

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324

Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 11:25

Lab File ID: BG061003.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.951	0.813		-14.511	
Pyridine	1.058	0.922		-12.854	
2-Fluorophenol	0.989	0.920		-6.977	
Benzaldehyde	0.755	0.721		-4.503	
Aniline	1.763	1.709		-3.063	
Phenol-d6	1.467	1.410		-3.885	
Phenol	1.458	1.364		-6.447	20.0
bis(2-Chloroethyl) ether	1.043	0.974		-6.616	
2-Chlorophenol	1.232	1.219		-1.055	
1,2-Dichlorobenzene	1.375	1.356		-1.382	
1,3-Dichlorobenzene	1.366	1.327		-2.855	
1,4-Dichlorobenzene	1.407	1.377		-2.132	20.0
Benzyl Alcohol	1.385	1.321		-4.621	
2-Methylphenol	1.177	1.129		-4.078	
2,2-oxybis(1-Chloropropane)	2.270	2.044		-9.956	
Acetophenone	0.558	0.509		-8.781	
3+4-Methylphenols	1.646	1.524		-7.412	
n-Nitroso-di-n-propylamine	1.093	1.012	0.050	-7.411	
Nitrobenzene-d5	0.445	0.401		-9.888	
Hexachloroethane	0.507	0.477		-5.917	
Nitrobenzene	0.428	0.375		-12.383	
Isophorone	0.745	0.664		-10.872	
2-Nitrophenol	0.201	0.188		-6.468	20.0
2,4-Dimethylphenol	0.322	0.299		-7.143	
bis(2-Chloroethoxy) methane	0.392	0.369		-5.867	
2,4-Dichlorophenol	0.372	0.353		-5.108	20.0
1,2,4-Trichlorobenzene	0.410	0.404		-1.463	
Benzoic acid	0.246	0.253		2.846	
Naphthalene	1.095	1.035		-5.479	
4-Chloroaniline	0.497	0.456		-8.249	
Hexachlorobutadiene	0.361	0.358		-0.831	20.0
Caprolactam	0.118	0.110		-6.78	
4-Chloro-3-methylphenol	0.434	0.410		-5.53	20.0
2-Methylnaphthalene	0.861	0.814		-5.459	
Hexachlorocyclopentadiene	0.418	0.416	0.050	-0.478	
2,4,6-Trichlorophenol	0.467	0.460		-1.499	20.0
2-Fluorobiphenyl	1.445	1.424		-1.453	
2,4,5-Trichlorophenol	0.553	0.543		-1.808	
1,1-Biphenyl	1.347	1.325		-1.633	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324

Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 11:25

Lab File ID: BG061003.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.033	1.026		-0.678	
2-Nitroaniline	0.417	0.398		-4.556	
Dimethylphthalate	1.649	1.603		-2.79	
Acenaphthylene	1.740	1.685		-3.161	
2,6-Dinitrotoluene	0.344	0.329		-4.36	
3-Nitroaniline	0.339	0.313		-7.67	
Acenaphthene	1.057	1.027		-2.838	20.0
2,4-Dinitrophenol	0.191	0.195	0.050	2.094	
4-Nitrophenol	0.243	0.244	0.050	0.412	
Dibenzofuran	1.825	1.749		-4.164	
2,4-Dinitrotoluene	0.496	0.481		-3.024	
Diethylphthalate	1.624	1.570		-3.325	
4-Chlorophenyl-phenylether	0.950	0.913		-3.895	
Fluorene	1.541	1.481		-3.894	
4-Nitroaniline	0.366	0.350		-4.372	
4,6-Dinitro-2-methylphenol	0.123	0.118		-4.065	
n-Nitrosodiphenylamine	0.551	0.530		-3.811	20.0
Azobenzene	1.321	1.245		-5.753	
2,4,6-Tribromophenol	0.439	0.430		-2.05	
4-Bromophenyl-phenylether	0.264	0.252		-4.545	
Hexachlorobenzene	0.292	0.282		-3.425	
Atrazine	0.206	0.206		0.0	
Pentachlorophenol	0.191	0.191		0.0	20.0
Phenanthrene	1.021	0.958		-6.17	
Anthracene	1.051	0.989		-5.899	
Carbazole	0.873	0.833		-4.582	
Di-n-butylphthalate	1.060	0.995		-6.132	
Fluoranthene	1.355	1.249		-7.823	20.0
Benzidine	0.371	0.447		20.485	
Pyrene	1.362	1.340		-1.615	
Terphenyl-d14	1.288	1.284		-0.311	
Butylbenzylphthalate	0.454	0.430		-5.286	
3,3-Dichlorobenzidine	0.508	0.488		-3.937	
Benzo(a)anthracene	1.406	1.346		-4.267	
Chrysene	1.339	1.268		-5.302	
Bis(2-ethylhexyl)phthalate	0.660	0.615		-6.818	
Di-n-octyl phthalate	1.096	1.025		-6.478	20.0
Benzo(b)fluoranthene	1.133	1.078		-4.854	
Benzo(k)fluoranthene	1.144	1.085		-5.157	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324
 Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 11:25
 Lab File ID: BG061003.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.097	1.058		-3.555	20.0
Indeno(1,2,3-cd)pyrene	1.387	1.328		-4.254	
Dibenzo(a,h)anthracene	1.134	1.099		-3.086	
Benzo(g,h,i)perylene	1.124	1.082		-3.737	
1,2,4,5-Tetrachlorobenzene	0.711	0.722		1.547	
1,4-Dioxane	0.342	0.303		-11.404	20.0
2,3,4,6-Tetrachlorophenol	0.558	0.547		-1.971	
1-Methylnaphthalene	0.803	0.763		-4.981	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324

Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 1:21:26

Lab File ID: BG061017.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.951	0.978		2.839	50.0
Pyridine	1.058	1.090		3.025	50.0
2-Fluorophenol	0.989	1.025		3.64	50.0
Benzaldehyde	0.755	0.717		-5.033	50.0
Aniline	1.763	1.579		-10.437	50.0
Phenol-d6	1.467	1.383		-5.726	50.0
Phenol	1.458	1.320		-9.465	50.0
bis(2-Chloroethyl) ether	1.043	0.965		-7.478	50.0
2-Chlorophenol	1.232	1.150		-6.656	50.0
1,2-Dichlorobenzene	1.375	1.302		-5.309	50.0
1,3-Dichlorobenzene	1.366	1.358		-0.586	50.0
1,4-Dichlorobenzene	1.407	1.346		-4.335	50.0
Benzyl Alcohol	1.385	1.198		-13.502	50.0
2-Methylphenol	1.177	1.025		-12.914	50.0
2,2-oxybis(1-Chloropropane)	2.270	1.923		-15.286	50.0
Acetophenone	0.558	0.494		-11.47	50.0
3+4-Methylphenols	1.646	1.384		-15.917	50.0
n-Nitroso-di-n-propylamine	1.093	0.888	0.050	-18.756	50.0
Nitrobenzene-d5	0.445	0.405		-8.989	50.0
Hexachloroethane	0.507	0.495		-2.367	50.0
Nitrobenzene	0.428	0.393		-8.178	50.0
Isophorone	0.745	0.631		-15.302	50.0
2-Nitrophenol	0.201	0.186		-7.463	50.0
2,4-Dimethylphenol	0.322	0.290		-9.938	50.0
bis(2-Chloroethoxy) methane	0.392	0.341		-13.01	50.0
2,4-Dichlorophenol	0.372	0.349		-6.183	50.0
1,2,4-Trichlorobenzene	0.410	0.418		1.951	50.0
Benzoic acid	0.246	0.223		-9.35	50.0
Naphthalene	1.095	1.049		-4.201	50.0
4-Chloroaniline	0.497	0.441		-11.268	50.0
Hexachlorobutadiene	0.361	0.373		3.324	50.0
Caprolactam	0.118	0.096		-18.644	50.0
4-Chloro-3-methylphenol	0.434	0.364		-16.129	50.0
2-Methylnaphthalene	0.861	0.783		-9.059	50.0
Hexachlorocyclopentadiene	0.418	0.195	0.050	-53.349	50.0
2,4,6-Trichlorophenol	0.467	0.471		0.857	50.0
2-Fluorobiphenyl	1.445	1.464		1.315	50.0
2,4,5-Trichlorophenol	0.553	0.564		1.989	50.0
1,1-Biphenyl	1.347	1.335		-0.891	50.0

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324

Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 1: 21:26

Lab File ID: BG061017.D Init. Calib. Date(s): _____

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.033	1.041		0.774	50.0
2-Nitroaniline	0.417	0.380		-8.873	50.0
Dimethylphthalate	1.649	1.480		-10.249	50.0
Acenaphthylene	1.740	1.669		-4.08	50.0
2,6-Dinitrotoluene	0.344	0.317		-7.849	50.0
3-Nitroaniline	0.339	0.303		-10.619	50.0
Acenaphthene	1.057	1.008		-4.636	50.0
2,4-Dinitrophenol	0.191	0.074	0.050	-61.257	50.0
4-Nitrophenol	0.243	0.223	0.050	-8.23	50.0
Dibenzofuran	1.825	1.719		-5.808	50.0
2,4-Dinitrotoluene	0.496	0.454		-8.468	50.0
Diethylphthalate	1.624	1.425		-12.254	50.0
4-Chlorophenyl-phenylether	0.950	0.869		-8.526	50.0
Fluorene	1.541	1.420		-7.852	50.0
4-Nitroaniline	0.366	0.321		-12.295	50.0
4,6-Dinitro-2-methylphenol	0.123	0.063		-48.78	50.0
n-Nitrosodiphenylamine	0.551	0.545		-1.089	50.0
Azobenzene	1.321	1.178		-10.825	50.0
2,4,6-Tribromophenol	0.439	0.404		-7.973	50.0
4-Bromophenyl-phenylether	0.264	0.262		-0.758	50.0
Hexachlorobenzene	0.292	0.294		0.685	50.0
Atrazine	0.206	0.202		-1.942	50.0
Pentachlorophenol	0.191	0.195		2.094	50.0
Phenanthrene	1.021	0.958		-6.17	50.0
Anthracene	1.051	0.989		-5.899	50.0
Carbazole	0.873	0.814		-6.758	50.0
Di-n-butylphthalate	1.060	0.976		-7.925	50.0
Fluoranthene	1.355	1.281		-5.461	50.0
Benzidine	0.371	0.449		21.024	50.0
Pyrene	1.362	1.295		-4.919	50.0
Terphenyl-d14	1.288	1.235		-4.115	50.0
Butylbenzylphthalate	0.454	0.430		-5.286	50.0
3,3-Dichlorobenzidine	0.508	0.485		-4.528	50.0
Benzo(a)anthracene	1.406	1.359		-3.343	50.0
Chrysene	1.339	1.275		-4.78	50.0
Bis(2-ethylhexyl)phthalate	0.660	0.619		-6.212	50.0
Di-n-octyl phthalate	1.096	1.025		-6.478	50.0
Benzo(b)fluoranthene	1.133	1.056		-6.796	50.0
Benzo(k)fluoranthene	1.144	1.083		-5.332	50.0

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG No.: BG042324
 Instrument ID: BNA_G Calibration Date/Time: 4/23/2024 1: 21:26
 Lab File ID: BG061017.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.097	1.043		-4.923	50.0
Indeno(1,2,3-cd)pyrene	1.387	1.272		-8.291	50.0
Dibenzo(a,h)anthracene	1.134	1.107		-2.381	50.0
Benzo(g,h,i)perylene	1.124	0.976		-13.167	50.0
1,2,4,5-Tetrachlorobenzene	0.711	0.759		6.751	50.0
1,4-Dioxane	0.342	0.361		5.556	50.0
2,3,4,6-Tetrachlorophenol	0.558	0.526		-5.735	50.0
1-Methylnaphthalene	0.803	0.730		-9.091	50.0

All other compounds must meet a minimum RRF of 0.010.



