

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF031924 SAS No.: BF031924 SDG No.: BF031924

Instrument ID: BNA_F Calibration Date/Time: 3/19/2024 1:11:43

Lab File ID: BF137641.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	0.652	0.621		-4.755	
Pyridine	1.741	1.716		-1.436	
2-Fluorophenol	1.321	1.328		0.53	
Benzaldehyde	0.934	0.887		-5.032	
Aniline	2.329	2.177		-6.526	
Phenol-d6	1.906	1.771		-7.083	
Phenol	2.052	1.932		-5.848	20.0
bis(2-Chloroethyl)ether	1.503	1.382		-8.051	
2-Chlorophenol	1.393	1.344		-3.518	
1,2-Dichlorobenzene	1.398	1.337		-4.363	
1,3-Dichlorobenzene	1.488	1.434		-3.629	
1,4-Dichlorobenzene	1.523	1.448		-4.924	20.0
Benzyl Alcohol	1.187	1.177		-0.842	
2-Methylphenol	1.303	1.213		-6.907	
2,2-oxybis(1-Chloropropane)	2.584	2.157		-16.525	
Acetophenone	0.484	0.460		-4.959	
3+4-Methylphenols	1.493	1.407		-5.76	
n-Nitroso-di-n-propylamine	1.177	1.010	0.050	-14.189	
Nitrobenzene-d5	0.430	0.406		-5.581	
Hexachloroethane	0.501	0.491		-1.996	
Nitrobenzene	0.432	0.414		-4.167	
Isophorone	0.818	0.733		-10.391	
2-Nitrophenol	0.172	0.175		1.744	20.0
2,4-Dimethylphenol	0.321	0.310		-3.427	
bis(2-Chloroethoxy)methane	0.480	0.449		-6.458	
2,4-Dichlorophenol	0.294	0.290		-1.361	20.0
1,2,4-Trichlorobenzene	0.310	0.304		-1.935	
Benzoic acid	0.167	0.147		-11.976	
Naphthalene	1.073	1.022		-4.753	
4-Chloroaniline	0.421	0.404		-4.038	
Hexachlorobutadiene	0.183	0.180		-1.639	20.0
Caprolactam	0.100	0.097		-3.0	
4-Chloro-3-methylphenol	0.329	0.310		-5.775	20.0
2-Methylnaphthalene	0.684	0.647		-5.409	
Hexachlorocyclopentadiene	0.180	0.202	0.050	12.222	
2,4,6-Trichlorophenol	0.364	0.364		0.0	20.0
2-Fluorobiphenyl	1.278	1.208		-5.477	
2,4,5-Trichlorophenol	0.419	0.423		0.955	
1,1-Biphenyl	1.464	1.417		-3.21	
2-Chloronaphthalene	1.116	1.077		-3.495	
2-Nitroaniline	0.379	0.374		-1.319	

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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
Dimethylphthalate	1.392	1.320		-5.172	
Acenaphthylene	1.786	1.696		-5.039	
2,6-Dinitrotoluene	0.291	0.288		-1.031	
3-Nitroaniline	0.308	0.307		-0.325	
Acenaphthene	1.066	1.007		-5.535	20.0
2,4-Dinitrophenol	0.111	0.130	0.050	17.117	
4-Nitrophenol	0.190	0.204	0.050	7.368	
Dibenzofuran	1.624	1.521		-6.342	
2,4-Dinitrotoluene	0.358	0.362		1.117	
Diethylphthalate	1.315	1.243		-5.475	
4-Chlorophenyl-phenylether	0.611	0.567		-7.201	
Fluorene	1.247	1.153		-7.538	
4-Nitroaniline	0.265	0.244		-7.925	
4,6-Dinitro-2-methylphenol	0.111	0.120		8.108	
n-Nitrosodiphenylamine	0.644	0.635		-1.398	20.0
Azobenzene	1.514	1.321		-12.748	
2,4,6-Tribromophenol	0.176	0.179		1.705	
4-Bromophenyl-phenylether	0.218	0.218		0.0	
Hexachlorobenzene	0.220	0.219		-0.455	
Atrazine	0.196	0.200		2.041	
Pentachlorophenol	0.133	0.126		-5.263	20.0
Phenanthrene	1.088	1.030		-5.331	
Anthracene	1.118	1.071		-4.204	
Carbazole	0.958	0.918		-4.175	
Di-n-butylphthalate	1.139	1.112		-2.371	
Fluoranthene	1.064	1.026		-3.571	20.0
Benzidine	0.489	0.357		-26.994	
Pyrene	1.962	1.687		-14.016	
Terphenyl-d14	1.454	1.262		-13.205	
Butylbenzylphthalate	0.501	0.620		23.752	
3,3-Dichlorobenzidine	0.373	0.410		9.92	
Benzo (a) anthracene	1.402	1.294		-7.703	
Chrysene	1.417	1.326		-6.422	
Bis (2-ethylhexyl) phthalate	0.637	0.801		25.746	
Di-n-octyl phthalate	1.120	1.270		13.393	20.0
Benzo (b) fluoranthene	1.183	1.093		-7.608	
Benzo (k) fluoranthene	1.271	1.213		-4.563	
Benzo (a) pyrene	1.166	1.122		-3.774	20.0
Indeno (1,2,3-cd) pyrene	1.316	1.183		-10.106	
Dibenzo (a,h) anthracene	1.068	0.967		-9.457	
Benzo (g,h,i) perylene	1.096	0.981		-10.493	



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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
1,2,4,5-Tetrachlorobenzene	0.558	0.563		0.896	
1,4-Dioxane	0.722	0.674		-6.648	20.0
2,3,4,6-Tetrachlorophenol	0.336	0.326		-2.976	
1-Methylnaphthalene	0.644	0.601		-6.677	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BL	SDG No.:	BF031924
Lab Sample ID:	PB159643BL	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
BF137642.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1	U	1	8	10	ug/L
110-86-1	Pyridine	1.6	U	1.6	4	5	ug/L
100-52-7	Benzaldehyde	4	U	4	8	10	ug/L
62-53-3	Aniline	1.6	U	1.6	4	5	ug/L
108-95-2	Phenol	0.93	U	0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.2	U	1.2	4	5	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.8	U	0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	1.6	U	1.6	8	10	ug/L
95-48-7	2-Methylphenol	1.1	U	1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.4	U	1.4	4	5	ug/L
98-86-2	Acetophenone	1.1	U	1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	1.2	U	1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.5	U	1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	1	U	1	4	5	ug/L
98-95-3	Nitrobenzene	1.3	U	1.3	4	5	ug/L
78-59-1	Isophorone	1.1	U	1.1	4	5	ug/L
88-75-5	2-Nitrophenol	2	U	2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	1.5	U	1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1	U	1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.1	U	1.1	4	5	ug/L
65-85-0	Benzoic acid	5.5	U	5.5	8	10	ug/L
91-20-3	Naphthalene	1	U	1	4	5	ug/L
106-47-8	4-Chloroaniline	1.3	U	1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	1.3	U	1.3	4	5	ug/L
105-60-2	Caprolactam	1.7	U	1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	1.1	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BL	SDG No.:	BF031924
Lab Sample ID:	PB159643BL	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
BF137642.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	5	U	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	1	U	1	4	5	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	4	5	ug/L
88-74-4	2-Nitroaniline	1.4	U	1.4	4	5	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	4	5	ug/L
208-96-8	Acenaphthylene	1	U	1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	1.2	4	5	ug/L
99-09-2	3-Nitroaniline	1.4	U	1.4	4	5	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	4	5	ug/L
Total PAH	Total PAH	17.36	U	17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	6.4	U	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	2	U	2	8	10	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	4	5	ug/L
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	2.7	U	2.7	4	10	ug/L
84-66-2	Diethylphthalate	1	U	1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	4	5	ug/L
86-73-7	Fluorene	0.96	U	0.96	4	5	ug/L
100-01-6	4-Nitroaniline	2	U	2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.1	U	3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	4	5	ug/L
103-33-3	Azobenzene	1.2	U	1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	1.1	U	1.1	4	5	ug/L
1912-24-9	Atrazine	1.3	U	1.3	4	5	ug/L
87-86-5	Pentachlorophenol	1.9	U	1.9	8	10	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	4	5	ug/L
120-12-7	Anthracene	1.1	U	1.1	4	5	ug/L
86-74-8	Carbazole	1.2	U	1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	1.5	U	1.5	4	5	ug/L
206-44-0	Fluoranthene	1.3	U	1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BL	SDG No.:	BF031924
Lab Sample ID:	PB159643BL	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
BF137642.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	4.1	U	4.1	8	10	ug/L
129-00-0	Pyrene	1.1	U	1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	2.1	U	2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.3	U	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	4	5	ug/L
218-01-9	Chrysene	0.86	U	0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	U	1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	2.5	U	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	1.1	U	1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	1.2	U	1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	1.7	U	1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1	U	1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	4	5	ug/L
123-91-1	1,4-Dioxane	1.3	U	1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	115.443		10-139		77	SPK: -150
13127-88-3	Phenol-d6	105.906		10-134		71	SPK: -150
4165-60-0	Nitrobenzene-d5	77.692		49-133		78	SPK: -100
321-60-8	2-Fluorobiphenyl	78.365		52-132		78	SPK: -100
118-79-6	2,4,6-Tribromophenol	129.331		32-145		86	SPK: -150
1718-51-0	Terphenyl-d14	71.079		36-145		71	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	211538	6.728				
1146-65-2	Naphthalene-d8	817624	8.004				
15067-26-2	Acenaphthene-d10	436011	9.757				
1517-22-2	Phenanthrene-d10	756396	11.239				
1719-03-5	Chrysene-d12	467146	13.874				
1520-96-3	Perylene-d12	399215	15.298				



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BL	SDG No.:	BF031924
Lab Sample ID:	PB159643BL	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
BF137642.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.3	A			4.945	
000111-06-8	Hexadecanoic acid, butyl ester	2.4	J			12.651	
000629-94-7	Heneicosane	2.3	J			14.968	
000630-01-3	Hexacosane	3.1	J			15.739	
000646-31-1	Tetracosane	3.3	J			16.215	
001560-98-1	Octacosane, 2-methyl-	2.4	J			16.774	
000630-04-6	Hentriacontane	2.3	J			17.427	

