

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF110624 SAS No.: BF110624 SDG No.: BF110624

Instrument ID: BNA_F Calibration Date/Time: 11/6/2024 1:12:42

Lab File ID: BF140253.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.782	0.723		-7.545	
Pyridine	1.354	1.348		-0.443	
2-Fluorophenol	1.207	1.152		-4.557	
Benzaldehyde	0.956	0.871		-8.891	
Aniline	1.402	1.366		-2.568	
Phenol-d6	1.552	1.478		-4.768	
Phenol	1.649	1.586		-3.82	20.0
bis(2-Chloroethyl) ether	1.252	1.219		-2.636	
2-Chlorophenol	1.263	1.233		-2.375	
1,2-Dichlorobenzene	1.394	1.348		-3.3	
1,3-Dichlorobenzene	1.480	1.431		-3.311	
1,4-Dichlorobenzene	1.492	1.445		-3.15	20.0
Benzyl Alcohol	1.197	1.142		-4.595	
2-Methylphenol	1.053	1.010		-4.084	
2,2-oxybis(1-Chloropropane)	2.027	1.898		-6.364	
Acetophenone	0.496	0.461		-7.056	
3+4-Methylphenols	1.323	1.280		-3.25	
n-Nitroso-di-n-propylamine	0.990	0.924	0.050	-6.667	
Nitrobenzene-d5	0.402	0.372		-7.463	
Hexachloroethane	0.556	0.544		-2.158	
Nitrobenzene	0.422	0.392		-7.109	
Isophorone	0.693	0.639		-7.792	
2-Nitrophenol	0.168	0.161		-4.167	20.0
2,4-Dimethylphenol	0.228	0.218		-4.386	
bis(2-Chloroethoxy) methane	0.415	0.389		-6.265	
2,4-Dichlorophenol	0.283	0.272		-3.887	20.0
1,2,4-Trichlorobenzene	0.339	0.323		-4.72	
Benzoic acid	0.187	0.174		-6.952	
Naphthalene	1.033	0.968		-6.292	
4-Chloroaniline	0.340	0.327		-3.824	
Hexachlorobutadiene	0.229	0.217		-5.24	20.0
Caprolactam	0.086	0.082		-4.651	
4-Chloro-3-methylphenol	0.315	0.300		-4.762	20.0
2-Methylnaphthalene	0.674	0.635		-5.786	
Hexachlorocyclopentadiene	0.164	0.173	0.050	5.488	
2,4,6-Trichlorophenol	0.363	0.356		-1.928	20.0
2-Fluorobiphenyl	1.253	1.151		-8.067	
2,4,5-Trichlorophenol	0.381	0.367		-3.675	
1,1-Biphenyl	1.446	1.351		-6.57	

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EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.088	1.028		-5.515	
2-Nitroaniline	0.364	0.341		-6.319	
Dimethylphthalate	1.232	1.164		-5.519	
Acenaphthylene	1.540	1.450		-5.844	
2,6-Dinitrotoluene	0.290	0.282		-2.759	
3-Nitroaniline	0.273	0.261		-4.396	
Acenaphthene	1.093	1.041		-4.758	20.0
2,4-Dinitrophenol	0.120	0.113	0.050	-5.833	
4-Nitrophenol	0.192	0.190	0.050	-1.042	
Dibenzofuran	1.528	1.430		-6.414	
2,4-Dinitrotoluene	0.376	0.371		-1.33	
Diethylphthalate	1.224	1.162		-5.065	
4-Chlorophenyl-phenylether	0.613	0.582		-5.057	
Fluorene	1.216	1.128		-7.237	
4-Nitroaniline	0.271	0.265		-2.214	
4,6-Dinitro-2-methylphenol	0.105	0.102		-2.857	
n-Nitrosodiphenylamine	0.575	0.542		-5.739	20.0
Azobenzene	1.269	1.182		-6.856	
2,4,6-Tribromophenol	0.198	0.197		-0.505	
4-Bromophenyl-phenylether	0.215	0.209		-2.791	
Hexachlorobenzene	0.245	0.237		-3.265	
Atrazine	0.157	0.170		8.28	
Pentachlorophenol	0.132	0.136		3.03	20.0
Phenanthrene	0.954	0.889		-6.813	
Anthracene	0.936	0.884		-5.556	
Carbazole	0.855	0.811		-5.146	
Di-n-butylphthalate	1.012	0.980		-3.162	
Fluoranthene	0.998	0.956		-4.208	20.0
Benzidine	0.391	0.386		-1.279	
Pyrene	1.651	1.572		-4.785	
Terphenyl-d14	1.221	1.156		-5.324	
Butylbenzylphthalate	0.595	0.580		-2.521	
3,3-Dichlorobenzidine	0.403	0.385		-4.467	
Benzo(a)anthracene	1.284	1.252		-2.492	
Chrysene	1.202	1.131		-5.907	
Bis(2-ethylhexyl)phthalate	0.833	0.811		-2.641	
Di-n-octyl phthalate	1.254	1.216		-3.03	20.0
Benzo(b)fluoranthene	1.210	1.223		1.074	
Benzo(k)fluoranthene	1.110	1.020		-8.108	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF110624 SAS No.: BF110624 SDG No.: BF110624

Instrument ID: BNA_F Calibration Date/Time: 11/6/2024 12:42

Lab File ID: BF140253.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.997	0.976		-2.106	20.0
Indeno(1,2,3-cd)pyrene	1.174	1.143		-2.641	
Dibenzo(a,h)anthracene	0.966	0.924		-4.348	
Benzo(g,h,i)perylene	0.985	0.934		-5.178	
1,2,4,5-Tetrachlorobenzene	0.586	0.560		-4.437	
1,4-Dioxane	0.555	0.552		-0.541	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.320		2.236	
1-Methylnaphthalene	0.661	0.621		-6.051	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF110624 SAS No.: BF110624 SDG No.: BF110624

Instrument ID: BNA_F Calibration Date/Time: 11/6/2024 1:17:30

Lab File ID: BF140259.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): _____

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.782	0.701		-10.358	50.0
Pyridine	1.354	1.269		-6.278	50.0
2-Fluorophenol	1.207	1.144		-5.22	50.0
Benzaldehyde	0.956	0.909		-4.916	50.0
Aniline	1.402	1.342		-4.28	50.0
Phenol-d6	1.552	1.446		-6.83	50.0
Phenol	1.649	1.544		-6.367	50.0
bis(2-Chloroethyl) ether	1.252	1.188		-5.112	50.0
2-Chlorophenol	1.263	1.208		-4.355	50.0
1,2-Dichlorobenzene	1.394	1.308		-6.169	50.0
1,3-Dichlorobenzene	1.480	1.412		-4.595	50.0
1,4-Dichlorobenzene	1.492	1.418		-4.96	50.0
Benzyl Alcohol	1.197	1.131		-5.514	50.0
2-Methylphenol	1.053	1.002		-4.843	50.0
2,2-oxybis(1-Chloropropane)	2.027	1.847		-8.88	50.0
Acetophenone	0.496	0.458		-7.661	50.0
3+4-Methylphenols	1.323	1.254		-5.215	50.0
n-Nitroso-di-n-propylamine	0.990	0.905	0.050	-8.586	50.0
Nitrobenzene-d5	0.402	0.376		-6.468	50.0
Hexachloroethane	0.556	0.525		-5.576	50.0
Nitrobenzene	0.422	0.390		-7.583	50.0
Isophorone	0.693	0.642		-7.359	50.0
2-Nitrophenol	0.168	0.170		1.19	50.0
2,4-Dimethylphenol	0.228	0.223		-2.193	50.0
bis(2-Chloroethoxy) methane	0.415	0.394		-5.06	50.0
2,4-Dichlorophenol	0.283	0.277		-2.12	50.0
1,2,4-Trichlorobenzene	0.339	0.323		-4.72	50.0
Benzoic acid	0.187	0.196		4.813	50.0
Naphthalene	1.033	0.963		-6.776	50.0
4-Chloroaniline	0.340	0.325		-4.412	50.0
Hexachlorobutadiene	0.229	0.216		-5.677	50.0
Caprolactam	0.086	0.084		-2.326	50.0
4-Chloro-3-methylphenol	0.315	0.302		-4.127	50.0
2-Methylnaphthalene	0.674	0.635		-5.786	50.0
Hexachlorocyclopentadiene	0.164	0.178	0.050	8.537	50.0
2,4,6-Trichlorophenol	0.363	0.354		-2.479	50.0
2-Fluorobiphenyl	1.253	1.139		-9.026	50.0
2,4,5-Trichlorophenol	0.381	0.375		-1.575	50.0
1,1-Biphenyl	1.446	1.341		-7.261	50.0

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EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): _____