Client:				Date Collected:	4/18/2024 12:00:00 AM	
Project:				Date Received:	4/18/2024 12:00:00 AM	
Client Sample ID:	PB160353BL			SDG No.:	BG042324	
Lab Sample ID:	PB160353BL			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	0	
Sample Wt/Vol:	30.03	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
BG061004.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

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



Client:				Date Collected:	4/18/2024 12:00:00 AM
Project:				Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	PB160353BL			SDG No.:	BG042324
Lab Sample ID:	PB160353BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	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
BG061004.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	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)	169.2	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

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	PB160353BL	SDG No.:	BG042324
Lab Sample ID:	PB160353BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG061004.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
92-87-5	Benzidine	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	74.6	U	74.6	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	122.629		18-112		82	SPK: -150
13127-88-3	Phenol-d6	123.454		15-107		82	SPK: -150
4165-60-0	Nitrobenzene-d5	75.965		18-107		76	SPK: -100
321-60-8	2-Fluorobiphenyl	78.084		20-109		78	SPK: -100

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	PB160353BL	SDG No.:	BG042324
Lab Sample ID:	PB160353BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03 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
BG061004.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	132.047		10-110		88	SPK: -150
1718-51-0	Terphenyl-d14	81.792		14-112		82	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	19339	7.94				
1146-65-2	Naphthalene-d8	72888	10.737				
15067-26-2	Acenaphthene-d10	65463	14.573				
1517-22-2	Phenanthrene-d10	196400	17.317				
1719-03-5	Chrysene-d12	204593	21.577				
1520-96-3	Perylene-d12	234195	24.703				



Client:				Date Collected:	4/18/2024 12:00:00 AM	
Project:				Date Received:	4/18/2024 12:00:00 AM	
Client Sample ID:	PB160353BS			SDG No.:	BG042324	
Lab Sample ID:	PB160353BS			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
BG061005.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1300		86.8	270	330	ug/Kg
110-86-1	Pyridine	1000		79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	830		96.9	130	170	ug/Kg
108-95-2	Phenol	1600		82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1500		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	1400		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)	1400		90.9	130	170	ug/Kg
98-86-2	Acetophenone	1300		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	1300		40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	1500		83	130	170	ug/Kg
98-95-3	Nitrobenzene	1300		90.8	130	170	ug/Kg
78-59-1	Isophorone	1300		84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	1400		94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		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	570		82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.3	130	170	ug/Kg



Client:				Date Collected:	4/18/2024 12:00:00 AM	
Project:				Date Received:	4/18/2024 12:00:00 AM	
Client Sample ID:	PB160353BS			SDG No.:	BG042324	
Lab Sample ID:	PB160353BS			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
BG061005.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1400		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	1300		82.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3300	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		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	1500		83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95	130	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	920		89.2	130	170	ug/Kg
83-32-9	Acenaphthene	1400		81.1	130	170	ug/Kg
Total PAH	Total PAH	23000		1325.1	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	3300	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)	3000		169.4	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		86.2	130	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.6	130	170	ug/Kg
86-73-7	Fluorene	1400		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	1600		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.6	130	170	ug/Kg
103-33-3	Azobenzene	1400		79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		85	130	170	ug/Kg
1912-24-9	Atrazine	1700		91.4	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	PB160353BS	SDG No.:	BG042324
Lab Sample ID:	PB160353BS	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
BG061005.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	3100	E	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	1400		84	130	170	ug/Kg
120-12-7	Anthracene	1400		84.4	130	170	ug/Kg
86-74-8	Carbazole	1500		80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.3	130	170	ug/Kg
206-44-0	Fluoranthene	1400		81.7	130	170	ug/Kg
92-87-5	Benzidine	1200		160	270	330	ug/Kg
129-00-0	Pyrene	1400		83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.7	130	170	ug/Kg
218-01-9	Chrysene	1400		79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		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	1500		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	1500		81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		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	1100		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	1300		83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	148.729		18-112		99	SPK: -150
13127-88-3	Phenol-d6	135.911		15-107		91	SPK: -150
4165-60-0	Nitrobenzene-d5	76.947		18-107		77	SPK: -100
321-60-8	2-Fluorobiphenyl	88.09		20-109		88	SPK: -100

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	PB160353BS	SDG No.:	BG042324
Lab Sample ID:	PB160353BS	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
BG061005.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	138.514		10-110		92	SPK: -150
1718-51-0	Terphenyl-d14	85.371		14-112		85	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	21419	7.941				
1146-65-2	Naphthalene-d8	86959	10.738				
15067-26-2	Acenaphthene-d10	72732	14.575				
1517-22-2	Phenanthrene-d10	197980	17.318				
1719-03-5	Chrysene-d12	198546	21.578				
1520-96-3	Perylene-d12	232446	24.704				

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-19	SDG No.:	BG042324
Lab Sample ID:	P2177-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	2.7
Sample Wt/Vol:	30.1 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
BG061006.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	88.9	U	88.9	280	340	ug/Kg
110-86-1	Pyridine	81.8	U	81.8	130	170	ug/Kg
100-52-7	Benzaldehyde	190	U	190	280	340	ug/Kg
62-53-3	Aniline	99.3	U	99.3	130	170	ug/Kg
108-95-2	Phenol	84.9	U	84.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.7	U	85.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	85.5	U	85.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	86.7	U	86.7	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	88.1	U	88.1	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	88.6	U	88.6	130	170	ug/Kg
100-51-6	Benzyl Alcohol	85	U	85	280	340	ug/Kg
95-48-7	2-Methylphenol	82.6	U	82.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.1	U	93.1	130	170	ug/Kg
98-86-2	Acetophenone	89	U	89	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.7	U	81.7	280	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.3	U	41.3	81.9	81.9	ug/Kg
67-72-1	Hexachloroethane	85	U	85	130	170	ug/Kg
98-95-3	Nitrobenzene	93	U	93	130	170	ug/Kg
78-59-1	Isophorone	86.7	U	86.7	130	170	ug/Kg
88-75-5	2-Nitrophenol	96.8	U	96.8	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	95.5	U	95.5	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.9	U	87.9	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	77.3	U	77.3	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	87.5	U	87.5	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	280	340	ug/Kg
91-20-3	Naphthalene	84.6	U	84.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	84.6	U	84.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	85.3	U	85.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-19	SDG No.:	BG042324
Lab Sample ID:	P2177-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	2.7
Sample Wt/Vol:	30.1 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
BG061006.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	88.9	U	88.9	280	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.4	U	79.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	84.5	U	84.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	280	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.1	U	73.1	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.8	U	75.8	130	170	ug/Kg
92-52-4	1,1-Biphenyl	89.5	U	89.5	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	85.3	U	85.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	97.3	U	97.3	130	170	ug/Kg
131-11-3	Dimethylphthalate	83.7	U	83.7	130	170	ug/Kg
208-96-8	Acenaphthylene	88.6	U	88.6	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.2	U	85.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	91.4	U	91.4	130	170	ug/Kg
83-32-9	Acenaphthene	83.1	U	83.1	130	170	ug/Kg
Total PAH	Total PAH	1357.4	U	1357.4	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	280	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	280	340	ug/Kg
132-64-9	Dibenzofuran	86.5	U	86.5	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	73.5	U	173.5	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.3	U	88.3	130	170	ug/Kg
84-66-2	Diethylphthalate	82	U	82	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.7	U	87.7	130	170	ug/Kg
86-73-7	Fluorene	87.6	U	87.6	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	280	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.6	U	83.6	130	170	ug/Kg
103-33-3	Azobenzene	81.5	U	81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.8	U	80.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	87.1	U	87.1	130	170	ug/Kg
1912-24-9	Atrazine	93.6	U	93.6	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-19	SDG No.:	BG042324
Lab Sample ID:	P2177-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	2.7
Sample Wt/Vol:	30.1 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
BG061006.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	79.2	U	79.2	280	340	ug/Kg
85-01-8	Phenanthrene	86	U	86	130	170	ug/Kg
120-12-7	Anthracene	86.5	U	86.5	130	170	ug/Kg
86-74-8	Carbazole	82.3	U	82.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	86.4	U	86.4	130	170	ug/Kg
206-44-0	Fluoranthene	83.7	U	83.7	130	170	ug/Kg
92-87-5	Benzidine	170	U	170	280	340	ug/Kg
129-00-0	Pyrene	85	U	85	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	99.2	U	99.2	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	U	100	280	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.7	U	82.7	130	170	ug/Kg
218-01-9	Chrysene	81.4	U	81.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.2	U	93.2	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	280	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.1	U	83.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	84.6	U	84.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	95.3	U	95.3	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80	U	80	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.2	U	83.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82	U	82	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.9	U	88.9	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	76.5	U	76.5	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	85.2	U	85.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	80.685		18-112		54	SPK: -150
13127-88-3	Phenol-d6	77.933		15-107		52	SPK: -150
4165-60-0	Nitrobenzene-d5	46.93		18-107		47	SPK: -100
321-60-8	2-Fluorobiphenyl	50.94		20-109		51	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-19	SDG No.:	BG042324
Lab Sample ID:	P2177-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	2.7
Sample Wt/Vol:	30.1 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
BG061006.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	78.157		10-110		52	SPK: -150
1718-51-0	Terphenyl-d14	51.441		14-112		51	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	17625	7.94				
1146-65-2	Naphthalene-d8	68982	10.737				
15067-26-2	Acenaphthene-d10	58261	14.568				
1517-22-2	Phenanthrene-d10	161486	17.318				
1719-03-5	Chrysene-d12	182134	21.577				
1520-96-3	Perylene-d12	227943	24.697				