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BS	SDG No.:	BF031924
Lab Sample ID:	PB159643BS	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
BF137643.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40.9		1	8	10	ug/L
110-86-1	Pyridine	31.5		1.6	4	5	ug/L
100-52-7	Benzaldehyde	31		4	8	10	ug/L
62-53-3	Aniline	20.1		1.6	4	5	ug/L
108-95-2	Phenol	40.9		0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	42.3		1.2	4	5	ug/L
95-57-8	2-Chlorophenol	45.3		0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	45.6		0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	44.7		0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	44.6		0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	48.2		1.6	8	10	ug/L
95-48-7	2-Methylphenol	39.9		1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.4		1.4	4	5	ug/L
98-86-2	Acetophenone	45		1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	39.9		1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.1		1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	45.9		1	4	5	ug/L
98-95-3	Nitrobenzene	42.6		1.3	4	5	ug/L
78-59-1	Isophorone	42.5		1.1	4	5	ug/L
88-75-5	2-Nitrophenol	48.7		2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	37.8		1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	43.3		1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	45.3		0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	46.2		1.1	4	5	ug/L
65-85-0	Benzoic acid	43.3		5.5	8	10	ug/L
91-20-3	Naphthalene	42.9		1	4	5	ug/L
106-47-8	4-Chloroaniline	12.4		1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	46.1		1.3	4	5	ug/L
105-60-2	Caprolactam	42.7		1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	44.4		0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	41.2		1.1	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BS	SDG No.:	BF031924
Lab Sample ID:	PB159643BS	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
BF137643.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	83.9	E	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	47.4		0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	44.8		1	4	5	ug/L
92-52-4	1,1-Biphenyl	45.7		0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	47.4		0.97	4	5	ug/L
88-74-4	2-Nitroaniline	47.4		1.4	4	5	ug/L
131-11-3	Dimethylphthalate	45.3		0.93	4	5	ug/L
208-96-8	Acenaphthylene	46.4		1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	47.8		1.2	4	5	ug/L
99-09-2	3-Nitroaniline	27		1.4	4	5	ug/L
83-32-9	Acenaphthene	43.3		0.81	4	5	ug/L
Total PAH	Total PAH	700		17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	92.3	E	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	81.9	E	2	8	10	ug/L
132-64-9	Dibenzofuran	43.2		0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	46.1		2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	48.3		1.5	4	5	ug/L
84-66-2	Diethylphthalate	44.3		1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.5		0.98	4	5	ug/L
86-73-7	Fluorene	43.4		0.96	4	5	ug/L
100-01-6	4-Nitroaniline	44.1		2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	51.8		3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	43.8		0.89	4	5	ug/L
103-33-3	Azobenzene	42		1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	45.4		0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	48.5		1.1	4	5	ug/L
1912-24-9	Atrazine	41.6		1.3	4	5	ug/L
87-86-5	Pentachlorophenol	85.4	E	1.9	8	10	ug/L
85-01-8	Phenanthrene	42.6		0.89	4	5	ug/L
120-12-7	Anthracene	42.6		1.1	4	5	ug/L
86-74-8	Carbazole	43.9		1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	44.8		1.5	4	5	ug/L
206-44-0	Fluoranthene	43.3		1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BS	SDG No.:	BF031924
Lab Sample ID:	PB159643BS	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
BF137643.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	16.9		4.1	8	10	ug/L
129-00-0	Pyrene	39.7		1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	59.1		2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	39.7		1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	42.9		0.94	4	5	ug/L
218-01-9	Chrysene	43.1		0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	59		1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	50.6		2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	49.8		1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	43.4		1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	44.6		1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.3		1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	44.7		1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	43		1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.4		1.1	4	5	ug/L
123-91-1	1,4-Dioxane	35		1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46		0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	41.7		0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	122.699		10-139		82	SPK: -150
13127-88-3	Phenol-d6	113.57		10-134		76	SPK: -150
4165-60-0	Nitrobenzene-d5	81.673		49-133		82	SPK: -100
321-60-8	2-Fluorobiphenyl	86.302		52-132		86	SPK: -100
118-79-6	2,4,6-Tribromophenol	142.284		32-145		95	SPK: -150
1718-51-0	Terphenyl-d14	78.1		36-145		78	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	185994	6.728				
1146-65-2	Naphthalene-d8	710548	8.01				
15067-26-2	Acenaphthene-d10	370315	9.763				
1517-22-2	Phenanthrene-d10	639032	11.245				
1719-03-5	Chrysene-d12	379612	13.88				
1520-96-3	Perylene-d12	357746	15.298				



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BS	SDG No.:	BF031924
Lab Sample ID:	PB159643BS	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
BF137643.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BSD	SDG No.:	BF031924
Lab Sample ID:	PB159643BSD	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
BF137644.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	39.8		1	8	10	ug/L
110-86-1	Pyridine	31.3		1.6	4	5	ug/L
100-52-7	Benzaldehyde	33		4	8	10	ug/L
62-53-3	Aniline	19.7		1.6	4	5	ug/L
108-95-2	Phenol	40.2		0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	42.3		1.2	4	5	ug/L
95-57-8	2-Chlorophenol	44.2		0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	45.2		0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	44		0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	44.2		0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	47.2		1.6	8	10	ug/L
95-48-7	2-Methylphenol	39.3		1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.5		1.4	4	5	ug/L
98-86-2	Acetophenone	43.6		1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	39.6		1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.8		1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	45.5		1	4	5	ug/L
98-95-3	Nitrobenzene	41.6		1.3	4	5	ug/L
78-59-1	Isophorone	40.8		1.1	4	5	ug/L
88-75-5	2-Nitrophenol	47.7		2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	36.5		1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.9		1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	44.1		0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.7		1.1	4	5	ug/L
65-85-0	Benzoic acid	42.4		5.5	8	10	ug/L
91-20-3	Naphthalene	41.8		1	4	5	ug/L
106-47-8	4-Chloroaniline	12.8		1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	44.8		1.3	4	5	ug/L
105-60-2	Caprolactam	40.3		1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	42.2		0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	39.9		1.1	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BSD	SDG No.:	BF031924
Lab Sample ID:	PB159643BSD	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
BF137644.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	83.7	E	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	47		0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		1	4	5	ug/L
92-52-4	1,1-Biphenyl	45		0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	45.9		0.97	4	5	ug/L
88-74-4	2-Nitroaniline	46.5		1.4	4	5	ug/L
131-11-3	Dimethylphthalate	44.4		0.93	4	5	ug/L
208-96-8	Acenaphthylene	45		1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	46.8		1.2	4	5	ug/L
99-09-2	3-Nitroaniline	27.4		1.4	4	5	ug/L
Total PAH	Total PAH	688		17.36	4	80	ug/L
83-32-9	Acenaphthene	42.8		0.81	4	5	ug/L
51-28-5	2,4-Dinitrophenol	91.5	E	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	81.4	E	2	8	10	ug/L
132-64-9	Dibenzofuran	42.5		0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	44.4		2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	47.6		1.5	4	5	ug/L
84-66-2	Diethylphthalate	44.1		1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.7		0.98	4	5	ug/L
86-73-7	Fluorene	42.2		0.96	4	5	ug/L
100-01-6	4-Nitroaniline	42.8		2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	50.5		3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	42.9		0.89	4	5	ug/L
103-33-3	Azobenzene	40.6		1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	44.1		0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	48.2		1.1	4	5	ug/L
1912-24-9	Atrazine	41.4		1.3	4	5	ug/L
87-86-5	Pentachlorophenol	83.3	E	1.9	8	10	ug/L
85-01-8	Phenanthrene	41.9		0.89	4	5	ug/L
120-12-7	Anthracene	41.9		1.1	4	5	ug/L
86-74-8	Carbazole	42.9		1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	43.8		1.5	4	5	ug/L
206-44-0	Fluoranthene	42.3		1.3	4	5	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BSD	SDG No.:	BF031924
Lab Sample ID:	PB159643BSD	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
BF137644.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	19.3		4.1	8	10	ug/L
129-00-0	Pyrene	39.5		1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	58.3		2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	39.7		1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	42.4		0.94	4	5	ug/L
218-01-9	Chrysene	42.8		0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	59.1		1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	50.6		2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	49.4		1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	43		1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	44.5		1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43.6		1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.2		1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	41.7		1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.7		1.1	4	5	ug/L
123-91-1	1,4-Dioxane	34.4		1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.3		0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	40.4		0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	121.429		10-139		81	SPK: -150
13127-88-3	Phenol-d6	110.929		10-134		74	SPK: -150
4165-60-0	Nitrobenzene-d5	78.743		49-133		79	SPK: -100
321-60-8	2-Fluorobiphenyl	84.222		52-132		84	SPK: -100
118-79-6	2,4,6-Tribromophenol	144.805		32-145		97	SPK: -150
1718-51-0	Terphenyl-d14	76.302		36-145		76	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	182793	6.728				
1146-65-2	Naphthalene-d8	716944	8.01				
15067-26-2	Acenaphthene-d10	371097	9.763				
1517-22-2	Phenanthrene-d10	641577	11.245				
1719-03-5	Chrysene-d12	378563	13.88				
1520-96-3	Perylene-d12	347460	15.298				



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	PB159643BSD	SDG No.:	BF031924
Lab Sample ID:	PB159643BSD	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
BF137644.D	1	3/18/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159643

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BL	SDG No.:	BF031924
Lab Sample ID:	PB159655BL	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
BF137645.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.7	U	86.7	270	330	ug/Kg
110-86-1	Pyridine	79.8	U	79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.8	U	96.8	130	170	ug/Kg
108-95-2	Phenol	82.8	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.5	U	84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	85.9	U	85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.4	U	86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	82.9	U	82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.3	U	85.3	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	130	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BL	SDG No.:	BF031924
Lab Sample ID:	PB159655BL	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
BF137645.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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	87.3	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	86.4	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	81	U	81	130	170	ug/Kg
Total PAH	Total PAH	1323.5	U	1323.5	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	84.3	U	84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	69.2	U	169.2	130	340	ug/Kg
84-66-2	Diethylphthalate	80	U	80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	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	81.5	U	81.5	130	170	ug/Kg
103-33-3	Azobenzene	79.5	U	79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BL	SDG No.:	BF031924
Lab Sample ID:	PB159655BL	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
BF137645.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	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	U	81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78	U	78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80	U	80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	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	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	117.788		18-112		79	SPK: -150
13127-88-3	Phenol-d6	108.544		15-107		72	SPK: -150
4165-60-0	Nitrobenzene-d5	76.032		18-107		76	SPK: -100
321-60-8	2-Fluorobiphenyl	78.359		20-109		78	SPK: -100
118-79-6	2,4,6-Tribromophenol	128.846		10-110		86	SPK: -150
1718-51-0	Terphenyl-d14	69.445		14-112		69	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	206459	6.728				
1146-65-2	Naphthalene-d8	818224	8.004				
15067-26-2	Acenaphthene-d10	435382	9.757				
1517-22-2	Phenanthrene-d10	749421	11.239				
1719-03-5	Chrysene-d12	476432	13.874				
1520-96-3	Perylene-d12	401313	15.298				



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BL	SDG No.:	BF031924
Lab Sample ID:	PB159655BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137645.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	140	A			4.946	
000111-06-8	Hexadecanoic acid, butyl ester	79.6	J			12.651	
001560-98-1	Octacosane, 2-methyl-	70.3	J			14.969	
000629-94-7	Heneicosane	92.9	J			15.745	
000638-68-6	Triacontane	96.9	J			16.215	
007098-22-8	Tetratetracontane	75.3	J			16.774	
000630-04-6	Hentriacontane	67	J			17.427	