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.088	1.020		-6.25	50.0
2-Nitroaniline	0.364	0.344		-5.495	50.0
Dimethylphthalate	1.232	1.175		-4.627	50.0
Acenaphthylene	1.540	1.447		-6.039	50.0
2,6-Dinitrotoluene	0.290	0.278		-4.138	50.0
3-Nitroaniline	0.273	0.262		-4.029	50.0
Acenaphthene	1.093	1.038		-5.032	50.0
2,4-Dinitrophenol	0.120	0.126	0.050	5.0	50.0
4-Nitrophenol	0.192	0.191	0.050	-0.521	50.0
Dibenzofuran	1.528	1.436		-6.021	50.0
2,4-Dinitrotoluene	0.376	0.374		-0.532	50.0
Diethylphthalate	1.224	1.179		-3.676	50.0
4-Chlorophenyl-phenylether	0.613	0.575		-6.199	50.0
Fluorene	1.216	1.130		-7.072	50.0
4-Nitroaniline	0.271	0.259		-4.428	50.0
4,6-Dinitro-2-methylphenol	0.105	0.109		3.81	50.0
n-Nitrosodiphenylamine	0.575	0.540		-6.087	50.0
Azobenzene	1.269	1.180		-7.013	50.0
2,4,6-Tribromophenol	0.198	0.198		0.0	50.0
4-Bromophenyl-phenylether	0.215	0.211		-1.86	50.0
Hexachlorobenzene	0.245	0.237		-3.265	50.0
Atrazine	0.157	0.169		7.643	50.0
Pentachlorophenol	0.132	0.141		6.818	50.0
Phenanthrene	0.954	0.895		-6.184	50.0
Anthracene	0.936	0.881		-5.876	50.0
Carbazole	0.855	0.806		-5.731	50.0
Di-n-butylphthalate	1.012	0.987		-2.47	50.0
Fluoranthene	0.998	0.927		-7.114	50.0
Benzidine	0.391	0.476		21.739	50.0
Pyrene	1.651	1.617		-2.059	50.0
Terphenyl-d14	1.221	1.186		-2.867	50.0
Butylbenzylphthalate	0.595	0.625		5.042	50.0
3,3-Dichlorobenzidine	0.403	0.404		0.248	50.0
Benzo(a)anthracene	1.284	1.215		-5.374	50.0
Chrysene	1.202	1.127		-6.24	50.0
Bis(2-ethylhexyl)phthalate	0.833	0.839		0.72	50.0
Di-n-octyl phthalate	1.254	1.269		1.196	50.0
Benzo(b)fluoranthene	1.210	1.228		1.488	50.0
Benzo(k)fluoranthene	1.110	0.972		-12.432	50.0

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GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.997	0.963		-3.41	50.0
Indeno(1,2,3-cd)pyrene	1.174	1.144		-2.555	50.0
Dibenzo(a,h)anthracene	0.966	0.925		-4.244	50.0
Benzo(g,h,i)perylene	0.985	0.956		-2.944	50.0
1,2,4,5-Tetrachlorobenzene	0.586	0.561		-4.266	50.0
1,4-Dioxane	0.555	0.507		-8.649	50.0
2,3,4,6-Tetrachlorophenol	0.313	0.316		0.958	50.0
1-Methylnaphthalene	0.661	0.621		-6.051	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	10/24/2024 12:00:00 AM
Project:		Date Received:	10/24/2024 12:00:00 AM
Client Sample ID:	PB164366BL	SDG No.:	BF110624
Lab Sample ID:	PB164366BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g
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
BF140254.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	270	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	130	170	ug/Kg
108-95-2	Phenol	82.9	U	82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86	U	86	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	130	170	ug/Kg
100-51-6	Benzyl Alcohol	83	U	83	270	330	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	130	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	83	U	83	130	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	130	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	10/24/2024 12:00:00 AM
Project:		Date Received:	10/24/2024 12:00:00 AM
Client Sample ID:	PB164366BL	SDG No.:	BF110624
Lab Sample ID:	PB164366BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 Units: g	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
BF140254.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.8	U	86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74	U	74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	95	U	95	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	86.5	U	86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	130	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	130	170	ug/Kg
Total PAH	Total PAH	1325.1	U	1325.1	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	169.4	U	169.4	130	340	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	130	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	130	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	130	170	ug/Kg
103-33-3	Azobenzene	79.6	U	79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	85	U	85	130	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	10/24/2024 12:00:00 AM
Project:		Date Received:	10/24/2024 12:00:00 AM
Client Sample ID:	PB164366BL	SDG No.:	BF110624
Lab Sample ID:	PB164366BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g
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
BF140254.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.3	U	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	84	U	84	130	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	130	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	130	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	83	U	83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	130	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91	U	91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	93	U	93	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	130	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.2	U	83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	124.52		18-112		83	SPK: -150
13127-88-3	Phenol-d6	120.075		15-107		80	SPK: -150
4165-60-0	Nitrobenzene-d5	84.196		18-107		84	SPK: -100
321-60-8	2-Fluorobiphenyl	83.665		20-109		84	SPK: -100

Report of Analysis

Client:		Date Collected:	10/24/2024 12:00:00 AM
Project:		Date Received:	10/24/2024 12:00:00 AM
Client Sample ID:	PB164366BL	SDG No.:	BF110624
Lab Sample ID:	PB164366BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 Units: g	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
BF140254.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	130.572		10-116		87	SPK: -150
1718-51-0	Terphenyl-d14	91.948		10-105		92	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	194346	6.875				
1146-65-2	Naphthalene-d8	748217	8.151				
15067-26-2	Acenaphthene-d10	449315	9.91				
1517-22-2	Phenanthrene-d10	819195	11.404				
1719-03-5	Chrysene-d12	509272	14.063				
1520-96-3	Perylene-d12	417555	15.58				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J			2.281	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	A			5.134	

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-SOIL-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-02	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g
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
BF140255.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	310	J	86.7	270	330	ug/Kg
110-86-1	Pyridine	320		79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	420		180	270	330	ug/Kg
62-53-3	Aniline	440		96.8	130	170	ug/Kg
108-95-2	Phenol	350		82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	360		83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	370		83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	350		84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	350		85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	350		86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	390		82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	350		80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	360		90.8	130	170	ug/Kg
98-86-2	Acetophenone	360		86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	360		79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	350		40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	330		82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	330		90.7	130	170	ug/Kg
78-59-1	Isophorone	350		84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	340		94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	350		93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	350		85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	360		75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	350		85.3	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	350		82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	330		83.2	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-SOIL-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-02	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BF140255.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	340		86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	350		77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	360		82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	370		160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	330		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	320		74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	360		87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	340		83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	320		94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	350		81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	380		86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	320		83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	350		89.1	130	170	ug/Kg
83-32-9	Acenaphthene	330		81	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	310	J	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	280	J	120	270	330	ug/Kg
132-64-9	Dibenzofuran	360		84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	320		86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	340		80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	340		85.5	130	170	ug/Kg
86-73-7	Fluorene	350		85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	330		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	220	J	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	360		81.5	130	170	ug/Kg
103-33-3	Azobenzene	340		79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	350		78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	340		84.9	130	170	ug/Kg
1912-24-9	Atrazine	450		91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	250	J	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	360		83.9	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-SOIL-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-02	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BF140255.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
120-12-7	Anthracene	380		84.3	130	170	ug/Kg
86-74-8	Carbazole	350		80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	350		84.2	130	170	ug/Kg
206-44-0	Fluoranthene	350		81.6	130	170	ug/Kg
92-87-5	Benzidine	390		160	270	330	ug/Kg
129-00-0	Pyrene	350		82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	340		96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	320	J	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	350		80.6	130	170	ug/Kg
218-01-9	Chrysene	350		79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	350		90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	320	J	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	340		81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	340		82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	340		92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	300		78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	300		81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	280		80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	360		86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	350		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	330		74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	350		83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	110.98	*	18-112			SPK: -0
13127-88-3	Phenol-d6	110.957	*	15-107			SPK: -0
4165-60-0	Nitrobenzene-d5	79.699	*	18-107			SPK: -0
321-60-8	2-Fluorobiphenyl	77.156	*	20-109			SPK: -0
118-79-6	2,4,6-Tribromophenol	116.831	*	10-116			SPK: -0
1718-51-0	Terphenyl-d14	76.798	*	10-105			SPK: -0

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-SOIL-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-02	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	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
BF140255.D	1	10/24/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164366

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	165212	6.875				
1146-65-2	Naphthalene-d8	623318	8.157				
15067-26-2	Acenaphthene-d10	378192	9.916				
1517-22-2	Phenanthrene-d10	670348	11.404				
1719-03-5	Chrysene-d12	422007	14.062				
1520-96-3	Perylene-d12	370601	15.574				