Client:				Date Collected:	4/16/2024 12:00:00 AM	
Project:				Date Received:	4/16/2024 12:00:00 AM	
Client Sample ID:	LKWD-BACKFILL-20			SDG No.:	BG042324	
Lab Sample ID:	P2177-03			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	3.4	
Sample Wt/Vol:	30.05	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
BG061007.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	89.7	U	89.7	280	340	ug/Kg
110-86-1	Pyridine	82.6	U	82.6	130	180	ug/Kg
100-52-7	Benzaldehyde	190	U	190	280	340	ug/Kg
62-53-3	Aniline	100	U	100	130	180	ug/Kg
108-95-2	Phenol	85.7	U	85.7	130	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.5	U	86.5	130	180	ug/Kg
95-57-8	2-Chlorophenol	86.3	U	86.3	130	180	ug/Kg
95-50-1	1,2-Dichlorobenzene	87.4	U	87.4	130	180	ug/Kg
541-73-1	1,3-Dichlorobenzene	88.9	U	88.9	130	180	ug/Kg
106-46-7	1,4-Dichlorobenzene	89.4	U	89.4	130	180	ug/Kg
100-51-6	Benzyl Alcohol	85.8	U	85.8	280	340	ug/Kg
95-48-7	2-Methylphenol	83.3	U	83.3	130	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.9	U	93.9	130	180	ug/Kg
98-86-2	Acetophenone	89.8	U	89.8	130	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.5	U	82.5	280	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.6	U	41.6	82.7	82.7	ug/Kg
67-72-1	Hexachloroethane	85.8	U	85.8	130	180	ug/Kg
98-95-3	Nitrobenzene	93.8	U	93.8	130	180	ug/Kg
78-59-1	Isophorone	87.4	U	87.4	130	180	ug/Kg
88-75-5	2-Nitrophenol	97.7	U	97.7	130	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.3	U	96.3	130	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.7	U	88.7	130	180	ug/Kg
120-83-2	2,4-Dichlorophenol	78	U	78	130	180	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	88.3	U	88.3	130	180	ug/Kg
65-85-0	Benzoic acid	240	U	240	280	340	ug/Kg
91-20-3	Naphthalene	85.4	U	85.4	130	180	ug/Kg
106-47-8	4-Chloroaniline	85.4	U	85.4	130	180	ug/Kg
87-68-3	Hexachlorobutadiene	86.1	U	86.1	130	180	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-20	SDG No.:	BG042324
Lab Sample ID:	P2177-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.4
Sample Wt/Vol:	30.05 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
BG061007.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	89.7	U	89.7	280	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	80.1	U	80.1	130	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.3	U	85.3	130	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	280	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.8	U	73.8	130	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.5	U	76.5	130	180	ug/Kg
92-52-4	1,1-Biphenyl	90.3	U	90.3	130	180	ug/Kg
91-58-7	2-Chloronaphthalene	86.1	U	86.1	130	180	ug/Kg
88-74-4	2-Nitroaniline	98.2	U	98.2	130	180	ug/Kg
131-11-3	Dimethylphthalate	84.4	U	84.4	130	180	ug/Kg
208-96-8	Acenaphthylene	89.4	U	89.4	130	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	86	U	86	130	180	ug/Kg
99-09-2	3-Nitroaniline	92.2	U	92.2	130	180	ug/Kg
83-32-9	Acenaphthene	83.8	U	83.8	130	180	ug/Kg
Total PAH	Total PAH	1369.5	U	1369.5	130	2880	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	280	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	280	340	ug/Kg
132-64-9	Dibenzofuran	87.2	U	87.2	130	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	89.1	U	89.1	130	180	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	75.1	U	175.1	130	360	ug/Kg
84-66-2	Diethylphthalate	82.8	U	82.8	130	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.5	U	88.5	130	180	ug/Kg
86-73-7	Fluorene	88.4	U	88.4	130	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	280	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.3	U	84.3	130	180	ug/Kg
103-33-3	Azobenzene	82.3	U	82.3	130	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.5	U	81.5	130	180	ug/Kg
118-74-1	Hexachlorobenzene	87.8	U	87.8	130	180	ug/Kg
1912-24-9	Atrazine	94.5	U	94.5	130	180	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-20	SDG No.:	BG042324
Lab Sample ID:	P2177-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.4
Sample Wt/Vol:	30.05 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
BG061007.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	79.9	U	79.9	280	340	ug/Kg
85-01-8	Phenanthrene	86.8	U	86.8	130	180	ug/Kg
120-12-7	Anthracene	87.2	U	87.2	130	180	ug/Kg
86-74-8	Carbazole	83	U	83	130	180	ug/Kg
84-74-2	Di-n-butylphthalate	87.1	U	87.1	130	180	ug/Kg
206-44-0	Fluoranthene	84.4	U	84.4	130	180	ug/Kg
92-87-5	Benzidine	170	U	170	280	340	ug/Kg
129-00-0	Pyrene	85.8	U	85.8	130	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	130	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	U	100	280	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.4	U	83.4	130	180	ug/Kg
218-01-9	Chrysene	82.2	U	82.2	130	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	94	U	94	130	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	280	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.8	U	83.8	130	180	ug/Kg
207-08-9	Benzo(k)fluoranthene	85.4	U	85.4	130	180	ug/Kg
50-32-8	Benzo(a)pyrene	96.1	U	96.1	130	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.7	U	80.7	130	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.9	U	83.9	130	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.8	U	82.8	130	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.7	U	89.7	130	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	77.2	U	77.2	130	180	ug/Kg
90-12-0	1-Methylnaphthalene	86	U	86	180	180	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	103.36		18-112		69	SPK: -150
13127-88-3	Phenol-d6	91.575		15-107		61	SPK: -150
4165-60-0	Nitrobenzene-d5	57.64		18-107		58	SPK: -100
321-60-8	2-Fluorobiphenyl	64.009		20-109		64	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-20	SDG No.:	BG042324
Lab Sample ID:	P2177-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.4
Sample Wt/Vol:	30.05 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
BG061007.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	101.49		10-110		68	SPK: -150
1718-51-0	Terphenyl-d14	63.2		14-112		63	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	20773	7.943				
1146-65-2	Naphthalene-d8	76703	10.733				
15067-26-2	Acenaphthene-d10	62813	14.57				
1517-22-2	Phenanthrene-d10	171744	17.314				
1719-03-5	Chrysene-d12	182021	21.574				
1520-96-3	Perylene-d12	223081	24.699				



Client:			Date Collected:	4/16/2024 12:00:00 AM		
Project:			Date Received:	4/16/2024 12:00:00 AM		
Client Sample ID:	LKWD-BACKFILL-21		SDG No.:	BG042324		
Lab Sample ID:	P2177-05		Matrix:	Solid		
Analytical Method:	8270E		% Moisture:	3.5		
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
BG061008.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	89.9	U	89.9	280	340	ug/Kg
110-86-1	Pyridine	82.8	U	82.8	130	180	ug/Kg
100-52-7	Benzaldehyde	190	U	190	280	340	ug/Kg
62-53-3	Aniline	100	U	100	130	180	ug/Kg
108-95-2	Phenol	85.9	U	85.9	130	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.7	U	86.7	130	180	ug/Kg
95-57-8	2-Chlorophenol	86.5	U	86.5	130	180	ug/Kg
95-50-1	1,2-Dichlorobenzene	87.6	U	87.6	130	180	ug/Kg
541-73-1	1,3-Dichlorobenzene	89.1	U	89.1	130	180	ug/Kg
106-46-7	1,4-Dichlorobenzene	89.6	U	89.6	130	180	ug/Kg
100-51-6	Benzyl Alcohol	86	U	86	280	340	ug/Kg
95-48-7	2-Methylphenol	83.5	U	83.5	130	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	94.2	U	94.2	130	180	ug/Kg
98-86-2	Acetophenone	90	U	90	130	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.7	U	82.7	280	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.7	U	41.7	82.9	82.9	ug/Kg
67-72-1	Hexachloroethane	86	U	86	130	180	ug/Kg
98-95-3	Nitrobenzene	94.1	U	94.1	130	180	ug/Kg
78-59-1	Isophorone	87.6	U	87.6	130	180	ug/Kg
88-75-5	2-Nitrophenol	97.9	U	97.9	130	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.5	U	96.5	130	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.9	U	88.9	130	180	ug/Kg
120-83-2	2,4-Dichlorophenol	78.2	U	78.2	130	180	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	88.5	U	88.5	130	180	ug/Kg
65-85-0	Benzoic acid	250	U	250	280	340	ug/Kg
91-20-3	Naphthalene	85.6	U	85.6	130	180	ug/Kg
106-47-8	4-Chloroaniline	85.6	U	85.6	130	180	ug/Kg
87-68-3	Hexachlorobutadiene	86.3	U	86.3	130	180	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-21	SDG No.:	BG042324
Lab Sample ID:	P2177-05	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.5
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
BG061008.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	89.9	U	89.9	280	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	80.3	U	80.3	130	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.5	U	85.5	130	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	280	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	74	U	74	130	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.7	U	76.7	130	180	ug/Kg
92-52-4	1,1-Biphenyl	90.5	U	90.5	130	180	ug/Kg
91-58-7	2-Chloronaphthalene	86.3	U	86.3	130	180	ug/Kg
88-74-4	2-Nitroaniline	98.4	U	98.4	130	180	ug/Kg
131-11-3	Dimethylphthalate	84.6	U	84.6	130	180	ug/Kg
208-96-8	Acenaphthylene	89.6	U	89.6	130	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	86.2	U	86.2	130	180	ug/Kg
99-09-2	3-Nitroaniline	92.4	U	92.4	130	180	ug/Kg
83-32-9	Acenaphthene	84	U	84	130	180	ug/Kg
Total PAH	Total PAH	1372.7	U	1372.7	130	2880	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	280	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	280	340	ug/Kg
132-64-9	Dibenzofuran	87.4	U	87.4	130	180	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	75.5	U	175.5	130	360	ug/Kg
121-14-2	2,4-Dinitrotoluene	89.3	U	89.3	130	180	ug/Kg
84-66-2	Diethylphthalate	83	U	83	130	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.7	U	88.7	130	180	ug/Kg
86-73-7	Fluorene	88.6	U	88.6	130	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	280	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.5	U	84.5	130	180	ug/Kg
103-33-3	Azobenzene	82.5	U	82.5	130	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.7	U	81.7	130	180	ug/Kg
118-74-1	Hexachlorobenzene	88.1	U	88.1	130	180	ug/Kg
1912-24-9	Atrazine	94.7	U	94.7	130	180	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-21	SDG No.:	BG042324
Lab Sample ID:	P2177-05	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.5
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
BG061008.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	80.1	U	80.1	280	340	ug/Kg
85-01-8	Phenanthrene	87	U	87	130	180	ug/Kg
120-12-7	Anthracene	87.4	U	87.4	130	180	ug/Kg
86-74-8	Carbazole	83.2	U	83.2	130	180	ug/Kg
84-74-2	Di-n-butylphthalate	87.3	U	87.3	130	180	ug/Kg
206-44-0	Fluoranthene	84.6	U	84.6	130	180	ug/Kg
92-87-5	Benzidine	170	U	170	280	340	ug/Kg
129-00-0	Pyrene	86	U	86	130	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	130	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	U	100	280	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.6	U	83.6	130	180	ug/Kg
218-01-9	Chrysene	82.4	U	82.4	130	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	94.3	U	94.3	130	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	280	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	84	U	84	130	180	ug/Kg
207-08-9	Benzo(k)fluoranthene	85.6	U	85.6	130	180	ug/Kg
50-32-8	Benzo(a)pyrene	96.3	U	96.3	130	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.9	U	80.9	130	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	84.1	U	84.1	130	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	83	U	83	130	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.9	U	89.9	130	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	77.4	U	77.4	130	180	ug/Kg
90-12-0	1-Methylnaphthalene	86.2	U	86.2	180	180	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	101.751		18-112		68	SPK: -150
13127-88-3	Phenol-d6	90.139		15-107		60	SPK: -150
4165-60-0	Nitrobenzene-d5	61.043		18-107		61	SPK: -100
321-60-8	2-Fluorobiphenyl	66.925		20-109		67	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	LKWD-BACKFILL-21	SDG No.:	BG042324
Lab Sample ID:	P2177-05	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	3.5
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
BG061008.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	103.991		10-110		69	SPK: -150
1718-51-0	Terphenyl-d14	65.546		14-112		66	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	20809	7.941				
1146-65-2	Naphthalene-d8	72601	10.737				
15067-26-2	Acenaphthene-d10	59984	14.568				
1517-22-2	Phenanthrene-d10	164076	17.318				
1719-03-5	Chrysene-d12	176785	21.578				
1520-96-3	Perylene-d12	214533	24.703				