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BS	SDG No.:	BF031924
Lab Sample ID:	PB159655BS	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
BF137646.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1400		86.8	270	330	ug/Kg
110-86-1	Pyridine	1100		79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	510		180	270	330	ug/Kg
62-53-3	Aniline	660		96.9	130	170	ug/Kg
108-95-2	Phenol	1400		82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1600		84.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1500		86	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1500		86.5	130	170	ug/Kg
100-51-6	Benzyl Alcohol	1600		83	270	330	ug/Kg
95-48-7	2-Methylphenol	1400		80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	130	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	1600		83	130	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	130	170	ug/Kg
78-59-1	Isophorone	1400		84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1300		93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1500		85.4	130	170	ug/Kg
65-85-0	Benzoic acid	1500		240	270	330	ug/Kg
91-20-3	Naphthalene	1400		82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	520		82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	130	170	ug/Kg
105-60-2	Caprolactam	1500		86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BS	SDG No.:	BF031924
Lab Sample ID:	PB159655BS	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
BF137646.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	2800	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	1600		95	130	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.2	130	170	ug/Kg
83-32-9	Acenaphthene	1500		81.1	130	170	ug/Kg
Total PAH	Total PAH	24100		1325.1	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	2900	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	3200		169.4	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	130	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.6	130	170	ug/Kg
86-73-7	Fluorene	1500		85.5	130	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	130	170	ug/Kg
103-33-3	Azobenzene	1400		79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		85	130	170	ug/Kg
1912-24-9	Atrazine	1400		91.4	130	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	1400		84	130	170	ug/Kg
120-12-7	Anthracene	1500		84.4	130	170	ug/Kg
86-74-8	Carbazole	1500		80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.3	130	170	ug/Kg
206-44-0	Fluoranthene	1500		81.7	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BS	SDG No.:	BF031924
Lab Sample ID:	PB159655BS	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
BF137646.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	510		160	270	330	ug/Kg
129-00-0	Pyrene	1400		83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	2000		96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1500		98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.7	130	170	ug/Kg
218-01-9	Chrysene	1500		79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		93	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.8	130	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	129.635		18-112		86	SPK: -150
13127-88-3	Phenol-d6	119.766		15-107		80	SPK: -150
4165-60-0	Nitrobenzene-d5	83.286		18-107		83	SPK: -100
321-60-8	2-Fluorobiphenyl	86.363		20-109		86	SPK: -100
118-79-6	2,4,6-Tribromophenol	151.376		10-110		101	SPK: -150
1718-51-0	Terphenyl-d14	80.317		14-112		80	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	193964	6.728				
1146-65-2	Naphthalene-d8	777713	8.01				
15067-26-2	Acenaphthene-d10	407622	9.763				
1517-22-2	Phenanthrene-d10	696905	11.245				
1719-03-5	Chrysene-d12	407778	13.88				
1520-96-3	Perylene-d12	373321	15.298				



Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	PB159655BS	SDG No.:	BF031924
Lab Sample ID:	PB159655BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137646.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUE	SDG No.:	BF031924
Lab Sample ID:	P1616-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
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
BF137647.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	110	U	110	340	420	ug/Kg
110-86-1	Pyridine	100	U	100	160	210	ug/Kg
100-52-7	Benzaldehyde	230	U	230	340	420	ug/Kg
62-53-3	Aniline	120	U	120	160	210	ug/Kg
108-95-2	Phenol	100	U	100	160	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	160	210	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	160	210	ug/Kg
95-50-1	1,2-Dichlorobenzene	110	U	110	160	210	ug/Kg
541-73-1	1,3-Dichlorobenzene	110	U	110	160	210	ug/Kg
106-46-7	1,4-Dichlorobenzene	110	U	110	160	210	ug/Kg
100-51-6	Benzyl Alcohol	100	U	100	340	420	ug/Kg
95-48-7	2-Methylphenol	100	U	100	160	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	160	210	ug/Kg
98-86-2	Acetophenone	110	U	110	160	210	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	340	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	50.7	U	50.7	100	100	ug/Kg
67-72-1	Hexachloroethane	100	U	100	160	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	160	210	ug/Kg
78-59-1	Isophorone	110	U	110	160	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	160	210	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	160	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	160	210	ug/Kg
120-83-2	2,4-Dichlorophenol	95	U	95	160	210	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	110	U	110	160	210	ug/Kg
65-85-0	Benzoic acid	300	U	300	340	420	ug/Kg
91-20-3	Naphthalene	100	U	100	160	210	ug/Kg
106-47-8	4-Chloroaniline	100	U	100	160	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	160	210	ug/Kg
105-60-2	Caprolactam	110	U	110	340	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	97.5	U	97.5	160	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUE	SDG No.:	BF031924
Lab Sample ID:	P1616-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
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
BF137647.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	200	U	200	340	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	89.9	U	89.9	160	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	93.1	U	93.1	160	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	160	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	160	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	160	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	160	210	ug/Kg
208-96-8	Acenaphthylene	110	U	110	160	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	160	210	ug/Kg
99-09-2	3-Nitroaniline	110	U	110	160	210	ug/Kg
83-32-9	Acenaphthene	100	U	100	160	210	ug/Kg
Total PAH	Total PAH	1658.3	U	1658.3	160	3360	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	340	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	340	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	160	210	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	210	U	210	160	420	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	160	210	ug/Kg
84-66-2	Diethylphthalate	100	U	100	160	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	160	210	ug/Kg
86-73-7	Fluorene	110	U	110	160	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	160	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	340	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	160	210	ug/Kg
103-33-3	Azobenzene	100	U	100	160	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	99.3	U	99.3	160	210	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	160	210	ug/Kg
1912-24-9	Atrazine	120	U	120	160	210	ug/Kg
87-86-5	Pentachlorophenol	97.3	U	97.3	340	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	160	210	ug/Kg
120-12-7	Anthracene	110	U	110	160	210	ug/Kg
86-74-8	Carbazole	100	U	100	160	210	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	160	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUE	SDG No.:	BF031924
Lab Sample ID:	P1616-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
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
BF137647.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	210	U	210	340	420	ug/Kg
129-00-0	Pyrene	100	U	100	160	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	160	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	U	120	340	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	160	210	ug/Kg
218-01-9	Chrysene	100	U	100	160	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	160	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	340	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	160	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	100	U	100	160	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	160	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	98.3	U	98.3	160	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	160	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	160	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	160	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	160	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	94	U	94	160	210	ug/Kg
90-12-0	1-Methylnaphthalene	100	U	100	210	210	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	117.528		18-112		78	SPK: -150
13127-88-3	Phenol-d6	108.469		15-107		72	SPK: -150
4165-60-0	Nitrobenzene-d5	73.863		18-107		74	SPK: -100
321-60-8	2-Fluorobiphenyl	77.094		20-109		77	SPK: -100
118-79-6	2,4,6-Tribromophenol	111.404		10-110		74	SPK: -150
1718-51-0	Terphenyl-d14	58.279		14-112		58	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	124293	6.728				
1146-65-2	Naphthalene-d8	478942	8.004				
15067-26-2	Acenaphthene-d10	257962	9.757				
1517-22-2	Phenanthrene-d10	420952	11.239				
1719-03-5	Chrysene-d12	275328	13.874				
1520-96-3	Perylene-d12	274382	15.298				



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUE	SDG No.:	BF031924
Lab Sample ID:	P1616-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137647.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
000057-10-3	n-Hexadecanoic acid	85.6	J			11.775	

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMS	SDG No.:	BF031924
Lab Sample ID:	P1616-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.08 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
BF137648.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1500		110	340	410	ug/Kg
110-86-1	Pyridine	1400		100	160	210	ug/Kg
100-52-7	Benzaldehyde	530		230	340	410	ug/Kg
62-53-3	Aniline	980		120	160	210	ug/Kg
108-95-2	Phenol	1600		100	160	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		110	160	210	ug/Kg
95-57-8	2-Chlorophenol	1700		100	160	210	ug/Kg
95-50-1	1,2-Dichlorobenzene	1800		110	160	210	ug/Kg
541-73-1	1,3-Dichlorobenzene	1700		110	160	210	ug/Kg
106-46-7	1,4-Dichlorobenzene	1800		110	160	210	ug/Kg
100-51-6	Benzyl Alcohol	1800		100	340	410	ug/Kg
95-48-7	2-Methylphenol	1500		100	160	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		110	160	210	ug/Kg
98-86-2	Acetophenone	1700		110	160	210	ug/Kg
65794-96-9	3+4-Methylphenols	1600		100	340	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		50.6	100	100	ug/Kg
67-72-1	Hexachloroethane	1800		100	160	210	ug/Kg
98-95-3	Nitrobenzene	1600		110	160	210	ug/Kg
78-59-1	Isophorone	1600		110	160	210	ug/Kg
88-75-5	2-Nitrophenol	1800		120	160	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		120	160	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		110	160	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		94.8	160	210	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1800		110	160	210	ug/Kg
65-85-0	Benzoic acid	1400		300	340	410	ug/Kg
91-20-3	Naphthalene	1700		100	160	210	ug/Kg
106-47-8	4-Chloroaniline	620		100	160	210	ug/Kg
87-68-3	Hexachlorobutadiene	1800		100	160	210	ug/Kg
105-60-2	Caprolactam	1700		110	340	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		97.3	160	210	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMS	SDG No.:	BF031924
Lab Sample ID:	P1616-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.08 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
BF137648.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	2700		200	340	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		89.7	160	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		93	160	210	ug/Kg
92-52-4	1,1-Biphenyl	1700		110	160	210	ug/Kg
91-58-7	2-Chloronaphthalene	1800		100	160	210	ug/Kg
88-74-4	2-Nitroaniline	1800		120	160	210	ug/Kg
131-11-3	Dimethylphthalate	1700		100	160	210	ug/Kg
208-96-8	Acenaphthylene	1800		110	160	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		100	160	210	ug/Kg
99-09-2	3-Nitroaniline	1000		110	160	210	ug/Kg
83-32-9	Acenaphthene	1700		100	160	210	ug/Kg
Total PAH	Total PAH	26500		1658	160	3360	ug/Kg
51-28-5	2,4-Dinitrophenol	2600		310	340	410	ug/Kg
100-02-7	4-Nitrophenol	3200		150	340	410	ug/Kg
132-64-9	Dibenzofuran	1700		110	160	210	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	3700		210	160	420	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		110	160	210	ug/Kg
84-66-2	Diethylphthalate	1700		100	160	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		110	160	210	ug/Kg
86-73-7	Fluorene	1700		110	160	210	ug/Kg
100-01-6	4-Nitroaniline	1600		130	160	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		150	340	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		100	160	210	ug/Kg
103-33-3	Azobenzene	1600		100	160	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		99.1	160	210	ug/Kg
118-74-1	Hexachlorobenzene	1900		110	160	210	ug/Kg
1912-24-9	Atrazine	1900		110	160	210	ug/Kg
87-86-5	Pentachlorophenol	3100		97.1	340	410	ug/Kg
85-01-8	Phenanthrene	1700		110	160	210	ug/Kg
120-12-7	Anthracene	1700		110	160	210	ug/Kg
86-74-8	Carbazole	1700		100	160	210	ug/Kg
84-74-2	Di-n-butylphthalate	1800		110	160	210	ug/Kg
206-44-0	Fluoranthene	1600		100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMS	SDG No.:	BF031924
Lab Sample ID:	P1616-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.08 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
BF137648.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	2600		200	340	410	ug/Kg
129-00-0	Pyrene	1500		100	160	210	ug/Kg
85-68-7	Butylbenzylphthalate	2200		120	160	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		120	340	410	ug/Kg
56-55-3	Benzo(a)anthracene	1600		100	160	210	ug/Kg
218-01-9	Chrysene	1700		99.9	160	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		110	160	210	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		140	340	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		100	160	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		100	160	210	ug/Kg
50-32-8	Benzo(a)pyrene	1600		120	160	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		98.1	160	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		100	160	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		100	160	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		110	160	210	ug/Kg
123-91-1	1,4-Dioxane	1500		140	160	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		93.8	160	210	ug/Kg
90-12-0	1-Methylnaphthalene	1600		100	210	210	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	92.193		18-112		61	SPK: -150
13127-88-3	Phenol-d6	86.494		15-107		58	SPK: -150
4165-60-0	Nitrobenzene-d5	59.077		18-107		59	SPK: -100
321-60-8	2-Fluorobiphenyl	61.22		20-109		61	SPK: -100
118-79-6	2,4,6-Tribromophenol	93.276		10-110		62	SPK: -150
1718-51-0	Terphenyl-d14	51.268		14-112		51	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	138592	6.728				
1146-65-2	Naphthalene-d8	536521	8.01				
15067-26-2	Acenaphthene-d10	295943	9.763				
1517-22-2	Phenanthrene-d10	489773	11.245				
1719-03-5	Chrysene-d12	287762	13.88				
1520-96-3	Perylene-d12	316787	15.298				