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-WATER-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-08	Matrix:	Water
Analytical Method:	8270E	% 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
BF140256.D	1	10/23/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	9.2	J	1	8	10	ug/L
110-86-1	Pyridine	9.8		1.6	4	5	ug/L
100-52-7	Benzaldehyde	12.7		4	8	10	ug/L
62-53-3	Aniline	13.2		1.6	4	5	ug/L
108-95-2	Phenol	10.7		0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.7		1.2	4	5	ug/L
95-57-8	2-Chlorophenol	10.9		0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	10.6		0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	10.5		0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	10.5		0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	11.8		1.6	8	10	ug/L
95-48-7	2-Methylphenol	10.6		1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.9		1.4	4	5	ug/L
98-86-2	Acetophenone	10.9		1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	11.1		1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.6		1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	10.1		1	4	5	ug/L
98-95-3	Nitrobenzene	9.8		1.3	4	5	ug/L
78-59-1	Isophorone	10.4		1.1	4	5	ug/L
88-75-5	2-Nitrophenol	10.2		2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	10.3		1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.6		1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	10.4		0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.1		1.1	4	5	ug/L
65-85-0	Benzoic acid	11.8		5.5	8	10	ug/L
91-20-3	Naphthalene	10.5		1	4	5	ug/L
106-47-8	4-Chloroaniline	11.9		1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	9.7		1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-WATER-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-08	Matrix:	Water
Analytical Method:	8270E	% 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
BF140256.D	1	10/23/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	10.2		1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	10.3		0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	10.9		1.1	4	5	ug/L
77-47-4	Hexachlorocyclopentadiene	11.4		5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	10.1		0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	10.2		1	4	5	ug/L
92-52-4	1,1-Biphenyl	11		0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	10.2		0.97	4	5	ug/L
88-74-4	2-Nitroaniline	9.8		1.4	4	5	ug/L
131-11-3	Dimethylphthalate	10.6		0.93	4	5	ug/L
208-96-8	Acenaphthylene	11.6		1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	9.6		1.2	4	5	ug/L
99-09-2	3-Nitroaniline	10.7		1.4	4	5	ug/L
83-32-9	Acenaphthene	10.1		0.81	4	5	ug/L
51-28-5	2,4-Dinitrophenol	9.9	J	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	8.9	J	2	8	10	ug/L
132-64-9	Dibenzofuran	11		0.93	4	5	ug/L
121-14-2	2,4-Dinitrotoluene	10		1.5	4	5	ug/L
84-66-2	Diethylphthalate	10.4		1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.5		0.98	4	5	ug/L
86-73-7	Fluorene	10.6		0.96	4	5	ug/L
100-01-6	4-Nitroaniline	9.9		2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.4		3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	10.7		0.89	4	5	ug/L
103-33-3	Azobenzene	10.4		1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	10.6		0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	10.1		1.1	4	5	ug/L
1912-24-9	Atrazine	13.5		1.3	4	5	ug/L
87-86-5	Pentachlorophenol	7.7	J	1.9	8	10	ug/L
85-01-8	Phenanthrene	11.1		0.89	4	5	ug/L

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-WATER-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-08	Matrix:	Water
Analytical Method:	8270E	% 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
BF140256.D	1	10/23/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
120-12-7	Anthracene	11.3		1.1	4	5	ug/L
86-74-8	Carbazole	10.6		1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	10.6		1.5	4	5	ug/L
206-44-0	Fluoranthene	10.7		1.3	4	5	ug/L
92-87-5	Benzidine	12.9		4.1	8	10	ug/L
129-00-0	Pyrene	10.2		1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	9.8		2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	9.9	J	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	10.5		0.94	4	5	ug/L
218-01-9	Chrysene	10.4		0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.1		1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	9.6	J	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	9.7		1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	11.1		1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	10.4		1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	9.4		1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	9.2		1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	8.3		1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.7		1.1	4	5	ug/L
123-91-1	1,4-Dioxane	10.7		1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.3		0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	10.1		0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	111.402	*	10-139			SPK: -0
13127-88-3	Phenol-d6	110.946	*	10-134			SPK: -0
4165-60-0	Nitrobenzene-d5	79.429	*	49-133			SPK: -0
321-60-8	2-Fluorobiphenyl	78.29	*	52-132			SPK: -0
118-79-6	2,4,6-Tribromophenol	119.951	*	44-137			SPK: -0
1718-51-0	Terphenyl-d14	75.416	*	48-125			SPK: -0

Report of Analysis

Client:		Date Collected:	10/9/2024 12:00:00 AM
Project:		Date Received:	10/9/2024 12:00:00 AM
Client Sample ID:	LOQ-WATER-02-QT4-2024	SDG No.:	BF110624
Lab Sample ID:	P4368-08	Matrix:	Water
Analytical Method:	8270E	% 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
BF140256.D	1	10/23/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	165102	6.875				
1146-65-2	Naphthalene-d8	629727	8.157				
15067-26-2	Acenaphthene-d10	374146	9.916				
1517-22-2	Phenanthrene-d10	676282	11.404				
1719-03-5	Chrysene-d12	439207	14.086				
1520-96-3	Perylene-d12	374154	15.627				

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-02-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	12.4
Sample Wt/Vol:	50.04	Units:	g
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
BF140257.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	59.4	U	59.4	180	230	ug/Kg
110-86-1	Pyridine	54.7	U	54.7	89	120	ug/Kg
100-52-7	Benzaldehyde	120	U	120	180	230	ug/Kg
62-53-3	Aniline	66.3	U	66.3	89	120	ug/Kg
108-95-2	Phenol	56.7	U	56.7	89	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	57.3	U	57.3	89	120	ug/Kg
95-57-8	2-Chlorophenol	57.1	U	57.1	89	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	57.9	U	57.9	89	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	58.9	U	58.9	89	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	59.2	U	59.2	89	120	ug/Kg
100-51-6	Benzyl Alcohol	56.8	U	56.8	180	230	ug/Kg
95-48-7	2-Methylphenol	55.2	U	55.2	89	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	62.2	U	62.2	89	120	ug/Kg
98-86-2	Acetophenone	59.5	U	59.5	89	120	ug/Kg
65794-96-9	3+4-Methylphenols	54.6	U	54.6	180	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	27.6	U	27.6	54.8	54.8	ug/Kg
67-72-1	Hexachloroethane	56.8	U	56.8	89	120	ug/Kg
98-95-3	Nitrobenzene	62.1	U	62.1	89	120	ug/Kg
78-59-1	Isophorone	57.9	U	57.9	89	120	ug/Kg
88-75-5	2-Nitrophenol	64.7	U	64.7	89	120	ug/Kg
105-67-9	2,4-Dimethylphenol	63.8	U	63.8	89	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	58.7	U	58.7	89	120	ug/Kg
120-83-2	2,4-Dichlorophenol	51.7	U	51.7	89	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	58.4	U	58.4	89	120	ug/Kg
65-85-0	Benzoic acid	160	U	160	180	230	ug/Kg
91-20-3	Naphthalene	56.5	U	56.5	89	120	ug/Kg
106-47-8	4-Chloroaniline	56.5	U	56.5	89	120	ug/Kg
87-68-3	Hexachlorobutadiene	57	U	57	89	120	ug/Kg

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-02-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	12.4
Sample Wt/Vol:	50.04	Units:	g
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
BF140257.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	59.4	U	59.4	180	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	53	U	53	89	120	ug/Kg
91-57-6	2-Methylnaphthalene	56.5	U	56.5	89	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	110	U	110	180	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	48.9	U	48.9	89	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	50.6	U	50.6	89	120	ug/Kg
92-52-4	1,1-Biphenyl	59.8	U	59.8	89	120	ug/Kg
91-58-7	2-Chloronaphthalene	57	U	57	89	120	ug/Kg
88-74-4	2-Nitroaniline	65	U	65	89	120	ug/Kg
131-11-3	Dimethylphthalate	55.9	U	55.9	89	120	ug/Kg
208-96-8	Acenaphthylene	59.2	U	59.2	89	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	56.9	U	56.9	89	120	ug/Kg
99-09-2	3-Nitroaniline	61	U	61	89	120	ug/Kg
83-32-9	Acenaphthene	55.5	U	55.5	89	120	ug/Kg
Total PAH	Total PAH	906.8	U	906.8	89	1920	ug/Kg
51-28-5	2,4-Dinitrophenol	170	U	170	180	230	ug/Kg
100-02-7	4-Nitrophenol	79.4	U	79.4	180	230	ug/Kg
132-64-9	Dibenzofuran	57.8	U	57.8	89	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	59	U	59	89	120	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	15.9	U	115.9	89	240	ug/Kg
84-66-2	Diethylphthalate	54.8	U	54.8	89	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	58.6	U	58.6	89	120	ug/Kg
86-73-7	Fluorene	58.5	U	58.5	89	120	ug/Kg
100-01-6	4-Nitroaniline	73.2	U	73.2	89	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	80.1	U	80.1	180	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	55.8	U	55.8	89	120	ug/Kg
103-33-3	Azobenzene	54.5	U	54.5	89	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	54	U	54	89	120	ug/Kg
118-74-1	Hexachlorobenzene	58.2	U	58.2	89	120	ug/Kg
1912-24-9	Atrazine	62.6	U	62.6	89	120	ug/Kg