Client:				Date Collected:	4/16/2024 12:00:00 AM	
Project:				Date Received:	4/16/2024 12:00:00 AM	
Client Sample ID:	TOPSOIL-LKWD-DENALI-4			SDG No.:	BG042324	
Lab Sample ID:	P2178-01			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	24.2	
Sample Wt/Vol:	30.04	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
BG061009.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	110	U	110	360	430	ug/Kg
110-86-1	Pyridine	110	U	110	170	220	ug/Kg
100-52-7	Benzaldehyde	240	U	240	360	430	ug/Kg
62-53-3	Aniline	130	U	130	170	220	ug/Kg
108-95-2	Phenol	110	U	110	170	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	170	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	170	220	ug/Kg
95-50-1	1,2-Dichlorobenzene	110	U	110	170	220	ug/Kg
541-73-1	1,3-Dichlorobenzene	110	U	110	170	220	ug/Kg
106-46-7	1,4-Dichlorobenzene	110	U	110	170	220	ug/Kg
100-51-6	Benzyl Alcohol	110	U	110	360	430	ug/Kg
95-48-7	2-Methylphenol	110	U	110	170	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	170	220	ug/Kg
98-86-2	Acetophenone	130	J	110	170	220	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	360	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.1	U	53.1	110	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	170	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	170	220	ug/Kg
78-59-1	Isophorone	110	U	110	170	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	170	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	170	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	170	220	ug/Kg
120-83-2	2,4-Dichlorophenol	99.5	U	99.5	170	220	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	110	U	110	170	220	ug/Kg
65-85-0	Benzoic acid	310	U	310	360	430	ug/Kg
91-20-3	Naphthalene	110	U	110	170	220	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	170	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	170	220	ug/Kg



Client:			Date Collected:	4/16/2024 12:00:00 AM	
Project:			Date Received:	4/16/2024 12:00:00 AM	
Client Sample ID:	TOPSOIL-LKWD-DENALI-4			SDG No.:	BG042324
Lab Sample ID:	P2178-01			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	24.2
Sample Wt/Vol:	30.04	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
BG061009.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	110	U	110	360	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	100	U	100	170	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	170	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	U	210	360	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	94.1	U	94.1	170	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	97.5	U	97.5	170	220	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	170	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	170	220	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	170	220	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	170	220	ug/Kg
208-96-8	Acenaphthylene	110	U	110	170	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	170	220	ug/Kg
99-09-2	3-Nitroaniline	120	U	120	170	220	ug/Kg
83-32-9	Acenaphthene	110	U	110	170	220	ug/Kg
Total PAH	Total PAH	1750	U	1750	170	3520	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	360	430	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	360	430	ug/Kg
132-64-9	Dibenzofuran	110	U	110	170	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	170	220	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	220	U	220	170	440	ug/Kg
84-66-2	Diethylphthalate	110	U	110	170	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	170	220	ug/Kg
86-73-7	Fluorene	110	U	110	170	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	170	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	360	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	170	220	ug/Kg
103-33-3	Azobenzene	100	U	100	170	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	170	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	170	220	ug/Kg
1912-24-9	Atrazine	120	U	120	170	220	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-4	SDG No.:	BG042324
Lab Sample ID:	P2178-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	24.2
Sample Wt/Vol:	30.04 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
BG061009.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	100	U	100	360	430	ug/Kg
85-01-8	Phenanthrene	110	U	110	170	220	ug/Kg
120-12-7	Anthracene	110	U	110	170	220	ug/Kg
86-74-8	Carbazole	110	U	110	170	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	170	220	ug/Kg
206-44-0	Fluoranthene	110	U	110	170	220	ug/Kg
92-87-5	Benzidine	210	U	210	360	430	ug/Kg
129-00-0	Pyrene	110	U	110	170	220	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	170	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	360	430	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	170	220	ug/Kg
218-01-9	Chrysene	100	U	100	170	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	170	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	360	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	J	110	170	220	ug/Kg
207-08-9	Benzo(k)fluoranthene	110	U	110	170	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	170	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	170	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	170	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	170	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	170	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	170	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	98.4	U	98.4	170	220	ug/Kg
90-12-0	1-Methylnaphthalene	110	U	110	220	220	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	105.915		18-112		71	SPK: -150
13127-88-3	Phenol-d6	95.52		15-107		64	SPK: -150
4165-60-0	Nitrobenzene-d5	55.25		18-107		55	SPK: -100
321-60-8	2-Fluorobiphenyl	58.379		20-109		58	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-4	SDG No.:	BG042324
Lab Sample ID:	P2178-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	24.2
Sample Wt/Vol:	30.04 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
BG061009.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	89.735		10-110		60	SPK: -150
1718-51-0	Terphenyl-d14	54.018		14-112		54	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	24827	7.943				
1146-65-2	Naphthalene-d8	97648	10.734				
15067-26-2	Acenaphthene-d10	79609	14.571				
1517-22-2	Phenanthrene-d10	196203	17.314				
1719-03-5	Chrysene-d12	198403	21.574				
1520-96-3	Perylene-d12	237390	24.7				