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMS	SDG No.:	BF031924
Lab Sample ID:	P1616-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137648.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMSD	SDG No.:	BF031924
Lab Sample ID:	P1616-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.06 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
BF137649.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1500		110	340	410	ug/Kg
110-86-1	Pyridine	1400		100	160	210	ug/Kg
100-52-7	Benzaldehyde	540		230	340	410	ug/Kg
62-53-3	Aniline	940		120	160	210	ug/Kg
108-95-2	Phenol	1600		100	160	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		110	160	210	ug/Kg
95-57-8	2-Chlorophenol	1700		100	160	210	ug/Kg
95-50-1	1,2-Dichlorobenzene	1800		110	160	210	ug/Kg
541-73-1	1,3-Dichlorobenzene	1700		110	160	210	ug/Kg
106-46-7	1,4-Dichlorobenzene	1700		110	160	210	ug/Kg
100-51-6	Benzyl Alcohol	1800		100	340	410	ug/Kg
95-48-7	2-Methylphenol	1500		100	160	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		110	160	210	ug/Kg
98-86-2	Acetophenone	1700		110	160	210	ug/Kg
65794-96-9	3+4-Methylphenols	1600		100	340	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		50.7	100	100	ug/Kg
67-72-1	Hexachloroethane	1800		100	160	210	ug/Kg
98-95-3	Nitrobenzene	1600		110	160	210	ug/Kg
78-59-1	Isophorone	1600		110	160	210	ug/Kg
88-75-5	2-Nitrophenol	1800		120	160	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1300		120	160	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		110	160	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		94.9	160	210	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1700		110	160	210	ug/Kg
65-85-0	Benzoic acid	1500		300	340	410	ug/Kg
91-20-3	Naphthalene	1600		100	160	210	ug/Kg
106-47-8	4-Chloroaniline	610		100	160	210	ug/Kg
87-68-3	Hexachlorobutadiene	1700		100	160	210	ug/Kg
105-60-2	Caprolactam	1800		110	340	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		97.4	160	210	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMSD	SDG No.:	BF031924
Lab Sample ID:	P1616-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.06 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
BF137649.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	2400		200	340	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		89.7	160	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		93	160	210	ug/Kg
92-52-4	1,1-Biphenyl	1600		110	160	210	ug/Kg
91-58-7	2-Chloronaphthalene	1700		100	160	210	ug/Kg
88-74-4	2-Nitroaniline	1700		120	160	210	ug/Kg
131-11-3	Dimethylphthalate	1600		100	160	210	ug/Kg
208-96-8	Acenaphthylene	1700		110	160	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		100	160	210	ug/Kg
99-09-2	3-Nitroaniline	980		110	160	210	ug/Kg
83-32-9	Acenaphthene	1600		100	160	210	ug/Kg
Total PAH	Total PAH	25500		1658.1	160	3360	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		310	340	410	ug/Kg
100-02-7	4-Nitrophenol	3300		150	340	410	ug/Kg
132-64-9	Dibenzofuran	1600		110	160	210	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	3500		210	160	420	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		110	160	210	ug/Kg
84-66-2	Diethylphthalate	1700		100	160	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		110	160	210	ug/Kg
86-73-7	Fluorene	1600		110	160	210	ug/Kg
100-01-6	4-Nitroaniline	1600		130	160	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		150	340	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	160	210	ug/Kg
103-33-3	Azobenzene	1500		100	160	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		99.2	160	210	ug/Kg
118-74-1	Hexachlorobenzene	1800		110	160	210	ug/Kg
1912-24-9	Atrazine	1800		110	160	210	ug/Kg
87-86-5	Pentachlorophenol	3100		97.2	340	410	ug/Kg
85-01-8	Phenanthrene	1600		110	160	210	ug/Kg
120-12-7	Anthracene	1600		110	160	210	ug/Kg
86-74-8	Carbazole	1700		100	160	210	ug/Kg
84-74-2	Di-n-butylphthalate	1800		110	160	210	ug/Kg
206-44-0	Fluoranthene	1600		100	160	210	ug/Kg

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMSD	SDG No.:	BF031924
Lab Sample ID:	P1616-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.06 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
BF137649.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	2700		200	340	410	ug/Kg
129-00-0	Pyrene	1500		100	160	210	ug/Kg
85-68-7	Butylbenzylphthalate	2300		120	160	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		120	340	410	ug/Kg
56-55-3	Benzo(a)anthracene	1600		100	160	210	ug/Kg
218-01-9	Chrysene	1600		99.9	160	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		110	160	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		140	340	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		100	160	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		100	160	210	ug/Kg
50-32-8	Benzo(a)pyrene	1600		120	160	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		98.2	160	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		100	160	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		100	160	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		110	160	210	ug/Kg
123-91-1	1,4-Dioxane	1500		140	160	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		93.9	160	210	ug/Kg
90-12-0	1-Methylnaphthalene	1600		100	210	210	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	90.266		18-112		60	SPK: -150
13127-88-3	Phenol-d6	86.514		15-107		58	SPK: -150
4165-60-0	Nitrobenzene-d5	57.7		18-107		58	SPK: -100
321-60-8	2-Fluorobiphenyl	58.266		20-109		58	SPK: -100
118-79-6	2,4,6-Tribromophenol	93.195		10-110		62	SPK: -150
1718-51-0	Terphenyl-d14	51.61		14-112		52	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	153367	6.728				
1146-65-2	Naphthalene-d8	609493	8.01				
15067-26-2	Acenaphthene-d10	344335	9.763				
1517-22-2	Phenanthrene-d10	591126	11.245				
1719-03-5	Chrysene-d12	339164	13.88				
1520-96-3	Perylene-d12	358824	15.304				



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	146-BAY-AVENUEMSD	SDG No.:	BF031924
Lab Sample ID:	P1616-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	20.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BF137649.D	1	3/19/2024 12:00:00 AM	3/19/2024 12:00:00 AM	PB159655

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Hit Summary Sheet
SW-846

SDG No.: BF031924

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	146-BAY-AVENUE							
P1616-03	146-BAY-AVENUE	Solid	n-Hexadecanoic acid	*	85.600	J		
			Total Tics :			85.60		
			Total Concentration:			85.60		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF022924

SAS No.: BF022924

SDG No.: BF022924

Instrument ID: _____

Calibration Date(s): 2/29/2024 : _____

Calibration Time(s): 12:44 : _____

LAB FILE ID:		RRF2.5 = BF137439.D			RRF005 = BF137440.D		RRF010 = BF137441.D	
		RRF020 = BF137442.D			RRF040 = BF137443.D		RRF050 = BF137444.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine			0.425	0.628	0.700	0.710	0.652	17.9
Pyridine		1.361	1.529	1.895	1.910	1.832	1.741	12.2
2-Fluorophenol		1.221	1.350	1.475	1.380	1.318	1.321	7.1
Benzaldehyde		0.824	0.936	1.041	1.001	0.950	0.934	8.1
Aniline		2.090	2.322	2.553	2.462	2.343	2.329	6.8
Phenol-d6		1.987	2.007	2.095	1.924	1.832	1.906	7.4
Phenol		2.046	2.142	2.271	2.125	2.004	2.052	7.5
bis(2-Chloroethyl)ether		1.600	1.380	1.546	1.577	1.523	1.503	5.4
2-Chlorophenol		1.432	1.462	1.537	1.417	1.354	1.393	7.4
1,2-Dichlorobenzene		1.533	1.522	1.553	1.399	1.334	1.398	10.6
1,3-Dichlorobenzene		1.559	1.559	1.620	1.505	1.437	1.488	6.9
1,4-Dichlorobenzene		1.659	1.572	1.670	1.544	1.449	1.523	8.2
Benzyl Alcohol		1.046	1.221	1.364	1.272	1.190	1.187	9.6
2-Methylphenol		1.299	1.348	1.410	1.325	1.277	1.303	5.3
2,2-oxybis(1-Chloropropane)		2.765	2.745	2.815	2.596	2.486	2.584	8.1
Acetophenone		0.508	0.525	0.540	0.480	0.467	0.484	9.2
3+4-Methylphenols		1.518	1.665	1.745	1.509	1.408	1.493	11.8
n-Nitroso-di-n-propylamine	1.240	1.246	1.252	1.290	1.161	1.097	1.177	7.9
Nitrobenzene-d5		0.418	0.437	0.471	0.441	0.427	0.430	5.4
Hexachloroethane		0.497	0.502	0.546	0.513	0.493	0.501	5.1
Nitrobenzene		0.406	0.434	0.465	0.440	0.439	0.432	4.7
Isophorone		0.816	0.831	0.862	0.820	0.807	0.818	3.3
2-Nitrophenol		0.140	0.162	0.182	0.178	0.183	0.172	9.2
2,4-Dimethylphenol		0.312	0.330	0.351	0.327	0.319	0.321	5.7
bis(2-Chloroethoxy)methane		0.465	0.498	0.522	0.488	0.476	0.480	5.5
2,4-Dichlorophenol		0.279	0.296	0.322	0.302	0.297	0.294	5.4
1,2,4-Trichlorobenzene		0.323	0.326	0.332	0.310	0.302	0.310	6.3
Benzoic acid			0.123	0.141	0.165	0.182	0.167	17.9
Naphthalene		1.163	1.163	1.192	1.058	1.028	1.073	9.7
4-Chloroaniline		0.369	0.430	0.467	0.444	0.430	0.421	8.4
Hexachlorobutadiene		0.191	0.191	0.195	0.184	0.177	0.183	5.7
Caprolactam		0.095	0.096	0.104	0.102	0.102	0.100	3.8
4-Chloro-3-methylphenol		0.328	0.335	0.354	0.336	0.325	0.329	4.6
2-Methylnaphthalene		0.732	0.748	0.760	0.684	0.654	0.684	9.8
Hexachlorocyclopentadiene			0.084	0.141	0.190	0.211	0.180	31.6
2,4,6-Trichlorophenol		0.355	0.355	0.387	0.375	0.364	0.364	3.8