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-02-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	12.4
Sample Wt/Vol:	50.04	Units:	g
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
BF140257.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	52.9	U	52.9	180	230	ug/Kg
85-01-8	Phenanthrene	57.5	U	57.5	89	120	ug/Kg
120-12-7	Anthracene	57.8	U	57.8	89	120	ug/Kg
86-74-8	Carbazole	55	U	55	89	120	ug/Kg
84-74-2	Di-n-butylphthalate	57.7	U	57.7	89	120	ug/Kg
206-44-0	Fluoranthene	55.9	U	55.9	89	120	ug/Kg
92-87-5	Benzidine	110	U	110	180	230	ug/Kg
129-00-0	Pyrene	56.8	U	56.8	89	120	ug/Kg
85-68-7	Butylbenzylphthalate	66.2	U	66.2	89	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	67.5	U	67.5	180	230	ug/Kg
56-55-3	Benzo(a)anthracene	55.2	U	55.2	89	120	ug/Kg
218-01-9	Chrysene	54.4	U	54.4	89	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	62.3	U	62.3	89	120	ug/Kg
117-84-0	Di-n-octyl phthalate	75.3	U	75.3	180	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	55.5	U	55.5	89	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	56.5	U	56.5	89	120	ug/Kg
50-32-8	Benzo(a)pyrene	63.6	U	63.6	89	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	53.5	U	53.5	89	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	55.6	U	55.6	89	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	54.8	U	54.8	89	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	59.4	U	59.4	89	120	ug/Kg
123-91-1	1,4-Dioxane	75.3	U	75.3	89	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	51.1	U	51.1	89	120	ug/Kg
90-12-0	1-Methylnaphthalene	56.9	U	56.9	120	120	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	71.636		18-112		48	SPK: -150
13127-88-3	Phenol-d6	70.406		15-107		47	SPK: -150
4165-60-0	Nitrobenzene-d5	50.953		18-107		51	SPK: -100
321-60-8	2-Fluorobiphenyl	55.953		20-109		56	SPK: -100

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-02-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	12.4
Sample Wt/Vol:	50.04	Units:	g
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
BF140257.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	60.235		10-116		40	SPK: -150
1718-51-0	Terphenyl-d14	42.558		10-105		43	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	147900	6.875				
1146-65-2	Naphthalene-d8	535760	8.157				
15067-26-2	Acenaphthene-d10	278758	9.916				
1517-22-2	Phenanthrene-d10	386308	11.404				
1719-03-5	Chrysene-d12	294782	14.051				
1520-96-3	Perylene-d12	223360	15.539				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J			2.134	
004744-10-9	Propane, 1,1-dimethoxy-	95.1	J			2.24	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	260	A			5.087	
000629-50-5	Tridecane	55.2	J			8.745	
000629-59-4	Tetradecane	120	J			9.31	
192823-15-7	Decane, 2,3,5,8-tetramethyl-	72.5	J			9.628	
000629-62-9	Pentadecane	160	J			9.839	
000544-76-3	Hexadecane	220	J			10.345	
003892-00-0	Pentadecane, 2,6,10-trimethyl-	130	J			10.563	
000119-61-9	Benzophenone	110	J			10.628	
000629-78-7	Heptadecane	500	J			10.822	
013287-23-5	Heptadecane, 8-methyl-	340	J			11.269	
1000432-25-9	3-Ethyl-2,6,10-trimethylundecane	150	J			11.298	
000629-92-5	Nonadecane	260	J			11.692	
000057-10-3	n-Hexadecanoic acid	190	J			11.928	
000112-95-8	Eicosane	210	J			12.104	
000629-94-7	Heneicosane	160	J			12.492	
000057-11-4	Octadecanoic acid	170	J			12.716	
000593-45-3	Octadecane	140	J			12.863	

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-02-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	12.4
Sample Wt/Vol:	50.04	Units:	g
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
BF140257.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
021164-95-4	Hexadecane, 7,9-dimethyl-	88.7	J			13.222	

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-03-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	7.5
Sample Wt/Vol:	50.09	Units:	g
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
BF140258.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	56.2	U	56.2	170	210	ug/Kg
110-86-1	Pyridine	51.7	U	51.7	84.2	110	ug/Kg
100-52-7	Benzaldehyde	120	U	120	170	210	ug/Kg
62-53-3	Aniline	62.7	U	62.7	84.2	110	ug/Kg
108-95-2	Phenol	53.7	U	53.7	84.2	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	54.2	U	54.2	84.2	110	ug/Kg
95-57-8	2-Chlorophenol	54.1	U	54.1	84.2	110	ug/Kg
95-50-1	1,2-Dichlorobenzene	54.8	U	54.8	84.2	110	ug/Kg
541-73-1	1,3-Dichlorobenzene	55.7	U	55.7	84.2	110	ug/Kg
106-46-7	1,4-Dichlorobenzene	56	U	56	84.2	110	ug/Kg
100-51-6	Benzyl Alcohol	53.7	U	53.7	170	210	ug/Kg
95-48-7	2-Methylphenol	52.2	U	52.2	84.2	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	58.9	U	58.9	84.2	110	ug/Kg
98-86-2	Acetophenone	56.3	U	56.3	84.2	110	ug/Kg
65794-96-9	3+4-Methylphenols	51.7	U	51.7	170	210	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	26.1	U	26.1	51.8	51.8	ug/Kg
67-72-1	Hexachloroethane	53.7	U	53.7	84.2	110	ug/Kg
98-95-3	Nitrobenzene	58.8	U	58.8	84.2	110	ug/Kg
78-59-1	Isophorone	54.8	U	54.8	84.2	110	ug/Kg
88-75-5	2-Nitrophenol	61.2	U	61.2	84.2	110	ug/Kg
105-67-9	2,4-Dimethylphenol	60.3	U	60.3	84.2	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	55.6	U	55.6	84.2	110	ug/Kg
120-83-2	2,4-Dichlorophenol	48.9	U	48.9	84.2	110	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	55.3	U	55.3	84.2	110	ug/Kg
65-85-0	Benzoic acid	150	U	150	170	210	ug/Kg
91-20-3	Naphthalene	53.5	U	53.5	84.2	110	ug/Kg
106-47-8	4-Chloroaniline	53.5	U	53.5	84.2	110	ug/Kg
87-68-3	Hexachlorobutadiene	53.9	U	53.9	84.2	110	ug/Kg

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-03-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	7.5
Sample Wt/Vol:	50.09	Units:	g
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
BF140258.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	56.2	U	56.2	170	210	ug/Kg
59-50-7	4-Chloro-3-methylphenol	50.2	U	50.2	84.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	53.4	U	53.4	84.2	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	100	U	100	170	210	ug/Kg
88-06-2	2,4,6-Trichlorophenol	46.2	U	46.2	84.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	47.9	U	47.9	84.2	110	ug/Kg
92-52-4	1,1-Biphenyl	56.6	U	56.6	84.2	110	ug/Kg
91-58-7	2-Chloronaphthalene	53.9	U	53.9	84.2	110	ug/Kg
88-74-4	2-Nitroaniline	61.5	U	61.5	84.2	110	ug/Kg
131-11-3	Dimethylphthalate	52.9	U	52.9	84.2	110	ug/Kg
208-96-8	Acenaphthylene	56	U	56	84.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	53.9	U	53.9	84.2	110	ug/Kg
99-09-2	3-Nitroaniline	57.8	U	57.8	84.2	110	ug/Kg
83-32-9	Acenaphthene	52.5	U	52.5	84.2	110	ug/Kg
Total PAH	Total PAH	858.1	U	858.1	84.2	1760	ug/Kg
51-28-5	2,4-Dinitrophenol	160	U	160	170	210	ug/Kg
100-02-7	4-Nitrophenol	75.1	U	75.1	170	210	ug/Kg
132-64-9	Dibenzofuran	54.6	U	54.6	84.2	110	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	109.7	U	109.7	84.2	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.8	U	55.8	84.2	110	ug/Kg
84-66-2	Diethylphthalate	51.9	U	51.9	84.2	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	55.4	U	55.4	84.2	110	ug/Kg
86-73-7	Fluorene	55.4	U	55.4	84.2	110	ug/Kg
100-01-6	4-Nitroaniline	69.3	U	69.3	84.2	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	75.8	U	75.8	170	210	ug/Kg
86-30-6	n-Nitrosodiphenylamine	52.8	U	52.8	84.2	110	ug/Kg
103-33-3	Azobenzene	51.5	U	51.5	84.2	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	51.1	U	51.1	84.2	110	ug/Kg
118-74-1	Hexachlorobenzene	55	U	55	84.2	110	ug/Kg
1912-24-9	Atrazine	59.2	U	59.2	84.2	110	ug/Kg