Report of Analysis

Client:				Date Collected:	4/16/2024 12:00:00 AM		
Project:				Date Received:	4/16/2024 12:00:00 AM		
Client Sample ID:	TOPSOIL-LKWD-DENALI-5			SDG No.:	BG042324		
Lab Sample ID:	P2178-03			Matrix:	Solid		
Analytical Method:	8270E			% Moisture:	28.9		
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
BG061010.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	120	U	120	380	460	ug/Kg
110-86-1	Pyridine	110	U	110	180	240	ug/Kg
100-52-7	Benzaldehyde	260	U	260	380	460	ug/Kg
62-53-3	Aniline	140	U	140	180	240	ug/Kg
108-95-2	Phenol	120	U	120	180	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	120	U	120	180	240	ug/Kg
95-57-8	2-Chlorophenol	120	U	120	180	240	ug/Kg
95-50-1	1,2-Dichlorobenzene	120	U	120	180	240	ug/Kg
541-73-1	1,3-Dichlorobenzene	120	U	120	180	240	ug/Kg
106-46-7	1,4-Dichlorobenzene	120	U	120	180	240	ug/Kg
100-51-6	Benzyl Alcohol	120	U	120	380	460	ug/Kg
95-48-7	2-Methylphenol	110	U	110	180	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	130	180	240	ug/Kg
98-86-2	Acetophenone	120	U	120	180	240	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	380	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.6	U	56.6	110	110	ug/Kg
67-72-1	Hexachloroethane	120	U	120	180	240	ug/Kg
98-95-3	Nitrobenzene	130	U	130	180	240	ug/Kg
78-59-1	Isophorone	120	U	120	180	240	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	180	240	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	130	180	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	180	240	ug/Kg
120-83-2	2,4-Dichlorophenol	110	U	110	180	240	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	120	U	120	180	240	ug/Kg
65-85-0	Benzoic acid	330	U	330	380	460	ug/Kg
91-20-3	Naphthalene	120	U	120	180	240	ug/Kg
106-47-8	4-Chloroaniline	120	U	120	180	240	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	180	240	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-5	SDG No.:	BG042324
Lab Sample ID:	P2178-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28.9
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
BG061010.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	120	U	120	380	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	110	U	110	180	240	ug/Kg
91-57-6	2-Methylnaphthalene	120	U	120	180	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	380	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	U	100	180	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	100	U	100	180	240	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	180	240	ug/Kg
91-58-7	2-Chloronaphthalene	120	U	120	180	240	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	180	240	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	180	240	ug/Kg
208-96-8	Acenaphthylene	120	U	120	180	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	120	U	120	180	240	ug/Kg
99-09-2	3-Nitroaniline	130	U	130	180	240	ug/Kg
83-32-9	Acenaphthene	110	U	110	180	240	ug/Kg
Total PAH	Total PAH	2310	U	1850	180	3840	ug/Kg
51-28-5	2,4-Dinitrophenol	340	U	340	380	460	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	380	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	180	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	180	240	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	240	U	240	180	480	ug/Kg
84-66-2	Diethylphthalate	110	U	110	180	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	180	240	ug/Kg
86-73-7	Fluorene	120	U	120	180	240	ug/Kg
100-01-6	4-Nitroaniline	150	U	150	180	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	380	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	180	240	ug/Kg
103-33-3	Azobenzene	110	U	110	180	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	180	240	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	180	240	ug/Kg
1912-24-9	Atrazine	130	U	130	180	240	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-5	SDG No.:	BG042324
Lab Sample ID:	P2178-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28.9
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG061010.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	110	U	110	380	460	ug/Kg
85-01-8	Phenanthrene	120	J	120	180	240	ug/Kg
120-12-7	Anthracene	120	U	120	180	240	ug/Kg
86-74-8	Carbazole	110	U	110	180	240	ug/Kg
84-74-2	Di-n-butylphthalate	120	U	120	180	240	ug/Kg
206-44-0	Fluoranthene	380		110	180	240	ug/Kg
92-87-5	Benzidine	230	U	230	380	460	ug/Kg
129-00-0	Pyrene	350		120	180	240	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	140	180	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	U	140	380	460	ug/Kg
56-55-3	Benzo(a)anthracene	230	J	110	180	240	ug/Kg
218-01-9	Chrysene	250		110	180	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	180	240	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	380	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	320		110	180	240	ug/Kg
207-08-9	Benzo(k)fluoranthene	120	J	120	180	240	ug/Kg
50-32-8	Benzo(a)pyrene	230	J	130	180	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	J	110	180	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	180	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	J	110	180	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	180	240	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	180	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	100	U	100	180	240	ug/Kg
90-12-0	1-Methylnaphthalene	120	U	120	240	240	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	101.688		18-112		68	SPK: -150
13127-88-3	Phenol-d6	102.699		15-107		68	SPK: -150
4165-60-0	Nitrobenzene-d5	59.096		18-107		59	SPK: -100
321-60-8	2-Fluorobiphenyl	58.343		20-109		58	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-5	SDG No.:	BG042324
Lab Sample ID:	P2178-03	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28.9
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
BG061010.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	98.36		10-110		66	SPK: -150
1718-51-0	Terphenyl-d14	47.122		14-112		47	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	26884	7.941				
1146-65-2	Naphthalene-d8	108328	10.737				
15067-26-2	Acenaphthene-d10	84067	14.568				
1517-22-2	Phenanthrene-d10	202688	17.318				
1719-03-5	Chrysene-d12	208840	21.578				
1520-96-3	Perylene-d12	253234	24.697				

Report of Analysis

Client:				Date Collected:	4/16/2024 12:00:00 AM		
Project:				Date Received:	4/16/2024 12:00:00 AM		
Client Sample ID:	TOPSOIL-LKWD-DENALI-6			SDG No.:	BG042324		
Lab Sample ID:	P2178-05			Matrix:	Solid		
Analytical Method:	8270E			% Moisture:	25		
Sample Wt/Vol:	30.09	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
BG061011.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	120	U	120	360	440	ug/Kg
110-86-1	Pyridine	110	U	110	170	230	ug/Kg
100-52-7	Benzaldehyde	240	U	240	360	440	ug/Kg
62-53-3	Aniline	130	U	130	170	230	ug/Kg
108-95-2	Phenol	110	U	110	170	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	170	230	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	170	230	ug/Kg
95-50-1	1,2-Dichlorobenzene	110	U	110	170	230	ug/Kg
541-73-1	1,3-Dichlorobenzene	110	U	110	170	230	ug/Kg
106-46-7	1,4-Dichlorobenzene	110	U	110	170	230	ug/Kg
100-51-6	Benzyl Alcohol	110	U	110	360	440	ug/Kg
95-48-7	2-Methylphenol	110	U	110	170	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	170	230	ug/Kg
98-86-2	Acetophenone	120	U	120	170	230	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	360	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.6	U	53.6	110	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	170	230	ug/Kg
98-95-3	Nitrobenzene	120	U	120	170	230	ug/Kg
78-59-1	Isophorone	110	U	110	170	230	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	170	230	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	170	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	170	230	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	170	230	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	110	U	110	170	230	ug/Kg
65-85-0	Benzoic acid	320	U	320	360	440	ug/Kg
91-20-3	Naphthalene	110	U	110	170	230	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	170	230	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	170	230	ug/Kg

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-6	SDG No.:	BG042324
Lab Sample ID:	P2178-05	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	25
Sample Wt/Vol:	30.09 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
BG061011.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	120	U	120	360	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	100	U	100	170	230	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	170	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	U	210	360	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	94.9	U	94.9	170	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	98.4	U	98.4	170	230	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	170	230	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	170	230	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	170	230	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	170	230	ug/Kg
208-96-8	Acenaphthylene	110	U	110	170	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	170	230	ug/Kg
99-09-2	3-Nitroaniline	120	U	120	170	230	ug/Kg
83-32-9	Acenaphthene	110	U	110	170	230	ug/Kg
Total PAH	Total PAH	1760	U	1760	170	3680	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	360	440	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	360	440	ug/Kg
132-64-9	Dibenzofuran	110	U	110	170	230	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	220	U	220	170	460	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	170	230	ug/Kg
84-66-2	Diethylphthalate	110	U	110	170	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	170	230	ug/Kg
86-73-7	Fluorene	110	U	110	170	230	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	170	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	360	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	170	230	ug/Kg
103-33-3	Azobenzene	110	U	110	170	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	170	230	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	170	230	ug/Kg
1912-24-9	Atrazine	120	U	120	170	230	ug/Kg



Client:				Date Collected:	4/16/2024 12:00:00 AM	
Project:				Date Received:	4/16/2024 12:00:00 AM	
Client Sample ID:	TOPSOIL-LKWD-DENALI-6			SDG No.:	BG042324	
Lab Sample ID:	P2178-05			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	25	
Sample Wt/Vol:	30.09	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
BG061011.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	100	U	100	360	440	ug/Kg
85-01-8	Phenanthrene	110	U	110	170	230	ug/Kg
120-12-7	Anthracene	110	U	110	170	230	ug/Kg
86-74-8	Carbazole	110	U	110	170	230	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	170	230	ug/Kg
206-44-0	Fluoranthene	110	U	110	170	230	ug/Kg
92-87-5	Benzidine	220	U	220	360	440	ug/Kg
129-00-0	Pyrene	110	U	110	170	230	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	170	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	360	440	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	170	230	ug/Kg
218-01-9	Chrysene	110	U	110	170	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	170	230	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	360	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	170	230	ug/Kg
207-08-9	Benzo(k)fluoranthene	110	U	110	170	230	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	170	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	170	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	170	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	170	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	170	230	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	170	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	99.3	U	99.3	170	230	ug/Kg
90-12-0	1-Methylnaphthalene	110	U	110	230	230	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	86.084		18-112		57	SPK: -150
13127-88-3	Phenol-d6	76.874		15-107		51	SPK: -150
4165-60-0	Nitrobenzene-d5	48.553		18-107		49	SPK: -100
321-60-8	2-Fluorobiphenyl	47.207		20-109		47	SPK: -100

Report of Analysis

Client:		Date Collected:	4/16/2024 12:00:00 AM
Project:		Date Received:	4/16/2024 12:00:00 AM
Client Sample ID:	TOPSOIL-LKWD-DENALI-6	SDG No.:	BG042324
Lab Sample ID:	P2178-05	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	25
Sample Wt/Vol:	30.09 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
BG061011.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	75.537		10-110		50	SPK: -150
1718-51-0	Terphenyl-d14	41.146		14-112		41	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	26309	7.941				
1146-65-2	Naphthalene-d8	96478	10.738				
15067-26-2	Acenaphthene-d10	77259	14.568				
1517-22-2	Phenanthrene-d10	188244	17.318				
1719-03-5	Chrysene-d12	191845	21.572				
1520-96-3	Perylene-d12	233872	24.698				



Client:				Date Collected:	4/22/2024 12:00:00 AM	
Project:				Date Received:	4/22/2024 12:00:00 AM	
Client Sample ID:	HD-02-04222024			SDG No.:	BG042324	
Lab Sample ID:	P2227-01			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	6.4	
Sample Wt/Vol:	50.05	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
BG061012.D	1	4/23/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160449

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	55.6	U	55.6	170	210	ug/Kg
110-86-1	Pyridine	51.2	U	51.2	83.3	110	ug/Kg
100-52-7	Benzaldehyde	120	U	120	170	210	ug/Kg
62-53-3	Aniline	62.1	U	62.1	83.3	110	ug/Kg
108-95-2	Phenol	53.1	U	53.1	83.3	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	53.6	U	53.6	83.3	110	ug/Kg
95-57-8	2-Chlorophenol	53.5	U	53.5	83.3	110	ug/Kg
95-50-1	1,2-Dichlorobenzene	54.2	U	54.2	83.3	110	ug/Kg
541-73-1	1,3-Dichlorobenzene	55.1	U	55.1	83.3	110	ug/Kg
106-46-7	1,4-Dichlorobenzene	55.4	U	55.4	83.3	110	ug/Kg
100-51-6	Benzyl Alcohol	53.2	U	53.2	170	210	ug/Kg
95-48-7	2-Methylphenol	51.6	U	51.6	83.3	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	58.2	U	58.2	83.3	110	ug/Kg
98-86-2	Acetophenone	55.6	U	55.6	83.3	110	ug/Kg
65794-96-9	3+4-Methylphenols	51.1	U	51.1	170	210	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	25.8	U	25.8	51.2	51.2	ug/Kg
67-72-1	Hexachloroethane	53.2	U	53.2	83.3	110	ug/Kg
98-95-3	Nitrobenzene	58.1	U	58.1	83.3	110	ug/Kg
78-59-1	Isophorone	54.2	U	54.2	83.3	110	ug/Kg
88-75-5	2-Nitrophenol	60.5	U	60.5	83.3	110	ug/Kg
105-67-9	2,4-Dimethylphenol	59.7	U	59.7	83.3	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	54.9	U	54.9	83.3	110	ug/Kg
120-83-2	2,4-Dichlorophenol	48.3	U	48.3	83.3	110	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	54.7	U	54.7	83.3	110	ug/Kg
65-85-0	Benzoic acid	150	U	150	170	210	ug/Kg
91-20-3	Naphthalene	52.9	U	52.9	83.3	110	ug/Kg
106-47-8	4-Chloroaniline	52.9	U	52.9	83.3	110	ug/Kg
87-68-3	Hexachlorobutadiene	53.3	U	53.3	83.3	110	ug/Kg