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.: BF022924

SAS No.: BF022924

SDG No.: BF022924

Instrument ID: _____

Calibration Date(s): 2/29/2024 : _____

Calibration Time(s): 12:44 : _____

LAB FILE ID:		RRF2.5 = BF137439.D		RRF005 = BF137440.D		RRF010 = BF137441.D		
		RRF020 = BF137442.D		RRF040 = BF137443.D		RRF050 = BF137444.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.509	1.467	1.412	1.240	1.157	1.278	14.5
2,4,5-Trichlorophenol		0.413	0.398	0.464	0.428	0.417	0.419	5.5
1,1-Biphenyl		1.595	1.586	1.619	1.465	1.379	1.464	9.8
2-Chloronaphthalene		1.192	1.170	1.217	1.122	1.067	1.116	7.4
2-Nitroaniline		0.289	0.345	0.399	0.402	0.411	0.379	12.1
Dimethylphthalate		1.476	1.481	1.498	1.378	1.327	1.392	6.8
Acenaphthylene		1.993	1.932	1.981	1.798	1.679	1.786	11.0
2,6-Dinitrotoluene		0.270	0.283	0.315	0.300	0.292	0.291	5.1
3-Nitroaniline		0.269	0.291	0.311	0.329	0.323	0.308	7.1
Acenaphthene		1.175	1.160	1.179	1.057	0.997	1.066	10.0
2,4-Dinitrophenol			0.044	0.088	0.122	0.131	0.111	34.5
4-Nitrophenol			0.104	0.181	0.206	0.216	0.190	23.6
Dibenzofuran		1.816	1.800	1.834	1.615	1.513	1.624	12.3
2,4-Dinitrotoluene		0.310	0.356	0.397	0.378	0.370	0.358	8.2
Diethylphthalate		1.401	1.415	1.438	1.311	1.250	1.315	8.3
4-Chlorophenyl-phenylether		0.701	0.682	0.674	0.589	0.564	0.611	12.0
Fluorene		1.447	1.420	1.402	1.211	1.129	1.247	14.0
4-Nitroaniline		0.217	0.238	0.296	0.273	0.277	0.265	10.5
4,6-Dinitro-2-methylphenol			0.080	0.107	0.117	0.121	0.111	14.7
n-Nitrosodiphenylamine		0.669	0.687	0.699	0.636	0.625	0.644	6.6
Azobenzene		1.617	1.602	1.647	1.524	1.452	1.514	7.7
2,4,6-Tribromophenol		0.169	0.174	0.187	0.175	0.173	0.176	3.3
4-Bromophenyl-phenylether		0.213	0.219	0.236	0.221	0.216	0.218	4.3
Hexachlorobenzene		0.225	0.225	0.233	0.217	0.217	0.220	4.1
Atrazine		0.190	0.199	0.214	0.197	0.195	0.196	4.8
Pentachlorophenol			0.105	0.133	0.139	0.142	0.133	10.7
Phenanthrene		1.206	1.195	1.203	1.058	1.036	1.088	10.4
Anthracene		1.203	1.195	1.248	1.088	1.085	1.118	9.1
Carbazole		0.998	1.027	1.062	0.952	0.931	0.958	8.4
Di-n-butylphthalate		1.192	1.203	1.255	1.140	1.116	1.139	7.6
Fluoranthene		1.208	1.167	1.185	1.030	1.005	1.064	11.6
Benzidine			0.375	0.497	0.568	0.541	0.489	14.4
Pyrene		1.874	1.929	2.096	2.064	1.969	1.962	4.9
Terphenyl-d14		1.470	1.472	1.534	1.490	1.441	1.454	4.2
Butylbenzylphthalate		0.405	0.441	0.506	0.527	0.540	0.501	11.4
3,3-Dichlorobenzidine		0.274	0.318	0.390	0.417	0.398	0.373	14.8

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.: BF022924

SAS No.: BF022924

SDG No.: BF022924

Instrument ID: _____

Calibration Date(s): 2/29/2024 : _____

Calibration Time(s): 12:44 : _____

LAB FILE ID:		RRF2.5 = BF137439.D			RRF005 = BF137440.D		RRF010 = BF137441.D	
		RRF020 = BF137442.D			RRF040 = BF137443.D		RRF050 = BF137444.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.401	1.405	1.519	1.416	1.380	1.402	4.6
Chrysene		1.427	1.407	1.493	1.447	1.384	1.417	3.1
Bis(2-ethylhexyl)phthalate		0.540	0.560	0.655	0.677	0.668	0.637	9.6
Di-n-octyl phthalate			0.808	0.979	1.196	1.170	1.120	17.1
Benzo(b)fluoranthene		1.181	1.174	1.292	1.200	1.166	1.183	5.0
Benzo(k)fluoranthene		1.372	1.359	1.352	1.231	1.217	1.271	7.2
Benzo(a)pyrene		1.115	1.144	1.249	1.210	1.165	1.166	4.5
Indeno(1,2,3-cd)pyrene		1.135	1.258	1.395	1.392	1.355	1.316	7.2
Dibenzo(a,h)anthracene		0.901	1.008	1.134	1.134	1.101	1.068	8.2
Benzo(g,h,i)perylene		0.943	1.030	1.171	1.162	1.132	1.096	7.6
1,2,4,5-Tetrachlorobenzene		0.576	0.584	0.609	0.563	0.543	0.558	6.5
1,4-Dioxane		0.715	0.716	0.764	0.742	0.710	0.722	3.5
2,3,4,6-Tetrachlorophenol		0.336	0.346	0.363	0.341	0.329	0.336	5.0
1-Methylnaphthalene		0.704	0.710	0.718	0.635	0.605	0.644	10.5

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: CHEMTECHLab Code: CHEM Case No.: BF031924 SAS No.: BF031924 SDG NO.: BF031924EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 19 2024 12:00AMLab File ID: BF137443.D Time Analyzed: 12:13Instrument 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	211004	6.804	833843	8.08	463807	9.84
UPPER LIMIT	422008	7.304	1667686	8.581	927614	10.339
LOWER LIMIT	105502	6.304	416921.5	7.581	231903.5	9.339
EPA SAMPLE NO.						
01 PB159643BL	211538	6.73	817624	8.00	436011	9.76
02 PB159643BS	185994	6.73	710548	8.01	370315	9.76
03 PB159643BSD	182793	6.73	716944	8.01	371097	9.76
04 PB159655BL	206459	6.73	818224	8.00	435382	9.76
05 PB159655BS	193964	6.73	777713	8.01	407622	9.76
06 146-BAY-AVENUE	124293	6.73	478942	8.00	257962	9.76
07 146-BAY-AVENUEMS	138592	6.73	536521	8.01	295943	9.76
08 146-BAY-AVENUEMSD	153367	6.73	609493	8.01	344335	9.76

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECHLab Code: CHEM Case No.: BF031924 SAS No.: BF031924 SDG NO.: BF031924EPA Sample No.: SSTDCCC040 Date Analyzed: Mar 19 2024 12:00AMLab File ID: BF137641.D Time Analyzed: 12:13Instrument 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	166437	6.728	631380	8.01	340612	9.76
UPPER LIMIT	332874	7.228	1262760	8.51	681224	10.263
LOWER LIMIT	83218.5	6.228	315690	7.51	170306	9.263
EPA SAMPLE NO.						
01 PB159643BL	211538	6.73	817624	8.00	436011	9.76
02 PB159643BS	185994	6.73	710548	8.01	370315	9.76
03 PB159643BSD	182793	6.73	716944	8.01	371097	9.76
04 PB159655BL	206459	6.73	818224	8.00	435382	9.76
05 PB159655BS	193964	6.73	777713	8.01	407622	9.76
06 146-BAY-AVENUE	124293	6.73	478942	8.00	257962	9.76
07 146-BAY-AVENUEMS	138592	6.73	536521	8.01	295943	9.76
08 146-BAY-AVENUEMSD	153367	6.73	609493	8.01	344335	9.76

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF031924 SAS No.: BF031924 SDG NO.: BF031924

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 19 2024 12:00AM

Lab File ID: BF137443.D Time Analyzed: 12:13

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	794722	11.328	399789	13.986	384521	15.486
UPPER LIMIT	1589444	11.828	799578	14.486	769042	15.986
LOWER LIMIT	397361	10.828	199894.5	13.486	192260.5	14.986
EPA SAMPLE NO.						
01 PB159643BL	756396	11.24	467146	13.87	399215	15.30
02 PB159643BS	639032	11.25	379612	13.88	357746	15.30
03 PB159643BSD	641577	11.25	378563	13.88	347460	15.30
04 PB159655BL	749421	11.24	476432	13.87	401313	15.30
05 PB159655BS	696905	11.25	407778	13.88	373321	15.30
06 146-BAY-AVENUE	420952	11.24	275328	13.87	274382	15.30
07 146-BAY-AVENUEMS	489773	11.25	287762	13.88	316787	15.30
08 146-BAY-AVENUEMSD	591126	11.25	339164	13.88	358824	15.30

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF031924 SAS No.: BF031924 SDG NO.: BF031924

EPA Sample No.: SSTDCCC040 Date Analyzed: Mar 19 2024 12:00AM

Lab File ID: BF137641.D Time Analyzed: 12:13

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	555171	11.245	339483	13.88	324753	15.298
UPPER LIMIT	1110342	11.745	678966	14.38	649506	15.798
LOWER LIMIT	277585.5	10.745	169741.5	13.38	162376.5	14.798
EPA SAMPLE NO.						
01 PB159643BL	756396	11.24	467146	13.87	399215	15.30
02 PB159643BS	639032	11.25	379612	13.88	357746	15.30
03 PB159643BSD	641577	11.25	378563	13.88	347460	15.30
04 PB159655BL	749421	11.24	476432	13.87	401313	15.30
05 PB159655BS	696905	11.25	407778	13.88	373321	15.30
06 146-BAY-AVENUE	420952	11.24	275328	13.87	274382	15.30
07 146-BAY-AVENUEMS	489773	11.25	287762	13.88	316787	15.30
08 146-BAY-AVENUEMSD	591126	11.25	339164	13.88	358824	15.30

