BL	BN031557.D	05/17/2024	09:07
MDL-WATER-QT2-2024-04	P2409-02	BN031558.D	05/17/2024	09:46
MDL-SOIL-QT2-2024-04	P2409-04	BN031559.D	05/17/2024	12:17
SBLK912	PB160912BL	BN031560.D	05/17/2024	12:54
SSTD0.4378	SSTDCCC0.4EC	BN031561.D	05/17/2024	13:31