Client:			Date Collected:	4/22/2024 12:00:00 AM		
Project:			Date Received:	4/22/2024 12:00:00 AM		
Client Sample ID:	HD-02-04222024		SDG No.:	BG042324		
Lab Sample ID:	P2227-01		Matrix:	Solid		
Analytical Method:	8270E		% Moisture:	6.4		
Sample Wt/Vol:	50.05	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
BG061012.D	1	4/23/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160449

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	55.6	U	55.6	170	210	ug/Kg
59-50-7	4-Chloro-3-methylphenol	49.6	U	49.6	83.3	110	ug/Kg
91-57-6	2-Methylnaphthalene	52.8	U	52.8	83.3	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	99.9	U	99.9	170	210	ug/Kg
88-06-2	2,4,6-Trichlorophenol	45.7	U	45.7	83.3	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	47.4	U	47.4	83.3	110	ug/Kg
92-52-4	1,1-Biphenyl	56	U	56	83.3	110	ug/Kg
91-58-7	2-Chloronaphthalene	53.3	U	53.3	83.3	110	ug/Kg
88-74-4	2-Nitroaniline	60.8	U	60.8	83.3	110	ug/Kg
131-11-3	Dimethylphthalate	52.3	U	52.3	83.3	110	ug/Kg
208-96-8	Acenaphthylene	55.4	U	55.4	83.3	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	53.3	U	53.3	83.3	110	ug/Kg
99-09-2	3-Nitroaniline	57.1	U	57.1	83.3	110	ug/Kg
83-32-9	Acenaphthene	51.9	U	51.9	83.3	110	ug/Kg
Total PAH	Total PAH	848.6	U	848.6	83.3	1760	ug/Kg
51-28-5	2,4-Dinitrophenol	160	U	160	170	210	ug/Kg
100-02-7	4-Nitrophenol	74.3	U	74.3	170	210	ug/Kg
132-64-9	Dibenzofuran	54	U	54	83.3	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	83.3	110	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	108.5	U	108.5	83.3	220	ug/Kg
84-66-2	Diethylphthalate	51.3	U	51.3	83.3	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	54.8	U	54.8	83.3	110	ug/Kg
86-73-7	Fluorene	54.8	U	54.8	83.3	110	ug/Kg
100-01-6	4-Nitroaniline	68.5	U	68.5	83.3	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	74.9	U	74.9	170	210	ug/Kg
86-30-6	n-Nitrosodiphenylamine	52.3	U	52.3	83.3	110	ug/Kg
103-33-3	Azobenzene	51	U	51	83.3	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	50.5	U	50.5	83.3	110	ug/Kg
118-74-1	Hexachlorobenzene	54.4	U	54.4	83.3	110	ug/Kg
1912-24-9	Atrazine	58.5	U	58.5	83.3	110	ug/Kg

Report of Analysis

Client:		Date Collected:	4/22/2024 12:00:00 AM
Project:		Date Received:	4/22/2024 12:00:00 AM
Client Sample ID:	HD-02-04222024	SDG No.:	BG042324
Lab Sample ID:	P2227-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	6.4
Sample Wt/Vol:	50.05	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG061012.D	1	4/23/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160449

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	49.5	U	49.5	170	210	ug/Kg
85-01-8	Phenanthrene	89.9	J	53.8	83.3	110	ug/Kg
120-12-7	Anthracene	54	U	54	83.3	110	ug/Kg
86-74-8	Carbazole	51.4	U	51.4	83.3	110	ug/Kg
84-74-2	Di-n-butylphthalate	54	U	54	83.3	110	ug/Kg
206-44-0	Fluoranthene	170		52.3	83.3	110	ug/Kg
92-87-5	Benzidine	100	U	100	170	210	ug/Kg
129-00-0	Pyrene	130		53.2	83.3	110	ug/Kg
85-68-7	Butylbenzylphthalate	62	U	62	83.3	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	63.1	U	63.1	170	210	ug/Kg
56-55-3	Benzo(a)anthracene	56.8	J	51.7	83.3	110	ug/Kg
218-01-9	Chrysene	60.7	J	50.9	83.3	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	58.3	U	58.3	83.3	110	ug/Kg
117-84-0	Di-n-octyl phthalate	70.4	U	70.4	170	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	79.7	J	51.9	83.3	110	ug/Kg
207-08-9	Benzo(k)fluoranthene	52.9	U	52.9	83.3	110	ug/Kg
50-32-8	Benzo(a)pyrene	59.6	U	59.6	83.3	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	50	U	50	83.3	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	52	U	52	83.3	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	51.3	U	51.3	83.3	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	55.6	U	55.6	83.3	110	ug/Kg
123-91-1	1,4-Dioxane	70.4	U	70.4	83.3	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	47.8	U	47.8	83.3	110	ug/Kg
90-12-0	1-Methylnaphthalene	53.3	U	53.3	110	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	96.528		18-112		64	SPK: -150
13127-88-3	Phenol-d6	81.394		15-107		54	SPK: -150
4165-60-0	Nitrobenzene-d5	49.889		18-107		50	SPK: -100
321-60-8	2-Fluorobiphenyl	54.424		20-109		54	SPK: -100

Report of Analysis

Client:		Date Collected:	4/22/2024 12:00:00 AM
Project:		Date Received:	4/22/2024 12:00:00 AM
Client Sample ID:	HD-02-04222024	SDG No.:	BG042324
Lab Sample ID:	P2227-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	6.4
Sample Wt/Vol:	50.05 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
BG061012.D	1	4/23/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160449

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	75.374		10-110		50	SPK: -150
1718-51-0	Terphenyl-d14	51.821		14-112		52	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	28280	7.947				
1146-65-2	Naphthalene-d8	108537	10.738				
15067-26-2	Acenaphthene-d10	85567	14.568				
1517-22-2	Phenanthrene-d10	195867	17.318				
1719-03-5	Chrysene-d12	196733	21.578				
1520-96-3	Perylene-d12	235273	24.709				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	100	J			3.17	
	unknown3.687	77.3	J			3.687	
000057-10-3	n-Hexadecanoic acid	160	J			18.217	
000112-63-0	9,12-Octadecadienoic acid (Z,Z)-,	71.7	J			19.134	
000112-79-8	9-Octadecenoic acid, (E)-	60.8	J			19.169	
1010314-61-3	Carbonic acid, hexadecyl isobutyl	62.1	J			21.249	



Client:				Date Collected:	4/12/2024 12:00:00 AM	
Project:				Date Received:	4/12/2024 12:00:00 AM	
Client Sample ID:	RPI-SS-DUP-01MS			SDG No.:	BG042324	
Lab Sample ID:	P2166-03MS			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	28	
Sample Wt/Vol:	30.04	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
BG061013.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	2000	U	120	370	460	ug/Kg
110-86-1	Pyridine	1600		110	180	240	ug/Kg
100-52-7	Benzaldehyde	250		250	370	460	ug/Kg
62-53-3	Aniline	650		130	180	240	ug/Kg
108-95-2	Phenol	2100		110	180	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		120	180	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	180	240	ug/Kg
95-50-1	1,2-Dichlorobenzene	2200		120	180	240	ug/Kg
541-73-1	1,3-Dichlorobenzene	2200		120	180	240	ug/Kg
106-46-7	1,4-Dichlorobenzene	2200		120	180	240	ug/Kg
100-51-6	Benzyl Alcohol	1900	120	370	460	ug/Kg	
95-48-7	2-Methylphenol	1900	110	180	240	ug/Kg	
108-60-1	2,2-oxybis(1-Chloropropane)	1900	130	180	240	ug/Kg	
98-86-2	Acetophenone	1900	120	180	240	ug/Kg	
65794-96-9	3+4-Methylphenols	1800	110	370	460	ug/Kg	
621-64-7	n-Nitroso-di-n-propylamine	1700	55.9	110	110	ug/Kg	
67-72-1	Hexachloroethane	2200	120	180	240	ug/Kg	
98-95-3	Nitrobenzene	1900	130	180	240	ug/Kg	
78-59-1	Isophorone	1800	120	180	240	ug/Kg	
88-75-5	2-Nitrophenol	2000	130	180	240	ug/Kg	
105-67-9	2,4-Dimethylphenol	1600	130	180	240	ug/Kg	
111-91-1	bis(2-Chloroethoxy)methane	1900	120	180	240	ug/Kg	
120-83-2	2,4-Dichlorophenol	2100	100	180	240	ug/Kg	
120-82-1	1,2,4-Trichlorobenzene	2300	120	180	240	ug/Kg	
65-85-0	Benzoic acid	2100	330	370	460	ug/Kg	
91-20-3	Naphthalene	2000	110	180	240	ug/Kg	
106-47-8	4-Chloroaniline	510	110	180	240	ug/Kg	
87-68-3	Hexachlorobutadiene	2200	120	180	240	ug/Kg	

Report of Analysis

Client:		Date Collected:	4/12/2024 12:00:00 AM
Project:		Date Received:	4/12/2024 12:00:00 AM
Client Sample ID:	RPI-SS-DUP-01MS	SDG No.:	BG042324
Lab Sample ID:	P2166-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28
Sample Wt/Vol:	30.04 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
BG061013.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1900		120	370	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		110	180	240	ug/Kg
91-57-6	2-Methylnaphthalene	1900		110	180	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3200		220	370	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		99	180	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2100		100	180	240	ug/Kg
92-52-4	1,1-Biphenyl	2200		120	180	240	ug/Kg
91-58-7	2-Chloronaphthalene	2300		120	180	240	ug/Kg
88-74-4	2-Nitroaniline	1900		130	180	240	ug/Kg
131-11-3	Dimethylphthalate	1900		110	180	240	ug/Kg
208-96-8	Acenaphthylene	2200		120	180	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		120	180	240	ug/Kg
99-09-2	3-Nitroaniline	1200		120	180	240	ug/Kg
83-32-9	Acenaphthene	2000		110	180	240	ug/Kg
Total PAH	Total PAH	33200		1830	180	3840	ug/Kg
51-28-5	2,4-Dinitrophenol	2600		340	370	460	ug/Kg
100-02-7	4-Nitrophenol	4300	E	160	370	460	ug/Kg
132-64-9	Dibenzofuran	2000		120	180	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		120	180	240	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	4000		240	180	480	ug/Kg
84-66-2	Diethylphthalate	1900		110	180	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		120	180	240	ug/Kg
86-73-7	Fluorene	2000		120	180	240	ug/Kg
100-01-6	4-Nitroaniline	1600		150	180	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		160	370	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		110	180	240	ug/Kg
103-33-3	Azobenzene	1900		110	180	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		110	180	240	ug/Kg
118-74-1	Hexachlorobenzene	2300		120	180	240	ug/Kg
1912-24-9	Atrazine	2400		130	180	240	ug/Kg