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.: BF031924

Client: _____

Analytical Method: 8270E

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB159643BS	n-Nitrosodimethylamine	50	40.9	ug/L	82					55	108	
	Pyridine	50	31.5	ug/L	63					29	97	
	Benzaldehyde	50	31	ug/L	62					15	121	
	Aniline	50	20.1	ug/L	40					10	130	
	Phenol	50	40.9	ug/L	82					66	118	
	bis(2-Chloroethyl)ether	50	42.3	ug/L	85					62	103	
	2-Chlorophenol	50	45.3	ug/L	91					70	117	
	1,2-Dichlorobenzene	50	45.6	ug/L	91					72	102	
	1,3-Dichlorobenzene	50	44.7	ug/L	89					71	103	
	1,4-Dichlorobenzene	50	44.6	ug/L	89					76	103	
	Benzyl Alcohol	50	48.2	ug/L	96		*			36	93	
	2-Methylphenol	50	39.9	ug/L	80					69	109	
	2,2-oxybis(1-Chloropropane)	50	38.4	ug/L	77					52	103	
	Acetophenone	50	45	ug/L	90					60	104	
	3+4-Methylphenols	50	39.9	ug/L	80					67	106	
	N-Nitroso-di-n-propylamine	50	39.1	ug/L	78					57	107	
	Hexachloroethane	50	45.9	ug/L	92					76	118	
	Nitrobenzene	50	42.6	ug/L	85					58	106	
	Isophorone	50	42.5	ug/L	85					61	102	
	2-Nitrophenol	50	48.7	ug/L	97					70	115	
	2,4-Dimethylphenol	50	37.8	ug/L	76					67	130	
	bis(2-Chloroethoxy)methane	50	43.3	ug/L	87					58	109	
	2,4-Dichlorophenol	50	45.3	ug/L	91					66	115	
	1,2,4-Trichlorobenzene	50	46.2	ug/L	92					41	115	
	Benzoic acid	50	43.3	ug/L	87					10	125	
	Naphthalene	50	42.9	ug/L	86					64	107	
	4-Chloroaniline	50	12.4	ug/L	25					10	85	
	Hexachlorobutadiene	50	46.1	ug/L	92					69	101	
	Caprolactam	50	42.7	ug/L	85					58	128	
	4-Chloro-3-methylphenol	50	44.4	ug/L	89					65	114	
	2-Methylnaphthalene	50	41.2	ug/L	82					64	107	
	Hexachlorocyclopentadiene	100	83.9	ug/L	84					36	160	
	2,4,6-Trichlorophenol	50	47.4	ug/L	95					61	110	
	2,4,5-Trichlorophenol	50	44.8	ug/L	90					70	106	
	1,1-Biphenyl	50	45.7	ug/L	91					72	98	
	2-Chloronaphthalene	50	47.4	ug/L	95					59	106	
	2-Nitroaniline	50	47.4	ug/L	95					58	107	
	Dimethylphthalate	50	45.3	ug/L	91					64	103	
	Acenaphthylene	50	46.4	ug/L	93					65	108	
	2,6-Dinitrotoluene	50	47.8	ug/L	96					64	110	
	3-Nitroaniline	50	27	ug/L	54					28	100	
	Acenaphthene	50	43.3	ug/L	87					59	113	
	Total PAH	800	700	ug/L	88					59	113	
	2,4-Dinitrophenol	100	92.3	ug/L	92					64	132	
	4-Nitrophenol	100	81.9	ug/L	82					68	116	
	Dibenzofuran	50	43.2	ug/L	86					65	106	



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

SDG No.: BF031924

Client:

Analytical Method: 8270E

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159643BS	2,4-Dinitrotoluene	50	48.3	ug/L	97				60	115	
	2,4-Dinitrotoluene/2,6-Dinitrotr	100	96.1	ug/L	96				60	115	
	Diethylphthalate	50	44.3	ug/L	89				63	105	
	4-Chlorophenyl-phenylether	50	43.5	ug/L	87				61	104	
	Fluorene	50	43.4	ug/L	87				64	107	
	4-Nitroaniline	50	44.1	ug/L	88				69	112	
	4,6-Dinitro-2-methylphenol	50	51.8	ug/L	104				62	132	
	N-Nitrosodiphenylamine	50	43.8	ug/L	88				61	109	
	Azobenzene	50	42	ug/L	84				59	106	
	4-Bromophenyl-phenylether	50	45.4	ug/L	91				73	103	
	Hexachlorobenzene	50	48.5	ug/L	97				73	106	
	Atrazine	50	41.6	ug/L	83				76	120	
	Pentachlorophenol	100	85.4	ug/L	85				47	114	
	Phenanthrene	50	42.6	ug/L	85				62	109	
	Anthracene	50	42.6	ug/L	85				65	110	
	Carbazole	50	43.9	ug/L	88				62	106	
	Di-n-butylphthalate	50	44.8	ug/L	90				64	106	
	Fluoranthene	50	43.3	ug/L	87				64	110	
	Benzidine	100	16.9	ug/L	17				10	94	
	Pyrene	50	39.7	ug/L	79				71	103	
	Butylbenzylphthalate	50	59.1	ug/L	118		*		61	105	
	3,3-Dichlorobenzidine	50	39.7	ug/L	79				43	108	
	Benzo(a)anthracene	50	42.9	ug/L	86				62	107	
	Chrysene	50	43.1	ug/L	86				61	108	
	bis(2-Ethylhexyl)phthalate	50	59	ug/L	118		*		59	110	
	Di-n-octyl phthalate	50	50.6	ug/L	101				67	126	
	Benzo(b)fluoranthene	50	49.8	ug/L	100				77	113	
	Benzo(k)fluoranthene	50	43.4	ug/L	87				64	113	
	Benzo(a)pyrene	50	44.6	ug/L	89				72	131	
	Indeno(1,2,3-cd)pyrene	50	44.3	ug/L	89				72	105	
	Dibenz(a,h)anthracene	50	44.7	ug/L	89				78	115	
	Benzo(g,h,i)perylene	50	43	ug/L	86				75	118	
	1,2,4,5-Tetrachlorobenzene	50	48.4	ug/L	97				72	101	
	1,4-Dioxane	50	35	ug/L	70				38	125	
	2,3,4,6-Tetrachlorophenol	50	46	ug/L	92				63	116	
	1-Methylnaphthalene	50	41.7	ug/L	83				51	114	
PB159643BSD	n-Nitrosodimethylamine	50	39.8	ug/L	80	3			55	108	20
	Pyridine	50	31.3	ug/L	63	1			29	97	20
	Benzaldehyde	50	33	ug/L	66	6			15	121	20
	Aniline	50	19.7	ug/L	39	2			10	130	20
	Phenol	50	40.2	ug/L	80	2			66	118	20
	bis(2-Chloroethyl)ether	50	42.3	ug/L	85	0			62	103	20
	2-Chlorophenol	50	44.2	ug/L	88	2			70	117	20
	1,2-Dichlorobenzene	50	45.2	ug/L	90	1			72	102	20
	1,3-Dichlorobenzene	50	44	ug/L	88	2			71	103	20
	1,4-Dichlorobenzene	50	44.2	ug/L	88	1			76	103	20



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

SDG No.: BF031924

Client: _____

Analytical Method: **8270E**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB159643BSD	Benzyl Alcohol	50	47.2	ug/L	94	2	*		36	93	20
	2-Methylphenol	50	39.3	ug/L	79	2			69	109	20
	2,2-oxybis(1-Chloropropane)	50	37.5	ug/L	75	2			52	103	20
	Acetophenone	50	43.6	ug/L	87	3			60	104	20
	3+4-Methylphenols	50	39.6	ug/L	79	1			67	106	20
	N-Nitroso-di-n-propylamine	50	38.8	ug/L	78	1			57	107	20
	Hexachloroethane	50	45.5	ug/L	91	1			76	118	20
	Nitrobenzene	50	41.6	ug/L	83	2			58	106	20
	Isophorone	50	40.8	ug/L	82	4			61	102	20
	2-Nitrophenol	50	47.7	ug/L	95	2			70	115	20
	2,4-Dimethylphenol	50	36.5	ug/L	73	3			67	130	20
	bis(2-Chloroethoxy)methane	50	41.9	ug/L	84	3			58	109	20
	2,4-Dichlorophenol	50	44.1	ug/L	88	3			66	115	20
	1,2,4-Trichlorobenzene	50	44.7	ug/L	89	3			41	115	20
	Benzoic acid	50	42.4	ug/L	85	2			10	125	20
	Naphthalene	50	41.8	ug/L	84	3			64	107	20
	4-Chloroaniline	50	12.8	ug/L	26	3			10	85	20
	Hexachlorobutadiene	50	44.8	ug/L	90	3			69	101	20
	Caprolactam	50	40.3	ug/L	81	6			58	128	20
	4-Chloro-3-methylphenol	50	42.2	ug/L	84	5			65	114	20
	2-Methylnaphthalene	50	39.9	ug/L	80	3			64	107	20
	Hexachlorocyclopentadiene	100	83.7	ug/L	84	0			36	160	20
	2,4,6-Trichlorophenol	50	47	ug/L	94	1			61	110	20
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	6			70	106	20
	1,1-Biphenyl	50	45	ug/L	90	2			72	98	20
	2-Chloronaphthalene	50	45.9	ug/L	92	3			59	106	20
	2-Nitroaniline	50	46.5	ug/L	93	2			58	107	20
	Dimethylphthalate	50	44.4	ug/L	89	2			64	103	20
	Acenaphthylene	50	45	ug/L	90	3			65	108	20
	2,6-Dinitrotoluene	50	46.8	ug/L	94	2			64	110	20
	3-Nitroaniline	50	27.4	ug/L	55	1			28	100	20
	Acenaphthene	50	42.8	ug/L	86	1			59	113	20
	Total PAH	800	688	ug/L	86	2			59	113	20
	2,4-Dinitrophenol	100	91.5	ug/L	92	1			64	132	20
	4-Nitrophenol	100	81.4	ug/L	81	1			68	116	20
	Dibenzofuran	50	42.5	ug/L	85	2			65	106	20
	2,4-Dinitrotoluene	50	47.6	ug/L	95	1			60	115	20
	2,4-Dinitrotoluene/2,6-Dinitro	100	94.4	ug/L	94	2			60	115	20
	Diethylphthalate	50	44.1	ug/L	88	0			63	105	20
	4-Chlorophenyl-phenylether	50	42.7	ug/L	85	2			61	104	20
	Fluorene	50	42.2	ug/L	84	3			64	107	20
	4-Nitroaniline	50	42.8	ug/L	86	3			69	112	20
	4,6-Dinitro-2-methylphenol	50	50.5	ug/L	101	3			62	132	20
	N-Nitrosodiphenylamine	50	42.9	ug/L	86	2			61	109	20
	Azobenzene	50	40.6	ug/L	81	3			59	106	20
	4-Bromophenyl-phenylether	50	44.1	ug/L	88	3			73	103	20



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

SDG No.: BF031924

Client:

Analytical Method: 8270E

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159643BSD	Hexachlorobenzene	50	48.2	ug/L	96	1			73	106	20
	Atrazine	50	41.4	ug/L	83	0			76	120	20
	Pentachlorophenol	100	83.3	ug/L	83	2			47	114	20
	Phenanthrene	50	41.9	ug/L	84	2			62	109	20
	Anthracene	50	41.9	ug/L	84	2			65	110	20
	Carbazole	50	42.9	ug/L	86	2			62	106	20
	Di-n-butylphthalate	50	43.8	ug/L	88	2			64	106	20
	Fluoranthene	50	42.3	ug/L	85	2			64	110	20
	Benzidine	100	19.3	ug/L	19	13			10	94	20
	Pyrene	50	39.5	ug/L	79	1			71	103	20
	Butylbenzylphthalate	50	58.3	ug/L	117	1	*		61	105	20
	3,3-Dichlorobenzidine	50	39.7	ug/L	79	0			43	108	20
	Benzo(a)anthracene	50	42.4	ug/L	85	1			62	107	20
	Chrysene	50	42.8	ug/L	86	1			61	108	20
	bis(2-Ethylhexyl)phthalate	50	59.1	ug/L	118	0	*		59	110	20
	Di-n-octyl phthalate	50	50.6	ug/L	101	0			67	126	20
	Benzo(b)fluoranthene	50	49.4	ug/L	99	1			77	113	20
	Benzo(k)fluoranthene	50	43	ug/L	86	1			64	113	20
	Benzo(a)pyrene	50	44.5	ug/L	89	0			72	131	20
	Indeno(1,2,3-cd)pyrene	50	43.6	ug/L	87	2			72	105	20
	Dibenz(a,h)anthracene	50	43.2	ug/L	86	3			78	115	20
	Benzo(g,h,i)perylene	50	41.7	ug/L	83	3			75	118	20
	1,2,4,5-Tetrachlorobenzene	50	47.7	ug/L	95	1			72	101	20
	1,4-Dioxane	50	34.4	ug/L	69	2			38	125	20
	2,3,4,6-Tetrachlorophenol	50	46.3	ug/L	93	1			63	116	20
	1-Methylnaphthalene	50	40.4	ug/L	81	3			51	114	20