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-03-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	7.5
Sample Wt/Vol:	50.09	Units:	g
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
BF140258.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	50.1	U	50.1	170	210	ug/Kg
85-01-8	Phenanthrene	54.4	U	54.4	84.2	110	ug/Kg
120-12-7	Anthracene	54.6	U	54.6	84.2	110	ug/Kg
86-74-8	Carbazole	52	U	52	84.2	110	ug/Kg
84-74-2	Di-n-butylphthalate	54.6	U	54.6	84.2	110	ug/Kg
206-44-0	Fluoranthene	100	J	52.9	84.2	110	ug/Kg
92-87-5	Benzidine	110	U	110	170	210	ug/Kg
129-00-0	Pyrene	89	J	53.7	84.2	110	ug/Kg
85-68-7	Butylbenzylphthalate	62.7	U	62.7	84.2	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	63.8	U	63.8	170	210	ug/Kg
56-55-3	Benzo(a)anthracene	70.2	J	52.3	84.2	110	ug/Kg
218-01-9	Chrysene	60.6	J	51.5	84.2	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	58.9	U	58.9	84.2	110	ug/Kg
117-84-0	Di-n-octyl phthalate	71.2	U	71.2	170	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.8	J	52.5	84.2	110	ug/Kg
207-08-9	Benzo(k)fluoranthene	53.5	U	53.5	84.2	110	ug/Kg
50-32-8	Benzo(a)pyrene	73.3	J	60.2	84.2	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	50.6	U	50.6	84.2	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	52.6	U	52.6	84.2	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	51.9	U	51.9	84.2	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	56.2	U	56.2	84.2	110	ug/Kg
123-91-1	1,4-Dioxane	71.2	U	71.2	84.2	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	48.4	U	48.4	84.2	110	ug/Kg
90-12-0	1-Methylnaphthalene	53.9	U	53.9	110	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	93.192		18-112		62	SPK: -150
13127-88-3	Phenol-d6	92.066		15-107		61	SPK: -150
4165-60-0	Nitrobenzene-d5	65.119		18-107		65	SPK: -100
321-60-8	2-Fluorobiphenyl	73.516		20-109		74	SPK: -100

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-03-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	7.5
Sample Wt/Vol:	50.09	Units:	g
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
BF140258.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	83.311		10-116		56	SPK: -150
1718-51-0	Terphenyl-d14	62.508		10-105		63	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	139386	6.875				
1146-65-2	Naphthalene-d8	507748	8.157				
15067-26-2	Acenaphthene-d10	253554	9.916				
1517-22-2	Phenanthrene-d10	353354	11.404				
1719-03-5	Chrysene-d12	254542	14.051				
1520-96-3	Perylene-d12	194033	15.539				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	J			2.152	
004744-10-9	Propane, 1,1-dimethoxy-	65	J			2.257	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	A			5.093	
000629-59-4	Tetradecane	140	J			9.31	
000582-16-1	Naphthalene, 2,7-dimethyl-	79	J			9.569	
1000382-54-3	Carbonic acid, eicosyl vinyl ester	92.4	J			9.633	
000629-62-9	Pentadecane	210	J			9.845	
000544-76-3	Hexadecane	310	J			10.345	
001120-21-4	Undecane	180	J			10.563	
000119-61-9	Benzophenone	64.5	J			10.622	
000629-78-7	Heptadecane	580	J			10.822	
000593-45-3	Octadecane	430	J			11.269	
000646-31-1	Tetracosane	180	J			11.298	
000629-92-5	Nonadecane	360	J			11.698	
000057-10-3	n-Hexadecanoic acid	190	J			11.933	
000112-95-8	Eicosane	310	J			12.104	
000629-94-7	Heneicosane	270	J			12.492	
054833-23-7	Eicosane, 10-methyl-	150	J			13.222	
013475-75-7	Pentadecane, 8-hexyl-	90.2	J			13.563	

Report of Analysis

Client:		Date Collected:	11/4/2024 12:00:00 AM
Project:		Date Received:	11/4/2024 12:00:00 AM
Client Sample ID:	HR-03-110424	SDG No.:	BF110624
Lab Sample ID:	P4709-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	7.5
Sample Wt/Vol:	50.09	Units:	g
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
BF140258.D	1	11/6/2024 12:00:00 AM	11/6/2024 12:00:00 AM	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
074685-33-9	3-Eicosene, (E)-	120	J			13.898	

Hit Summary Sheet SW-846

SDG No.: BF110624

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : HR-02-110424								
P4709-01	HR-02-110424	Solid	2-Pentanone, 4-hydroxy-4-methyl *	260.000	A			
P4709-01	HR-02-110424	Solid	3-Ethyl-2,6,10-trimethylundecane *	150.000	J			
P4709-01	HR-02-110424	Solid	Benzophenone *	110.000	J			
P4709-01	HR-02-110424	Solid	Butane, 2-methoxy-2-methyl-	1,100.000	J			
P4709-01	HR-02-110424	Solid	Decane, 2,3,5,8-tetramethyl-	72.500	J			
P4709-01	HR-02-110424	Solid	Eicosane *	210.000	J			
P4709-01	HR-02-110424	Solid	Heneicosane *	160.000	J			
P4709-01	HR-02-110424	Solid	Heptadecane *	500.000	J			
P4709-01	HR-02-110424	Solid	Heptadecane, 8-methyl-	340.000	J			
P4709-01	HR-02-110424	Solid	Hexadecane *	220.000	J			
P4709-01	HR-02-110424	Solid	Hexadecane, 7,9-dimethyl-	88.700	J			
P4709-01	HR-02-110424	Solid	n-Hexadecanoic acid *	190.000	J			
P4709-01	HR-02-110424	Solid	Nonadecane *	260.000	J			
P4709-01	HR-02-110424	Solid	Octadecane *	140.000	J			
P4709-01	HR-02-110424	Solid	Octadecanoic acid *	170.000	J			
P4709-01	HR-02-110424	Solid	Pentadecane *	160.000	J			
P4709-01	HR-02-110424	Solid	Pentadecane, 2,6,10-trimethyl-	130.000	J			
P4709-01	HR-02-110424	Solid	Propane, 1,1-dimethoxy-	95.100	J			
P4709-01	HR-02-110424	Solid	Tetradecane *	120.000	J			
P4709-01	HR-02-110424	Solid	Tridecane *	55.200	J			
Total Tics :				4,531.50				
Total Concentration:				4,531.50				
Client ID : HR-03-110424								
P4709-03	HR-03-110424	Solid	2-Pentanone, 4-hydroxy-4-methyl *	280.000	A			
P4709-03	HR-03-110424	Solid	3-Eicosene, (E)- *	120.000	J			
P4709-03	HR-03-110424	Solid	Benzophenone *	64.500	J			
P4709-03	HR-03-110424	Solid	Butane, 2-methoxy-2-methyl-	1,200.000	J			
P4709-03	HR-03-110424	Solid	Carbonic acid, eicosyl vinyl ester *	92.400	J			
P4709-03	HR-03-110424	Solid	Eicosane *	310.000	J			
P4709-03	HR-03-110424	Solid	Eicosane, 10-methyl-	150.000	J			
P4709-03	HR-03-110424	Solid	Heneicosane *	270.000	J			
P4709-03	HR-03-110424	Solid	Heptadecane *	580.000	J			
P4709-03	HR-03-110424	Solid	Hexadecane *	310.000	J			
P4709-03	HR-03-110424	Solid	n-Hexadecanoic acid *	190.000	J			
P4709-03	HR-03-110424	Solid	Naphthalene, 2,7-dimethyl-	79.000	J			
P4709-03	HR-03-110424	Solid	Nonadecane *	360.000	J			
P4709-03	HR-03-110424	Solid	Octadecane *	430.000	J			

Hit Summary Sheet SW-846

SDG No.: BF110624

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4709-03	HR-03-110424	Solid	Pentadecane	*	210.000	J		
P4709-03	HR-03-110424	Solid	Pentadecane, 8-hexyl-	*	90.200	J		
P4709-03	HR-03-110424	Solid	Propane, 1,1-dimethoxy-	*	65.000	J		
P4709-03	HR-03-110424	Solid	Tetracosane	*	180.000	J		
P4709-03	HR-03-110424	Solid	Tetradecane	*	140.000	J		
P4709-03	HR-03-110424	Solid	Undecane	*	180.000	J		
Total Tics :					5,301.10			
P4709-03	HR-03-110424	Solid	Benzo(a)anthracene	70.200	J	52.3	110	ug/Kg
P4709-03	HR-03-110424	Solid	Benzo(a)pyrene	73.300	J	60.2	110	ug/Kg
P4709-03	HR-03-110424	Solid	Benzo(b)fluoranthene	99.800	J	52.5	110	ug/Kg
P4709-03	HR-03-110424	Solid	Chrysene	60.600	J	51.5	110	ug/Kg
P4709-03	HR-03-110424	Solid	Fluoranthene	100.000	J	52.9	110	ug/Kg
P4709-03	HR-03-110424	Solid	Pyrene	89.000	J	53.7	110	ug/Kg
Total Svoc :					492.90			
Total Concentration:					5,794.00			



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF110524 SAS No.: BF110524 SDG No.: BF110524
Instrument ID: _____ Calibration Date(s): 11/5/2024 : _____
Calibration Time(s): 12:26 _____