Report of Analysis

Client:		Date Collected:	4/12/2024 12:00:00 AM
Project:		Date Received:	4/12/2024 12:00:00 AM
Client Sample ID:	RPI-SS-DUP-01MS	SDG No.:	BG042324
Lab Sample ID:	P2166-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28
Sample Wt/Vol:	30.04 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
BG061013.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	4500	E	110	370	460	ug/Kg
85-01-8	Phenanthrene	2100		120	180	240	ug/Kg
120-12-7	Anthracene	2000		120	180	240	ug/Kg
86-74-8	Carbazole	2100		110	180	240	ug/Kg
84-74-2	Di-n-butylphthalate	2000		120	180	240	ug/Kg
206-44-0	Fluoranthene	2000		110	180	240	ug/Kg
92-87-5	Benzidine	1700		230	370	460	ug/Kg
129-00-0	Pyrene	2000		120	180	240	ug/Kg
85-68-7	Butylbenzylphthalate	1900		130	180	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		140	370	460	ug/Kg
56-55-3	Benzo(a)anthracene	2100		110	180	240	ug/Kg
218-01-9	Chrysene	2100		110	180	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		130	180	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		150	370	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	2200		110	180	240	ug/Kg
207-08-9	Benzo(k)fluoranthene	2100		110	180	240	ug/Kg
50-32-8	Benzo(a)pyrene	2100		130	180	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2200		110	180	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2200		110	180	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		110	180	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	180	240	ug/Kg
123-91-1	1,4-Dioxane	1700		150	180	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		100	180	240	ug/Kg
90-12-0	1-Methylnaphthalene	1900		120	240	240	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	125.838		18-112		84	SPK: -150
13127-88-3	Phenol-d6	111.703		15-107		74	SPK: -150
4165-60-0	Nitrobenzene-d5	66.538		18-107		67	SPK: -100
321-60-8	2-Fluorobiphenyl	70.92		20-109		71	SPK: -100

Report of Analysis

Client:		Date Collected:	4/12/2024 12:00:00 AM
Project:		Date Received:	4/12/2024 12:00:00 AM
Client Sample ID:	RPI-SS-DUP-01MS	SDG No.:	BG042324
Lab Sample ID:	P2166-03MS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28
Sample Wt/Vol:	30.04 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
BG061013.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	109.014		10-110		73	SPK: -150
1718-51-0	Terphenyl-d14	62.837		14-112		63	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	26377	7.941				
1146-65-2	Naphthalene-d8	101770	10.738				
15067-26-2	Acenaphthene-d10	80240	14.575				
1517-22-2	Phenanthrene-d10	191664	17.319				
1719-03-5	Chrysene-d12	194981	21.584				
1520-96-3	Perylene-d12	232019	24.71				

Report of Analysis

Client:		Date Collected:	4/12/2024 12:00:00 AM
Project:		Date Received:	4/12/2024 12:00:00 AM
Client Sample ID:	RPI-SS-DUP-01MSD	SDG No.:	BG042324
Lab Sample ID:	P2166-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28
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
BG061014.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1700		120	370	460	ug/Kg
110-86-1	Pyridine	1400		110	180	240	ug/Kg
100-52-7	Benzaldehyde	250	U	250	370	460	ug/Kg
62-53-3	Aniline	640		130	180	240	ug/Kg
108-95-2	Phenol	2100		120	180	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		120	180	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	180	240	ug/Kg
95-50-1	1,2-Dichlorobenzene	2200		120	180	240	ug/Kg
541-73-1	1,3-Dichlorobenzene	2200		120	180	240	ug/Kg
106-46-7	1,4-Dichlorobenzene	2200		120	180	240	ug/Kg
100-51-6	Benzyl Alcohol	1900		120	370	460	ug/Kg
95-48-7	2-Methylphenol	1800		110	180	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		130	180	240	ug/Kg
98-86-2	Acetophenone	1900		120	180	240	ug/Kg
65794-96-9	3+4-Methylphenols	1800		110	370	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		55.9	110	110	ug/Kg
67-72-1	Hexachloroethane	2200		120	180	240	ug/Kg
98-95-3	Nitrobenzene	1900		130	180	240	ug/Kg
78-59-1	Isophorone	1800		120	180	240	ug/Kg
88-75-5	2-Nitrophenol	2000		130	180	240	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		130	180	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		120	180	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		100	180	240	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2200		120	180	240	ug/Kg
65-85-0	Benzoic acid	2000		330	370	460	ug/Kg
91-20-3	Naphthalene	2000		110	180	240	ug/Kg
106-47-8	4-Chloroaniline	570		110	180	240	ug/Kg
87-68-3	Hexachlorobutadiene	2200		120	180	240	ug/Kg



Client:			Date Collected:	4/12/2024 12:00:00 AM			
Project:			Date Received:	4/12/2024 12:00:00 AM			
Client Sample ID:	RPI-SS-DUP-01MSD			SDG No.:	BG042324		
Lab Sample ID:	P2166-03MSD			Matrix:	Solid		
Analytical Method:	8270E			% Moisture:	28		
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
BG061014.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1700		120	370	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		110	180	240	ug/Kg
91-57-6	2-Methylnaphthalene	1800		110	180	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3000		220	370	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		99.1	180	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		100	180	240	ug/Kg
92-52-4	1,1-Biphenyl	2200		120	180	240	ug/Kg
91-58-7	2-Chloronaphthalene	2200		120	180	240	ug/Kg
88-74-4	2-Nitroaniline	1900		130	180	240	ug/Kg
131-11-3	Dimethylphthalate	1900		110	180	240	ug/Kg
208-96-8	Acenaphthylene	2200		120	180	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		120	180	240	ug/Kg
99-09-2	3-Nitroaniline	1200		120	180	240	ug/Kg
83-32-9	Acenaphthene	2000		110	180	240	ug/Kg
Total PAH	Total PAH	32600		1830	180	3840	ug/Kg
51-28-5	2,4-Dinitrophenol	2400		340	370	460	ug/Kg
100-02-7	4-Nitrophenol	4300	E	160	370	460	ug/Kg
132-64-9	Dibenzofuran	2000		120	180	240	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	3900		240	180	480	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		120	180	240	ug/Kg
84-66-2	Diethylphthalate	1900		110	180	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		120	180	240	ug/Kg
86-73-7	Fluorene	2000		120	180	240	ug/Kg
100-01-6	4-Nitroaniline	1600		150	180	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		160	370	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2000		110	180	240	ug/Kg
103-33-3	Azobenzene	1900		110	180	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		110	180	240	ug/Kg
118-74-1	Hexachlorobenzene	2300		120	180	240	ug/Kg
1912-24-9	Atrazine	2400		130	180	240	ug/Kg



Client:				Date Collected:	4/12/2024 12:00:00 AM	
Project:				Date Received:	4/12/2024 12:00:00 AM	
Client Sample ID:	RPI-SS-DUP-01MSD			SDG No.:	BG042324	
Lab Sample ID:	P2166-03MSD			Matrix:	Solid	
Analytical Method:	8270E			% Moisture:	28	
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
BG061014.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	4500	E	110	370	460	ug/Kg
85-01-8	Phenanthrene	2000		120	180	240	ug/Kg
120-12-7	Anthracene	2000		120	180	240	ug/Kg
86-74-8	Carbazole	2100		110	180	240	ug/Kg
84-74-2	Di-n-butylphthalate	2000		120	180	240	ug/Kg
206-44-0	Fluoranthene	2000		110	180	240	ug/Kg
92-87-5	Benzidine	2000		230	370	460	ug/Kg
129-00-0	Pyrene	2000		120	180	240	ug/Kg
85-68-7	Butylbenzylphthalate	1900		130	180	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		140	370	460	ug/Kg
56-55-3	Benzo(a)anthracene	2100		110	180	240	ug/Kg
218-01-9	Chrysene	2000		110	180	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		130	180	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		150	370	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		110	180	240	ug/Kg
207-08-9	Benzo(k)fluoranthene	2100		110	180	240	ug/Kg
50-32-8	Benzo(a)pyrene	2100		130	180	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		110	180	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		110	180	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		110	180	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	180	240	ug/Kg
123-91-1	1,4-Dioxane	1600		150	180	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		100	180	240	ug/Kg
90-12-0	1-Methylnaphthalene	1800		120	240	240	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	123.27		18-112		82	SPK: -150
13127-88-3	Phenol-d6	109.987		15-107		73	SPK: -150
4165-60-0	Nitrobenzene-d5	65.841		18-107		66	SPK: -100
321-60-8	2-Fluorobiphenyl	70.147		20-109		70	SPK: -100

Report of Analysis

Client:		Date Collected:	4/12/2024 12:00:00 AM
Project:		Date Received:	4/12/2024 12:00:00 AM
Client Sample ID:	RPI-SS-DUP-01MSD	SDG No.:	BG042324
Lab Sample ID:	P2166-03MSD	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	28
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
BG061014.D	1	4/18/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160353

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	107.644		10-110		72	SPK: -150
1718-51-0	Terphenyl-d14	62.527		14-112		63	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	25663	7.943				
1146-65-2	Naphthalene-d8	98949	10.74				
15067-26-2	Acenaphthene-d10	76463	14.57				
1517-22-2	Phenanthrene-d10	183898	17.32				
1719-03-5	Chrysene-d12	185231	21.586				
1520-96-3	Perylene-d12	228747	24.706				