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

SDG No.: BF031924

Client: _____

Analytical Method: 8270E

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159655BS	n-Nitrosodimethylamine	1700	1400	ug/Kg	82				57	103	
	Pyridine	1700	1100	ug/Kg	65				28	98	
	Benzaldehyde	1700	510	ug/Kg	30				10	147	
	Aniline	1700	660	ug/Kg	39				38	100	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	1,2-Dichlorobenzene	1700	1600	ug/Kg	94				51	102	
	1,3-Dichlorobenzene	1700	1500	ug/Kg	88				52	99	
	1,4-Dichlorobenzene	1700	1500	ug/Kg	88				52	100	
	Benzyl Alcohol	1700	1600	ug/Kg	94				42	116	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1700	ug/Kg	100				61	111	
	2,4-Dimethylphenol	1700	1300	ug/Kg	76				67	119	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				53	105	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	1,2,4-Trichlorobenzene	1700	1500	ug/Kg	88				44	110	
	Benzoic acid	1700	1500	ug/Kg	88				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	520	ug/Kg	31				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	134	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	1100	ug/Kg	65				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	Total PAH	27200	24100	ug/Kg	89				57	104	
	2,4-Dinitrophenol	3300	3300	ug/Kg	100				37	128	
	4-Nitrophenol	3300	2900	ug/Kg	88				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	



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

SDG No.: BF031924

Client: _____

Analytical Method: 8270E

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB159655BS	2,4-Dinitrotoluene/2,6-Dinitrotoluene	3400	3200	ug/Kg	94				60	106		
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				60	106		
	Diethylphthalate	1700	1500	ug/Kg	88				60	101		
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98		
	Fluorene	1700	1500	ug/Kg	88				61	101		
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103		
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				76	113		
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				56	107		
	Azobenzene	1700	1400	ug/Kg	82				54	103		
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				55	99		
	Hexachlorobenzene	1700	1700	ug/Kg	100		*		64	98		
	Atrazine	1700	1400	ug/Kg	82				67	113		
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105		
	Phenanthrene	1700	1400	ug/Kg	82				59	103		
	Anthracene	1700	1500	ug/Kg	88				61	105		
	Carbazole	1700	1500	ug/Kg	88				61	99		
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104		
	Fluoranthene	1700	1500	ug/Kg	88				57	107		
	Benzidine	3300	510	ug/Kg	15				10	98		
	Pyrene	1700	1400	ug/Kg	82				59	103		
	Butylbenzylphthalate	1700	2000	ug/Kg	118		*		55	103		
	3,3-Dichlorobenzidine	1700	1500	ug/Kg	88				42	91		
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102		
	Chrysene	1700	1500	ug/Kg	88				59	101		
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118		*		63	111		
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				70	108		
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109		
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109		
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103		
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101		
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112		
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108		
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101		
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96		
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108		
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130		



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159643BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF031924SAS No.: BF031924 SDG NO.: BF031924Lab File ID: BF137642.DLab Sample ID: PB159643BLInstrument ID: BNA_FDate Extracted: 03/18/2024Matrix: (soil/water) WaterDate Analyzed: 03/19/2024Level: (low/med) LOWTime Analyzed: 12:13

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB159643BS	PB159643BS	BF137643.D	03/19/2024
PB159643BSD	PB159643BSD	BF137644.D	03/19/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159655BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF031924SAS No.: BF031924 SDG NO.: BF031924Lab File ID: BF137645.DLab Sample ID: PB159655BLInstrument ID: BNA_FDate Extracted: 03/19/2024Matrix: (soil/water) SolidDate Analyzed: 03/19/2024Level: (low/med) LOWTime Analyzed: 13:40

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB159655BS	PB159655BS	BF137646.D	03/19/2024
146-BAY-AVENUE	P1616-03	BF137647.D	03/19/2024
146-BAY-AVENUEMS	P1616-03MS	BF137648.D	03/19/2024
146-BAY-AVENUEMSD	P1616-03MSD	BF137649.D	03/19/2024

COMMENTS: _____

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BF031924

Client: _____

Analytical Method: 8270E

		Sample				Rec	RPD		Limits		
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	P1616-03MS	Client Sample ID:	146-BAY-AVENUEMS			DataFile: BF137648.D					
n-Nitrosodimethylamine	2100		1500	ug/Kg	71				66	124	
Pyridine	2100		1400	ug/Kg	67				45	119	
Benzaldehyde	2100		530	ug/Kg	25	*			26	163	
Aniline	2100		980	ug/Kg	47				10	88	
Phenol	2100		1600	ug/Kg	76				67	126	
bis(2-Chloroethyl)ether	2100		1600	ug/Kg	76				74	116	
2-Chlorophenol	2100		1700	ug/Kg	81				61	138	
1,2-Dichlorobenzene	2100		1800	ug/Kg	86				61	105	
1,3-Dichlorobenzene	2100		1700	ug/Kg	81				62	101	
1,4-Dichlorobenzene	2100		1800	ug/Kg	86				63	104	
Benzyl Alcohol	2100		1800	ug/Kg	86				47	126	
2-Methylphenol	2100		1500	ug/Kg	71				66	122	
2,2-oxybis(1-Chloropropane)	2100		1500	ug/Kg	71				52	115	
Acetophenone	2100		1700	ug/Kg	81				75	111	
3+4-Methylphenols	2100		1600	ug/Kg	76				53	132	
N-Nitroso-di-n-propylamine	2100		1500	ug/Kg	71				59	119	
Hexachloroethane	2100		1800	ug/Kg	86				65	117	
Nitrobenzene	2100		1600	ug/Kg	76				70	119	
Isophorone	2100		1600	ug/Kg	76				76	122	
2-Nitrophenol	2100		1800	ug/Kg	86				54	145	
2,4-Dimethylphenol	2100		1400	ug/Kg	67	*			83	144	
bis(2-Chloroethoxy)methane	2100		1600	ug/Kg	76				68	112	
2,4-Dichlorophenol	2100		1700	ug/Kg	81				72	118	
1,2,4-Trichlorobenzene	2100		1800	ug/Kg	86				57	103	
Benzoic acid	2100		1400	ug/Kg	67				50	104	
Naphthalene	2100		1700	ug/Kg	81				72	110	
4-Chloroaniline	2100		620	ug/Kg	30				10	100	
Hexachlorobutadiene	2100		1800	ug/Kg	86				66	114	
Caprolactam	2100		1700	ug/Kg	81				51	134	
4-Chloro-3-methylphenol	2100		1700	ug/Kg	81				57	132	
2-Methylnaphthalene	2100		1600	ug/Kg	76				59	123	
Hexachlorocyclopentadiene	4200		2700	ug/Kg	64				10	175	
2,4,6-Trichlorophenol	2100		1700	ug/Kg	81				72	117	
2,4,5-Trichlorophenol	2100		1600	ug/Kg	76				72	117	
1,1-Biphenyl	2100		1700	ug/Kg	81				75	113	
2-Chloronaphthalene	2100		1800	ug/Kg	86				67	118	
2-Nitroaniline	2100		1800	ug/Kg	86				69	127	
Dimethylphthalate	2100		1700	ug/Kg	81				70	113	
Acenaphthylene	2100		1800	ug/Kg	86				79	118	
2,6-Dinitrotoluene	2100		1800	ug/Kg	86				70	125	
3-Nitroaniline	2100		1000	ug/Kg	48				20	111	
Acenaphthene	2100		1700	ug/Kg	81				70	121	
Total PAH	33600		26500	ug/Kg	79				70	121	
2,4-Dinitrophenol	4200		2600	ug/Kg	62				16	160	
4-Nitrophenol	4200		3200	ug/Kg	76				45	133	
Dibenzofuran	2100		1700	ug/Kg	81				72	110	
2,4-Dinitrotoluene	2100		1900	ug/Kg	90				55	128	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BF031924

Client: _____

Analytical Method: **8270E**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		
									Low	High	RPD
2,4-Dinitrotoluene/2,6-Dinitrotol	4200		3700	ug/Kg	88				55	128	
Diethylphthalate	2100		1700	ug/Kg	81				70	112	
4-Chlorophenyl-phenylether	2100		1700	ug/Kg	81				71	108	
Fluorene	2100		1700	ug/Kg	81				68	116	
4-Nitroaniline	2100		1600	ug/Kg	76				55	120	
4,6-Dinitro-2-methylphenol	2100		1700	ug/Kg	81				32	145	
N-Nitrosodiphenylamine	2100		1700	ug/Kg	81				73	118	
Azobenzene	2100		1600	ug/Kg	76				73	110	
4-Bromophenyl-phenylether	2100		1800	ug/Kg	86				65	121	
Hexachlorobenzene	2100		1900	ug/Kg	90				67	118	
Atrazine	2100		1900	ug/Kg	90				79	127	
Pentachlorophenol	4200		3100	ug/Kg	74				47	128	
Phenanthrene	2100		1700	ug/Kg	81				72	113	
Anthracene	2100		1700	ug/Kg	81				62	124	
Carbazole	2100		1700	ug/Kg	81				59	119	
Di-n-butylphthalate	2100		1800	ug/Kg	86				69	118	
Fluoranthene	2100		1600	ug/Kg	76				59	125	
Benzidine	4200		2600	ug/Kg	62				10	119	
Pyrene	2100		1500	ug/Kg	71				52	128	
Butylbenzylphthalate	2100		2200	ug/Kg	105				64	126	
3,3-Dichlorobenzidine	2100		1700	ug/Kg	81				10	164	
Benzo(a)anthracene	2100		1600	ug/Kg	76				71	114	
Chrysene	2100		1700	ug/Kg	81				57	121	
bis(2-Ethylhexyl)phthalate	2100		2300	ug/Kg	110				66	127	
Di-n-octyl phthalate	2100		1900	ug/Kg	90				71	126	
Benzo(b)fluoranthene	2100		1800	ug/Kg	86				67	121	
Benzo(k)fluoranthene	2100		1500	ug/Kg	71	*			74	114	
Benzo(a)pyrene	2100		1600	ug/Kg	76				70	142	
Indeno(1,2,3-cd)pyrene	2100		1700	ug/Kg	81				61	125	
Dibenz(a,h)anthracene	2100		1700	ug/Kg	81				67	130	
Benzo(g,h,i)perylene	2100		1500	ug/Kg	71				53	140	
1,2,4,5-Tetrachlorobenzene	2100		1800	ug/Kg	86				69	124	
1,4-Dioxane	2100		1500	ug/Kg	71				46	112	
2,3,4,6-Tetrachlorophenol	2100		1700	ug/Kg	81				56	133	
1-Methylnaphthalene	2100		1600	ug/Kg	76				70	130	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BF031924