LAB FILE ID:		RRF2.5 = BF140231.D			RRF005 = BF140232.D		RRF010 = BF140233.D	
		RRF020 = BF140234.D			RRF040 = BF140235.D		RRF050 = BF140236.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.799	0.792	0.802	0.780	0.767	0.782	2.5
Pyridine		1.464	1.445	1.402	1.340	1.296	1.354	6.3
2-Fluorophenol		1.359	1.298	1.261	1.159	1.138	1.207	8.3
Benzaldehyde		1.159	1.137	1.085	0.949	0.839	0.956	18.5
Aniline		1.609	1.513	1.499	1.365	1.316	1.402	10.0
Phenol-d6		1.765	1.679	1.604	1.495	1.462	1.552	8.7
Phenol		1.863	1.779	1.752	1.593	1.575	1.649	9.2
bis(2-Chloroethyl)ether		1.417	1.354	1.285	1.209	1.201	1.252	8.6
2-Chlorophenol		1.441	1.385	1.311	1.214	1.187	1.263	9.4
1,2-Dichlorobenzene		1.622	1.553	1.494	1.309	1.291	1.394	11.5
1,3-Dichlorobenzene		1.690	1.605	1.555	1.413	1.387	1.480	9.2
1,4-Dichlorobenzene		1.720	1.636	1.551	1.423	1.393	1.492	9.8
Benzyl Alcohol		1.282	1.280	1.258	1.182	1.147	1.197	6.6
2-Methylphenol		1.155	1.105	1.086	1.028	1.005	1.053	6.1
2,2-oxybis(1-Chloropropane)		2.305	2.213	2.143	1.958	1.910	2.027	9.7
Acetophenone		0.564	0.535	0.512	0.474	0.461	0.496	8.4
3+4-Methylphenols		1.503	1.446	1.403	1.277	1.240	1.323	9.7
n-Nitroso-di-n-propylamine	1.035	1.117	1.062	1.015	0.949	0.923	0.990	8.0
Nitrobenzene-d5		0.435	0.420	0.415	0.392	0.387	0.402	5.2
Hexachloroethane		0.612	0.603	0.576	0.533	0.524	0.556	7.4
Nitrobenzene		0.452	0.442	0.436	0.414	0.407	0.422	5.0
Isophorone		0.754	0.722	0.699	0.675	0.659	0.693	5.1
2-Nitrophenol		0.160	0.167	0.170	0.171	0.167	0.168	2.5
2,4-Dimethylphenol		0.240	0.237	0.234	0.224	0.221	0.228	3.9
bis(2-Chloroethoxy)methane		0.459	0.441	0.428	0.400	0.390	0.415	6.9
2,4-Dichlorophenol		0.297	0.299	0.291	0.278	0.270	0.283	4.7
1,2,4-Trichlorobenzene		0.373	0.362	0.349	0.328	0.318	0.339	6.7
Benzoic acid			0.136	0.161	0.193	0.207	0.187	17.1
Naphthalene		1.206	1.119	1.071	0.992	0.956	1.033	9.9
4-Chloroaniline		0.372	0.367	0.354	0.330	0.322	0.340	7.1
Hexachlorobutadiene		0.251	0.241	0.238	0.222	0.218	0.229	6.2
Caprolactam		0.090	0.087	0.088	0.085	0.084	0.086	2.9
4-Chloro-3-methylphenol		0.337	0.326	0.319	0.312	0.303	0.315	4.3
2-Methylnaphthalene		0.772	0.743	0.702	0.644	0.626	0.674	9.6
Hexachlorocyclopentadiene		0.124	0.145	0.169	0.183	0.177	0.164	13.3
2,4,6-Trichlorophenol		0.377	0.369	0.363	0.361	0.354	0.363	2.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF110524 SAS No.: BF110524 SDG No.: BF110524
Instrument ID: _____ Calibration Date(s): 11/5/2024 : _____
Calibration Time(s): 12:26 _____

LAB FILE ID:		RRF2.5 = BF140231.D			RRF005 = BF140232.D		RRF010 = BF140233.D	
		RRF020 = BF140234.D			RRF040 = BF140235.D		RRF050 = BF140236.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.481	1.381	1.312	1.183	1.148	1.253	11.3
2,4,5-Trichlorophenol		0.391	0.398	0.396	0.373	0.374	0.381	4.0
1,1-Biphenyl		1.663	1.590	1.521	1.376	1.342	1.446	10.0
2-Chloronaphthalene		1.195	1.171	1.135	1.050	1.036	1.088	7.2
2-Nitroaniline		0.357	0.372	0.371	0.369	0.363	0.364	2.0
Dimethylphthalate		1.363	1.310	1.262	1.191	1.182	1.232	6.7
Acenaphthylene		1.730	1.668	1.618	1.486	1.465	1.540	8.6
2,6-Dinitrotoluene		0.302	0.297	0.299	0.286	0.286	0.290	3.6
3-Nitroaniline		0.294	0.286	0.282	0.269	0.267	0.273	5.8
Acenaphthene		1.204	1.153	1.134	1.059	1.055	1.093	6.6
2,4-Dinitrophenol			0.071	0.101	0.128	0.135	0.120	23.2
4-Nitrophenol		0.160	0.178	0.196	0.203	0.206	0.192	8.8
Dibenzofuran		1.773	1.683	1.603	1.467	1.424	1.528	10.6
2,4-Dinitrotoluene		0.384	0.385	0.388	0.374	0.373	0.376	3.2
Diethylphthalate		1.360	1.319	1.271	1.185	1.170	1.224	7.7
4-Chlorophenyl-phenylether		0.715	0.673	0.638	0.581	0.573	0.613	10.3
Fluorene		1.446	1.345	1.267	1.154	1.127	1.216	11.6
4-Nitroaniline		0.278	0.276	0.282	0.270	0.267	0.271	3.5
4,6-Dinitro-2-methylphenol			0.080	0.100	0.110	0.112	0.105	12.6
n-Nitrosodiphenylamine		0.646	0.608	0.600	0.551	0.543	0.575	7.5
Azobenzene		1.460	1.373	1.319	1.219	1.200	1.269	9.4
2,4,6-Tribromophenol		0.199	0.200	0.197	0.194	0.197	0.198	1.4
4-Bromophenyl-phenylether		0.230	0.219	0.223	0.209	0.208	0.215	4.1
Hexachlorobenzene		0.261	0.255	0.251	0.237	0.235	0.245	4.3
Atrazine		0.204	0.189	0.155	0.156	0.127	0.157	18.5
Pentachlorophenol		0.105	0.121	0.133	0.138	0.139	0.132	10.6
Phenanthrene		1.082	1.044	1.004	0.915	0.885	0.954	9.3
Anthracene		1.071	1.014	0.984	0.894	0.881	0.936	9.3
Carbazole		0.973	0.919	0.901	0.822	0.805	0.855	8.9
Di-n-butylphthalate		1.119	1.096	1.062	0.975	0.961	1.012	7.9
Fluoranthene		1.157	1.101	1.044	0.950	0.928	0.998	10.5
Benzidine		0.507	0.466	0.380	0.490	0.365	0.391	26.0
Pyrene		1.851	1.733	1.728	1.590	1.572	1.651	7.5
Terphenyl-d14		1.383	1.309	1.258	1.159	1.164	1.221	8.2
Butylbenzylphthalate		0.580	0.596	0.613	0.597	0.601	0.595	2.9
3,3-Dichlorobenzidine		0.387	0.409	0.410	0.417	0.406	0.403	2.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF110524 SAS No.: BF110524 SDG No.: BF110524
Instrument ID: _____ Calibration Date(s): 11/5/2024 : _____
Calibration Time(s): 12:26 _____

LAB FILE ID:		RRF2.5 = BF140231.D			RRF005 = BF140232.D		RRF010 = BF140233.D	
		RRF020 = BF140234.D			RRF040 = BF140235.D		RRF050 = BF140236.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.386	1.344	1.345	1.232	1.232	1.284	5.7
Chrysene		1.320	1.264	1.206	1.154	1.177	1.202	5.8
Bis(2-ethylhexyl)phthalate		0.868	0.858	0.858	0.819	0.825	0.833	3.8
Di-n-octyl phthalate		1.201	1.234	1.283	1.267	1.265	1.254	2.5
Benzo(b)fluoranthene		1.300	1.184	1.214	1.245	1.125	1.210	6.0
Benzo(k)fluoranthene		1.214	1.230	1.206	1.027	1.085	1.110	9.5
Benzo(a)pyrene		1.023	0.999	1.022	0.993	0.975	0.997	2.2
Indeno(1,2,3-cd)pyrene		1.107	1.110	1.213	1.195	1.172	1.174	4.1
Dibenzo(a,h)anthracene		0.917	0.923	0.998	0.979	0.968	0.966	3.4
Benzo(g,h,i)perylene		0.949	0.941	1.017	0.994	0.977	0.985	3.1
1,2,4,5-Tetrachlorobenzene		0.657	0.619	0.600	0.562	0.559	0.586	7.2
1,4-Dioxane		0.613	0.582	0.576	0.550	0.526	0.555	6.6
2,3,4,6-Tetrachlorophenol		0.323	0.324	0.321	0.305	0.309	0.313	3.3
1-Methylnaphthalene		0.765	0.720	0.691	0.634	0.612	0.661	10.0

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.: BF110624 SAS No.: BF110624 SDG NO.: BF110624

EPA Sample No.: SSTDICCC040 Date Analyzed: Nov 6 2024 12:00AM

Lab File ID: BF140235.D Time Analyzed: 13:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	201300	6.881	739114	8.16	424404	9.92
UPPER LIMIT	402600	7.381	1478228	8.657	848808	10.422
LOWER LIMIT	100650	6.381	369557	7.657	212202	9.422
EPA SAMPLE NO.						
01 PB164366BL	194346	6.88	748217	8.15	449315	9.91
02 HR-02-110424	147900	6.88	535760	8.16	278758	9.92
03 HR-03-110424	139386	6.88	507748	8.16	253554	9.92