Client: _____

Analytical Method: **8270E**

Parameter	Spike	Sample	Result	Units	Rec	Rec	RPD	RPD	Low	Limits	
		Result				Qual		Qual		High	RPD
Lab Sample ID:	P1616-03MSD	Client Sample ID:	146-BAY-AVENUEMSD				DataFile:	BF137649.D			
n-Nitrosodimethylamine	2100		1500	ug/Kg	71	0			66	124	20
Pyridine	2100		1400	ug/Kg	67	0			45	119	20
Benzaldehyde	2100		540	ug/Kg	26	4			26	163	20
Aniline	2100		940	ug/Kg	45	4			10	88	20
Phenol	2100		1600	ug/Kg	76	0			67	126	20
bis(2-Chloroethyl)ether	2100		1600	ug/Kg	76	0			74	116	20
2-Chlorophenol	2100		1700	ug/Kg	81	0			61	138	20
1,2-Dichlorobenzene	2100		1800	ug/Kg	86	0			61	105	20
1,3-Dichlorobenzene	2100		1700	ug/Kg	81	0			62	101	20
1,4-Dichlorobenzene	2100		1700	ug/Kg	81	6			63	104	20
Benzyl Alcohol	2100		1800	ug/Kg	86	0			47	126	20
2-Methylphenol	2100		1500	ug/Kg	71	0			66	122	20
2,2-oxybis(1-Chloropropane)	2100		1500	ug/Kg	71	0			52	115	20
Acetophenone	2100		1700	ug/Kg	81	0			75	111	20
3+4-Methylphenols	2100		1600	ug/Kg	76	0			53	132	20
N-Nitroso-di-n-propylamine	2100		1500	ug/Kg	71	0			59	119	20
Hexachloroethane	2100		1800	ug/Kg	86	0			65	117	20
Nitrobenzene	2100		1600	ug/Kg	76	0			70	119	20
Isophorone	2100		1600	ug/Kg	76	0			76	122	20
2-Nitrophenol	2100		1800	ug/Kg	86	0			54	145	20
2,4-Dimethylphenol	2100		1300	ug/Kg	62	*	8		83	144	20
bis(2-Chloroethoxy)methane	2100		1600	ug/Kg	76	0			68	112	20
2,4-Dichlorophenol	2100		1700	ug/Kg	81	0			72	118	20
1,2,4-Trichlorobenzene	2100		1700	ug/Kg	81	6			57	103	20
Benzoic acid	2100		1500	ug/Kg	71	6			50	104	20
Naphthalene	2100		1600	ug/Kg	76	6			72	110	20
4-Chloroaniline	2100		610	ug/Kg	29	3			10	100	20
Hexachlorobutadiene	2100		1700	ug/Kg	81	6			66	114	20
Caprolactam	2100		1800	ug/Kg	86	6			51	134	20
4-Chloro-3-methylphenol	2100		1700	ug/Kg	81	0			57	132	20
2-Methylnaphthalene	2100		1600	ug/Kg	76	0			59	123	20
Hexachlorocyclopentadiene	4200		2400	ug/Kg	57	12			10	175	20
2,4,6-Trichlorophenol	2100		1700	ug/Kg	81	0			72	117	20
2,4,5-Trichlorophenol	2100		1600	ug/Kg	76	0			72	117	20
1,1-Biphenyl	2100		1600	ug/Kg	76	6			75	113	20
2-Chloronaphthalene	2100		1700	ug/Kg	81	6			67	118	20
2-Nitroaniline	2100		1700	ug/Kg	81	6			69	127	20
Dimethylphthalate	2100		1600	ug/Kg	76	6			70	113	20
Acenaphthylene	2100		1700	ug/Kg	81	6			79	118	20
2,6-Dinitrotoluene	2100		1700	ug/Kg	81	6			70	125	20
3-Nitroaniline	2100		980	ug/Kg	47	2			20	111	20
Acenaphthene	2100		1600	ug/Kg	76	6			70	121	20
Total PAH	33600		25500	ug/Kg	76	4			70	121	20
2,4-Dinitrophenol	4200		2800	ug/Kg	67	8			16	160	20
4-Nitrophenol	4200		3300	ug/Kg	79	4			45	133	20
Dibenzofuran	2100		1600	ug/Kg	76	6			72	110	20
2,4-Dinitrotoluene	2100		1800	ug/Kg	86	5			55	128	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BF031924

Client: _____

Analytical Method: **8270E**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		
									Low	High	RPD
2,4-Dinitrotoluene/2,6-Dinitrotol	4200		3500	ug/Kg	83		6		55	128	20
Diethylphthalate	2100		1700	ug/Kg	81		0		70	112	20
4-Chlorophenyl-phenylether	2100		1600	ug/Kg	76		6		71	108	20
Fluorene	2100		1600	ug/Kg	76		6		68	116	20
4-Nitroaniline	2100		1600	ug/Kg	76		0		55	120	20
4,6-Dinitro-2-methylphenol	2100		1600	ug/Kg	76		6		32	145	20
N-Nitrosodiphenylamine	2100		1600	ug/Kg	76		6		73	118	20
Azobenzene	2100		1500	ug/Kg	71	*	7		73	110	20
4-Bromophenyl-phenylether	2100		1700	ug/Kg	81		6		65	121	20
Hexachlorobenzene	2100		1800	ug/Kg	86		5		67	118	20
Atrazine	2100		1800	ug/Kg	86		5		79	127	20
Pentachlorophenol	4200		3100	ug/Kg	74		0		47	128	20
Phenanthrene	2100		1600	ug/Kg	76		6		72	113	20
Anthracene	2100		1600	ug/Kg	76		6		62	124	20
Carbazole	2100		1700	ug/Kg	81		0		59	119	20
Di-n-butylphthalate	2100		1800	ug/Kg	86		0		69	118	20
Fluoranthene	2100		1600	ug/Kg	76		0		59	125	20
Benzidine	4200		2700	ug/Kg	64		3		10	119	20
Pyrene	2100		1500	ug/Kg	71		0		52	128	20
Butylbenzylphthalate	2100		2300	ug/Kg	110		5		64	126	20
3,3-Dichlorobenzidine	2100		1800	ug/Kg	86		6		10	164	20
Benzo(a)anthracene	2100		1600	ug/Kg	76		0		71	114	20
Chrysene	2100		1600	ug/Kg	76		6		57	121	20
bis(2-Ethylhexyl)phthalate	2100		2300	ug/Kg	110		0		66	127	20
Di-n-octyl phthalate	2100		2000	ug/Kg	95		5		71	126	20
Benzo(b)fluoranthene	2100		1700	ug/Kg	81		6		67	121	20
Benzo(k)fluoranthene	2100		1600	ug/Kg	76		7		74	114	20
Benzo(a)pyrene	2100		1600	ug/Kg	76		0		70	142	20
Indeno(1,2,3-cd)pyrene	2100		1600	ug/Kg	76		6		61	125	20
Dibenz(a,h)anthracene	2100		1600	ug/Kg	76		6		67	130	20
Benzo(g,h,i)perylene	2100		1400	ug/Kg	67		6		53	140	20
1,2,4,5-Tetrachlorobenzene	2100		1700	ug/Kg	81		6		69	124	20
1,4-Dioxane	2100		1500	ug/Kg	71		0		46	112	20
2,3,4,6-Tetrachlorophenol	2100		1600	ug/Kg	76		6		56	133	20
1-Methylnaphthalene	2100		1600	ug/Kg	76		0		70	130	20



Surrogate Summary
SW-846

SDG No.: BF031924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB159643BL	PB159643BL	BF137642.D	2-Fluorophenol	150	115.44	77		10	139
			Phenol-d6	150	105.91	71		10	134
			Nitrobenzene-d5	100	77.69	78		49	133
			2-Fluorobiphenyl	100	78.37	78		52	132
			2,4,6-Tribromophenol	150	129.33	86		32	145
			Terphenyl-d14	100	71.08	71		36	145
PB159643BS	PB159643BS	BF137643.D	2-Fluorophenol	150	122.70	82		10	139
			Phenol-d6	150	113.57	76		10	134
			Nitrobenzene-d5	100	81.67	82		49	133
			2-Fluorobiphenyl	100	86.30	86		52	132
			2,4,6-Tribromophenol	150	142.28	95		32	145
			Terphenyl-d14	100	78.10	78		36	145
PB159643BSD	PB159643BSD	BF137644.D	2-Fluorophenol	150	121.43	81		10	139
			Phenol-d6	150	110.93	74		10	134
			Nitrobenzene-d5	100	78.74	79		49	133
			2-Fluorobiphenyl	100	84.22	84		52	132
			2,4,6-Tribromophenol	150	144.81	97		32	145
			Terphenyl-d14	100	76.30	76		36	145



Surrogate Summary

SW-846

SDG No.: BF031924

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1616-03	146-BAY-AVENUEBF137647.D		2-Fluorophenol	150	117.53	78		18	112
			Phenol-d6	150	108.47	72		15	107
			Nitrobenzene-d5	100	73.86	74		18	107
			2-Fluorobiphenyl	100	77.09	77		20	109
			2,4,6-Tribromophenol	150	111.40	74		10	110
			Terphenyl-d14	100	58.28	58		14	112
P1616-03MS	146-BAY-AVENUEBF137648.D		2-Fluorophenol	150	92.19	61		18	112
			Phenol-d6	150	86.49	58		15	107
			Nitrobenzene-d5	100	59.08	59		18	107
			2-Fluorobiphenyl	100	61.22	61		20	109
			2,4,6-Tribromophenol	150	93.28	62		10	110
			Terphenyl-d14	100	51.27	51		14	112
P1616-03MSD	146-BAY-AVENUEBF137649.D		2-Fluorophenol	150	90.27	60		18	112
			Phenol-d6	150	86.51	58		15	107
			Nitrobenzene-d5	100	57.70	58		18	107
			2-Fluorobiphenyl	100	58.27	58		20	109
			2,4,6-Tribromophenol	150	93.20	62		10	110
			Terphenyl-d14	100	51.61	52		14	112
PB159655BL	PB159655BL	BF137645.D	2-Fluorophenol	150	117.79	79		18	112
			Phenol-d6	150	108.54	72		15	107
			Nitrobenzene-d5	100	76.03	76		18	107
			2-Fluorobiphenyl	100	78.36	78		20	109
			2,4,6-Tribromophenol	150	128.85	86		10	110
			Terphenyl-d14	100	69.45	69		14	112
PB159655BS	PB159655BS	BF137646.D	2-Fluorophenol	150	129.64	86		18	112
			Phenol-d6	150	119.77	80		15	107
			Nitrobenzene-d5	100	83.29	83		18	107
			2-Fluorobiphenyl	100	86.36	86		20	109
			2,4,6-Tribromophenol	150	151.38	101		10	110
			Terphenyl-d14	100	80.32	80		14	112



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BF031924Lab Code: CHEMSAS No.: BF031924 SDG NO.: BF031924Lab File ID: BF137640.DDFTPP Injection Date: 03/19/2024Instrument ID: BNA_FDFTPP Injection Time: 11:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.1
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	31.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	38.8
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	15.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (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
SSTDCCC040	SSTDCCC040	BF137641.D	03/19/2024	11:43
PB159643BL	PB159643BL	BF137642.D	03/19/2024	12:13
PB159643BS	PB159643BS	BF137643.D	03/19/2024	12:42
PB159643BSD	PB159643BSD	BF137644.D	03/19/2024	13:11
PB159655BL	PB159655BL	BF137645.D	03/19/2024	13:40
PB159655BS	PB159655BS	BF137646.D	03/19/2024	14:10
146-BAY-AVENUE	P1616-03	BF137647.D	03/19/2024	14:44
146-BAY-AVENUEMS	P1616-03MS	BF137648.D	03/19/2024	15:14
146-BAY-AVENUEMSD	P1616-03MSD	BF137649.D	03/19/2024	15:43