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.: BF110624 SAS No.: BF110624 SDG NO.: BF110624

EPA Sample No.: SSTDCCC040 Date Analyzed: Nov 6 2024 12:00AM

Lab File ID: BF140253.D Time Analyzed: 13:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	169690	6.875	645818	8.16	374513	9.92
UPPER LIMIT	339380	7.375	1291636	8.657	749026	10.416
LOWER LIMIT	84845	6.375	322909	7.657	187256.5	9.416
EPA SAMPLE NO.						
01 PB164366BL	194346	6.88	748217	8.15	449315	9.91
02 HR-02-110424	147900	6.88	535760	8.16	278758	9.92
03 HR-03-110424	139386	6.88	507748	8.16	253554	9.92

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.: BF110624 SAS No.: BF110624 SDG NO.: BF110624

EPA Sample No.: SSTDICCC040 Date Analyzed: Nov 6 2024 12:00AM

Lab File ID: BF140235.D Time Analyzed: 13:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	741987	11.41	448378	14.063	424484	15.562
UPPER LIMIT	1483974	11.91	896756	14.563	848968	16.062
LOWER LIMIT	370993.5	10.91	224189	13.563	212242	15.062
EPA SAMPLE NO.						
01 PB164366BL	819195	11.40	509272	14.06	417555	15.58
02 HR-02-110424	386308	11.40	294782	14.05	223360	15.54
03 HR-03-110424	353354 *	11.40	254542	14.05	194033 *	15.54

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.: BF110624 SAS No.: BF110624 SDG NO.: BF110624

EPA Sample No.: SSTDCCC040 Date Analyzed: Nov 6 2024 12:00AM

Lab File ID: BF140253.D Time Analyzed: 13:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	665690	11.404	406906	14.062	372528	15.58
UPPER LIMIT	1331380	11.904	813812	14.562	745056	16.08
LOWER LIMIT	332845	10.904	203453	13.562	186264	15.08
EPA SAMPLE NO.						
01 PB164366BL	819195	11.40	509272	14.06	417555	15.58
02 HR-02-110424	386308	11.40	294782	14.05	223360	15.54
03 HR-03-110424	353354	11.40	254542	14.05	194033	15.54

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.: **BF110624**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
P4368-02	n-Nitrosodimethylamine	330	310	ug/Kg	94				70	130	
	Pyridine	170	320	ug/Kg	188		*		70	130	
	Benzaldehyde	330	420	ug/Kg	127				70	130	
	Aniline	170	440	ug/Kg	259		*		70	130	
	Phenol	170	350	ug/Kg	206		*		70	130	
	bis(2-Chloroethyl)ether	170	360	ug/Kg	212		*		70	130	
	2-Chlorophenol	170	370	ug/Kg	218		*		70	130	
	1,2-Dichlorobenzene	170	350	ug/Kg	206		*		70	130	
	1,3-Dichlorobenzene	170	350	ug/Kg	206		*		70	130	
	1,4-Dichlorobenzene	170	350	ug/Kg	206		*		70	130	
	Benzyl Alcohol	330	390	ug/Kg	118				70	130	
	2-Methylphenol	170	350	ug/Kg	206		*		70	130	
	2,2-oxybis(1-Chloropropane)	170	360	ug/Kg	212		*		70	130	
	Acetophenone	170	360	ug/Kg	212		*		70	130	
	3+4-Methylphenols	330	360	ug/Kg	109				70	130	
	N-Nitroso-di-n-propylamine	80	350	ug/Kg	438		*		70	130	
	Hexachloroethane	170	330	ug/Kg	194		*		70	130	
	Nitrobenzene	170	330	ug/Kg	194		*		70	130	
	Isophorone	170	350	ug/Kg	206		*		70	130	
	2-Nitrophenol	170	340	ug/Kg	200		*		70	130	
	2,4-Dimethylphenol	170	350	ug/Kg	206		*		70	130	
	bis(2-Chloroethoxy)methane	170	350	ug/Kg	206		*		70	130	
	2,4-Dichlorophenol	170	360	ug/Kg	212		*		70	130	
	1,2,4-Trichlorobenzene	170	350	ug/Kg	206		*		70	130	
	Benzoic acid	330	0	ug/Kg	0		*		70	130	
	Naphthalene	170	350	ug/Kg	206		*		70	130	
	4-Chloroaniline	170	400	ug/Kg	235		*		70	130	
	Hexachlorobutadiene	170	330	ug/Kg	194		*		70	130	
	Caprolactam	330	340	ug/Kg	103				70	130	
	4-Chloro-3-methylphenol	170	350	ug/Kg	206		*		70	130	
	2-Methylnaphthalene	170	360	ug/Kg	212		*		70	130	
	Hexachlorocyclopentadiene	330	370	ug/Kg	112				70	130	
	2,4,6-Trichlorophenol	170	330	ug/Kg	194		*		70	130	
	2,4,5-Trichlorophenol	170	320	ug/Kg	188		*		70	130	
	1,1-Biphenyl	170	360	ug/Kg	212		*		70	130	
	2-Chloronaphthalene	170	340	ug/Kg	200		*		70	130	
	2-Nitroaniline	170	320	ug/Kg	188		*		70	130	
	Dimethylphthalate	170	350	ug/Kg	206		*		70	130	
	Acenaphthylene	170	380	ug/Kg	224		*		70	130	
	2,6-Dinitrotoluene	170	320	ug/Kg	188		*		70	130	
	3-Nitroaniline	170	350	ug/Kg	206		*		70	130	
	Acenaphthene	170	330	ug/Kg	194		*		70	130	
	2,4-Dinitrophenol	330	310	ug/Kg	94				70	130	
	4-Nitrophenol	330	280	ug/Kg	85				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BF110624**

Client: _____

Analytical Method: **8270E**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
P4368-02	Dibenzofuran	170	360	ug/Kg	212		*		70	130	
	2,4-Dinitrotoluene	170	320	ug/Kg	188		*		70	130	
	Diethylphthalate	170	340	ug/Kg	200		*		70	130	
	4-Chlorophenyl-phenylether	170	340	ug/Kg	200		*		70	130	
	Fluorene	170	350	ug/Kg	206		*		70	130	
	4-Nitroaniline	170	330	ug/Kg	194		*		70	130	
	4,6-Dinitro-2-methylphenol	330	220	ug/Kg	67		*		70	130	
	N-Nitrosodiphenylamine	170	360	ug/Kg	212		*		70	130	
	Azobenzene	170	340	ug/Kg	200		*		70	130	
	4-Bromophenyl-phenylether	170	350	ug/Kg	206		*		70	130	
	Hexachlorobenzene	170	340	ug/Kg	200		*		70	130	
	Atrazine	170	450	ug/Kg	265		*		70	130	
	Pentachlorophenol	330	250	ug/Kg	76				70	130	
	Phenanthrene	170	360	ug/Kg	212		*		70	130	
	Anthracene	170	380	ug/Kg	224		*		70	130	
	Carbazole	170	350	ug/Kg	206		*		70	130	
	Di-n-butylphthalate	170	350	ug/Kg	206		*		70	130	
	Fluoranthene	170	350	ug/Kg	206		*		70	130	
	Benzidine	330	390	ug/Kg	118				70	130	
	Pyrene	170	350	ug/Kg	206		*		70	130	
	Butylbenzylphthalate	170	340	ug/Kg	200		*		70	130	
	3,3-Dichlorobenzidine	330	320	ug/Kg	97				70	130	
	Benzo(a)anthracene	170	350	ug/Kg	206		*		70	130	
	Chrysene	170	350	ug/Kg	206		*		70	130	
	bis(2-Ethylhexyl)phthalate	170	350	ug/Kg	206		*		70	130	
	Di-n-octyl phthalate	330	320	ug/Kg	97				70	130	
	Benzo(b)fluoranthene	170	340	ug/Kg	200		*		70	130	
	Benzo(k)fluoranthene	170	340	ug/Kg	200		*		70	130	
	Benzo(a)pyrene	170	340	ug/Kg	200		*		70	130	
	Indeno(1,2,3-cd)pyrene	170	300	ug/Kg	176		*		70	130	
	Dibenz(a,h)anthracene	170	300	ug/Kg	176		*		70	130	
	Benzo(g,h,i)perylene	170	280	ug/Kg	165		*		70	130	
	1,2,4,5-Tetrachlorobenzene	170	360	ug/Kg	212		*		70	130	
	1,4-Dioxane	170	350	ug/Kg	206		*		70	130	
	2,3,4,6-Tetrachlorophenol	170	330	ug/Kg	194		*		70	130	
	1-Methylnaphthalene	170	350	ug/Kg	206		*		70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BF110624**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
P4368-08	n-Nitrosodimethylamine	10	9.2	ug/L	92				70	130	
	Pyridine	5	9.8	ug/L	196		*		70	130	
	Benzaldehyde	10	12.7	ug/L	127				70	130	
	Aniline	5	13.2	ug/L	264		*		70	130	
	Phenol	5	10.7	ug/L	214		*		70	130	
	bis(2-Chloroethyl)ether	5	10.7	ug/L	214		*		70	130	
	2-Chlorophenol	5	10.9	ug/L	218		*		70	130	
	1,2-Dichlorobenzene	5	10.6	ug/L	212		*		70	130	
	1,3-Dichlorobenzene	5	10.5	ug/L	210		*		70	130	
	1,4-Dichlorobenzene	5	10.5	ug/L	210		*		70	130	
	Benzyl Alcohol	10	11.8	ug/L	118				70	130	
	2-Methylphenol	5	10.6	ug/L	212		*		70	130	
	2,2-oxybis(1-Chloropropane)	5	10.9	ug/L	218		*		70	130	
	Acetophenone	5	10.9	ug/L	218		*		70	130	
	3+4-Methylphenols	10	11.1	ug/L	111				70	130	
	N-Nitroso-di-n-propylamine	2.5	10.6	ug/L	424		*		70	130	
	Hexachloroethane	5	10.1	ug/L	202		*		70	130	
	Nitrobenzene	5	9.8	ug/L	196		*		70	130	
	Isophorone	5	10.4	ug/L	208		*		70	130	
	2-Nitrophenol	5	10.2	ug/L	204		*		70	130	
	2,4-Dimethylphenol	5	10.3	ug/L	206		*		70	130	
	bis(2-Chloroethoxy)methane	5	10.6	ug/L	212		*		70	130	
	2,4-Dichlorophenol	5	10.4	ug/L	208		*		70	130	
	1,2,4-Trichlorobenzene	5	10.1	ug/L	202		*		70	130	
	Benzoic acid	10	11.8	ug/L	118				70	130	
	Naphthalene	5	10.5	ug/L	210		*		70	130	
	4-Chloroaniline	5	11.9	ug/L	238		*		70	130	
	Hexachlorobutadiene	5	9.7	ug/L	194		*		70	130	
	Caprolactam	10	10.2	ug/L	102				70	130	
	4-Chloro-3-methylphenol	5	10.3	ug/L	206		*		70	130	
	2-Methylnaphthalene	5	10.9	ug/L	218		*		70	130	
	Hexachlorocyclopentadiene	10	11.4	ug/L	114				70	130	
	2,4,6-Trichlorophenol	5	10.1	ug/L	202		*		70	130	
	2,4,5-Trichlorophenol	5	10.2	ug/L	204		*		70	130	
	1,1-Biphenyl	5	11	ug/L	220		*		70	130	
	2-Chloronaphthalene	5	10.2	ug/L	204		*		70	130	
	2-Nitroaniline	5	9.8	ug/L	196		*		70	130	
	Dimethylphthalate	5	10.6	ug/L	212		*		70	130	
	Acenaphthylene	5	11.6	ug/L	232		*		70	130	
	2,6-Dinitrotoluene	5	9.6	ug/L	192		*		70	130	
	3-Nitroaniline	5	10.7	ug/L	214		*		70	130	
	Acenaphthene	5	10.1	ug/L	202		*		70	130	
	2,4-Dinitrophenol	10	9.9	ug/L	99				70	130	
	4-Nitrophenol	10	8.9	ug/L	89				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BF110624**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
P4368-08	Dibenzofuran	5	11	ug/L	220		*		70	130	
	2,4-Dinitrotoluene	5	10	ug/L	200		*		70	130	
	Diethylphthalate	5	10.4	ug/L	208		*		70	130	
	4-Chlorophenyl-phenylether	5	10.5	ug/L	210		*		70	130	
	Fluorene	5	10.6	ug/L	212		*		70	130	
	4-Nitroaniline	5	9.9	ug/L	198		*		70	130	
	4,6-Dinitro-2-methylphenol	10	10.4	ug/L	104				70	130	
	N-Nitrosodiphenylamine	5	10.7	ug/L	214		*		70	130	
	Azobenzene	5	10.4	ug/L	208		*		70	130	
	4-Bromophenyl-phenylether	5	10.6	ug/L	212		*		70	130	
	Hexachlorobenzene	5	10.1	ug/L	202		*		70	130	
	Atrazine	5	13.5	ug/L	270		*		70	130	
	Pentachlorophenol	10	7.7	ug/L	77				70	130	
	Phenanthrene	5	11.1	ug/L	222		*		70	130	
	Anthracene	5	11.3	ug/L	226		*		70	130	
	Carbazole	5	10.6	ug/L	212		*		70	130	
	Di-n-butylphthalate	5	10.6	ug/L	212		*		70	130	
	Fluoranthene	5	10.7	ug/L	214		*		70	130	
	Benzidine	10	12.9	ug/L	129				70	130	
	Pyrene	5	10.2	ug/L	204		*		70	130	
	Butylbenzylphthalate	5	9.8	ug/L	196		*		70	130	
	3,3-Dichlorobenzidine	10	9.9	ug/L	99				70	130	
	Benzo(a)anthracene	5	10.5	ug/L	210		*		70	130	
	Chrysene	5	10.4	ug/L	208		*		70	130	
	bis(2-Ethylhexyl)phthalate	5	10.1	ug/L	202		*		70	130	
	Di-n-octyl phthalate	10	9.6	ug/L	96				70	130	
	Benzo(b)fluoranthene	5	9.7	ug/L	194		*		70	130	
	Benzo(k)fluoranthene	5	11.1	ug/L	222		*		70	130	
	Benzo(a)pyrene	5	10.4	ug/L	208		*		70	130	
	Indeno(1,2,3-cd)pyrene	5	9.4	ug/L	188		*		70	130	
	Dibenz(a,h)anthracene	5	9.2	ug/L	184		*		70	130	
	Benzo(g,h,i)perylene	5	8.3	ug/L	166		*		70	130	
	1,2,4,5-Tetrachlorobenzene	5	10.7	ug/L	214		*		70	130	
	1,4-Dioxane	5	10.7	ug/L	214		*		70	130	
	2,3,4,6-Tetrachlorophenol	5	10.3	ug/L	206		*		70	130	
	1-Methylnaphthalene	5	10.1	ug/L	202		*		70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164366BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF110624

SAS No.: BF110624 SDG NO.: BF110624

Lab File ID: BF140254.D

Lab Sample ID: PB164366BL

Instrument ID: BNA_F

Date Extracted: 10/24/2024

Matrix: (soil/water) Solid

Date Analyzed: 11/06/2024

Level: (low/med) LOW

Time Analyzed: 13:08

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

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

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

HR-02-110424

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF110624

SAS No.: BF110624 SDG NO.: BF110624

Lab File ID: BF140257.D

Lab Sample ID: P4709-01

Instrument ID: BNA_F

Date Extracted: 11/06/2024

Matrix: (soil/water) Solid

Date Analyzed: 11/06/2024

Level: (low/med) LOW

Time Analyzed: 15:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
HR-02-110424	P4709-01	BF140257.D	11/06/2024
HR-03-110424	P4709-03	BF140258.D	11/06/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BF110624**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB164366BL	PB164366BL	BF140254.D	2-Fluorophenol	150	124.52	83		18	112
			Phenol-d6	150	120.08	80		15	107
			Nitrobenzene-d5	100	84.20	84		18	107
			2-Fluorobiphenyl	100	83.67	84		20	109
			2,4,6-Tribromophenol	150	130.57	87		10	116
			Terphenyl-d14	100	91.95	92		10	105

Surrogate Summary

SW-846

SDG No.: **BF110624**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4709-01	HR-02-110424	BF140257.D	2-Fluorophenol	150	71.64	48		18	112
			Phenol-d6	150	70.41	47		15	107
			Nitrobenzene-d5	100	50.95	51		18	107
			2-Fluorobiphenyl	100	55.95	56		20	109
			2,4,6-Tribromophenol	150	60.24	40		10	116
			Terphenyl-d14	100	42.56	43		10	105
P4709-03	HR-03-110424	BF140258.D	2-Fluorophenol	150	93.19	62		18	112
			Phenol-d6	150	92.07	61		15	107
			Nitrobenzene-d5	100	65.12	65		18	107
			2-Fluorobiphenyl	100	73.52	74		20	109
			2,4,6-Tribromophenol	150	83.31	56		10	116
			Terphenyl-d14	100	62.51	63		10	105

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BF110624

Lab Code: CHEM

SAS No.: BF110624

SDG NO.: BF110624

Lab File ID: BF140252.D

DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_F

DFTPP Injection Time: 12:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.7
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	27.1
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	88
443	15.0 - 24.0% of mass 442	17.2 (19.5) 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
SSTDCCC040	SSTDCCC040	BF140253.D	11/06/2024	12:42
PB164366BL	PB164366BL	BF140254.D	11/06/2024	13:08
HR-02-110424	P4709-01	BF140257.D	11/06/2024	15:25
HR-03-110424	P4709-03	BF140258.D	11/06/2024	15:52
SSTDCCC040EC	SSTDCCC040	BF140259.D	11/06/2024	17:30