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMS	SDG No.:	BG042324
Lab Sample ID:	P2189-04MS	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100	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
BG061015.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	370		10.3	80	100	ug/L
110-86-1	Pyridine	270		15.5	40	50	ug/L
100-52-7	Benzaldehyde	40	U	40	80	100	ug/L
62-53-3	Aniline	150		16	40	50	ug/L
108-95-2	Phenol	270		9.3	40	50	ug/L
111-44-4	bis(2-Chloroethyl)ether	370		11.9	40	50	ug/L
95-57-8	2-Chlorophenol	410		7.1	40	50	ug/L
95-50-1	1,2-Dichlorobenzene	390		8.8	40	50	ug/L
541-73-1	1,3-Dichlorobenzene	410		8	40	50	ug/L
106-46-7	1,4-Dichlorobenzene	400		8.4	40	50	ug/L
100-51-6	Benzyl Alcohol	380		16	80	100	ug/L
95-48-7	2-Methylphenol	300		11.3	40	50	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	370		13.5	40	50	ug/L
98-86-2	Acetophenone	370		11	40	50	ug/L
65794-96-9	3+4-Methylphenols	320		11.5	80	100	ug/L
621-64-7	n-Nitroso-di-n-propylamine	330		14.8	25	25	ug/L
67-72-1	Hexachloroethane	410		10.1	40	50	ug/L
98-95-3	Nitrobenzene	370		12.7	40	50	ug/L
78-59-1	Isophorone	360		11.4	40	50	ug/L
88-75-5	2-Nitrophenol	390		19.6	40	50	ug/L
105-67-9	2,4-Dimethylphenol	310		15.1	40	50	ug/L
111-91-1	bis(2-Chloroethoxy)methane	380		10.2	40	50	ug/L
120-83-2	2,4-Dichlorophenol	410		8.8	40	50	ug/L
120-82-1	1,2,4-Trichlorobenzene	430		11	40	50	ug/L
65-85-0	Benzoic acid	280		54.7	80	100	ug/L
91-20-3	Naphthalene	390		10.2	40	50	ug/L
106-47-8	4-Chloroaniline	200		13	40	50	ug/L
87-68-3	Hexachlorobutadiene	410		12.7	40	50	ug/L

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMS	SDG No.:	BG042324
Lab Sample ID:	P2189-04MS	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100 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
BG061015.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	330		16.5	80	100	ug/L
59-50-7	4-Chloro-3-methylphenol	420		8.4	40	50	ug/L
91-57-6	2-Methylnaphthalene	370		11.3	40	50	ug/L
77-47-4	Hexachlorocyclopentadiene	360		50.2	80	100	ug/L
88-06-2	2,4,6-Trichlorophenol	450		8.9	40	50	ug/L
95-95-4	2,4,5-Trichlorophenol	430		10.1	40	50	ug/L
92-52-4	1,1-Biphenyl	450		9.1	40	50	ug/L
91-58-7	2-Chloronaphthalene	460		9.7	40	50	ug/L
88-74-4	2-Nitroaniline	410		14.1	40	50	ug/L
131-11-3	Dimethylphthalate	410		9.3	40	50	ug/L
208-96-8	Acenaphthylene	430		10.4	40	50	ug/L
606-20-2	2,6-Dinitrotoluene	410		12.4	40	50	ug/L
99-09-2	3-Nitroaniline	330		13.7	40	50	ug/L
83-32-9	Acenaphthene	410		8.1	40	50	ug/L
Total PAH	Total PAH	6960		172.9	40	800	ug/L
51-28-5	2,4-Dinitrophenol	260		64.2	80	100	ug/L
100-02-7	4-Nitrophenol	820	E	20	80	100	ug/L
132-64-9	Dibenzofuran	430		9.3	40	50	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	830		27.6	40	100	ug/L
121-14-2	2,4-Dinitrotoluene	420		15.2	40	50	ug/L
84-66-2	Diethylphthalate	400		10.4	40	50	ug/L
7005-72-3	4-Chlorophenyl-phenylether	400		9.8	40	50	ug/L
86-73-7	Fluorene	410		9.6	40	50	ug/L
100-01-6	4-Nitroaniline	370		20.4	40	50	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	160		30.7	80	100	ug/L
86-30-6	n-Nitrosodiphenylamine	430		8.9	40	50	ug/L
103-33-3	Azobenzene	410		12	40	50	ug/L
101-55-3	4-Bromophenyl-phenylether	430		9.5	40	50	ug/L
118-74-1	Hexachlorobenzene	480		11.4	40	50	ug/L
1912-24-9	Atrazine	500		12.6	40	50	ug/L

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMS	SDG No.:	BG042324
Lab Sample ID:	P2189-04MS	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100	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
BG061015.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	810	E	18.5	80	100	ug/L
85-01-8	Phenanthrene	440		8.9	40	50	ug/L
120-12-7	Anthracene	420		10.7	40	50	ug/L
86-74-8	Carbazole	440		11.5	40	50	ug/L
84-74-2	Di-n-butylphthalate	420		14.7	40	50	ug/L
206-44-0	Fluoranthene	430		12.9	40	50	ug/L
92-87-5	Benzidine	570		40.7	80	100	ug/L
129-00-0	Pyrene	450		10.6	40	50	ug/L
85-68-7	Butylbenzylphthalate	440		21	40	50	ug/L
91-94-1	3,3-Dichlorobenzidine	420		12.8	80	100	ug/L
56-55-3	Benzo(a)anthracene	460		9.4	40	50	ug/L
218-01-9	Chrysene	460		8.6	40	50	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	430		18.9	40	50	ug/L
117-84-0	Di-n-octyl phthalate	440		25	80	100	ug/L
205-99-2	Benzo(b)fluoranthene	460		11.4	40	50	ug/L
207-08-9	Benzo(k)fluoranthene	460		11.9	40	50	ug/L
50-32-8	Benzo(a)pyrene	430		16.7	40	50	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	450		10.2	40	50	ug/L
53-70-3	Dibenzo(a,h)anthracene	460		11.5	40	50	ug/L
191-24-2	Benzo(g,h,i)perylene	400		11.8	40	50	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	480		10.9	40	50	ug/L
123-91-1	1,4-Dioxane	330		12.5	40	50	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	430		7.9	40	50	ug/L
90-12-0	1-Methylnaphthalene	370		8.6	40	50	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	118.111		10-139		79	SPK: -150
13127-88-3	Phenol-d6	72.544		10-134		48	SPK: -150
4165-60-0	Nitrobenzene-d5	69.444		49-133		69	SPK: -100
321-60-8	2-Fluorobiphenyl	80.917		52-132		81	SPK: -100

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMS	SDG No.:	BG042324
Lab Sample ID:	P2189-04MS	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100 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
BG061015.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	119.403		32-145		80	SPK: -150
1718-51-0	Terphenyl-d14	83.318		36-145		83	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	26713	7.944				
1146-65-2	Naphthalene-d8	103162	10.74				
15067-26-2	Acenaphthene-d10	79476	14.571				
1517-22-2	Phenanthrene-d10	195482	17.321				
1719-03-5	Chrysene-d12	190340	21.581				
1520-96-3	Perylene-d12	237129	24.712				

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMSD	SDG No.:	BG042324
Lab Sample ID:	P2189-04MSD	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100	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
BG061016.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	330		10.3	80	100	ug/L
110-86-1	Pyridine	190		15.5	40	50	ug/L
100-52-7	Benzaldehyde	40	U	40	80	100	ug/L
62-53-3	Aniline	52.9		16	40	50	ug/L
108-95-2	Phenol	220		9.3	40	50	ug/L
111-44-4	bis(2-Chloroethyl)ether	290		11.9	40	50	ug/L
95-57-8	2-Chlorophenol	320		7.1	40	50	ug/L
95-50-1	1,2-Dichlorobenzene	300		8.8	40	50	ug/L
541-73-1	1,3-Dichlorobenzene	310		8	40	50	ug/L
106-46-7	1,4-Dichlorobenzene	310		8.4	40	50	ug/L
100-51-6	Benzyl Alcohol	310		16	80	100	ug/L
95-48-7	2-Methylphenol	240		11.3	40	50	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	280		13.5	40	50	ug/L
98-86-2	Acetophenone	300		11	40	50	ug/L
65794-96-9	3+4-Methylphenols	270		11.5	80	100	ug/L
621-64-7	n-Nitroso-di-n-propylamine	260		14.8	25	25	ug/L
67-72-1	Hexachloroethane	310		10.1	40	50	ug/L
98-95-3	Nitrobenzene	290		12.7	40	50	ug/L
78-59-1	Isophorone	290		11.4	40	50	ug/L
88-75-5	2-Nitrophenol	320		19.6	40	50	ug/L
105-67-9	2,4-Dimethylphenol	290		15.1	40	50	ug/L
111-91-1	bis(2-Chloroethoxy)methane	300		10.2	40	50	ug/L
120-83-2	2,4-Dichlorophenol	360		8.8	40	50	ug/L
120-82-1	1,2,4-Trichlorobenzene	350		11	40	50	ug/L
65-85-0	Benzoic acid	370		54.7	80	100	ug/L
91-20-3	Naphthalene	320		10.2	40	50	ug/L
106-47-8	4-Chloroaniline	76.1		13	40	50	ug/L
87-68-3	Hexachlorobutadiene	320		12.7	40	50	ug/L

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMSD	SDG No.:	BG042324
Lab Sample ID:	P2189-04MSD	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100 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
BG061016.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	300		16.5	80	100	ug/L
59-50-7	4-Chloro-3-methylphenol	380		8.4	40	50	ug/L
91-57-6	2-Methylnaphthalene	320		11.3	40	50	ug/L
77-47-4	Hexachlorocyclopentadiene	410		50.2	80	100	ug/L
88-06-2	2,4,6-Trichlorophenol	400		8.9	40	50	ug/L
95-95-4	2,4,5-Trichlorophenol	380		10.1	40	50	ug/L
92-52-4	1,1-Biphenyl	370		9.1	40	50	ug/L
91-58-7	2-Chloronaphthalene	380		9.7	40	50	ug/L
88-74-4	2-Nitroaniline	370		14.1	40	50	ug/L
131-11-3	Dimethylphthalate	360		9.3	40	50	ug/L
208-96-8	Acenaphthylene	360		10.4	40	50	ug/L
606-20-2	2,6-Dinitrotoluene	370		12.4	40	50	ug/L
99-09-2	3-Nitroaniline	230		13.7	40	50	ug/L
83-32-9	Acenaphthene	360		8.1	40	50	ug/L
Total PAH	Total PAH	6190		172.9	40	800	ug/L
51-28-5	2,4-Dinitrophenol	410		64.2	80	100	ug/L
100-02-7	4-Nitrophenol	750		20	80	100	ug/L
132-64-9	Dibenzofuran	370		9.3	40	50	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	740		27.6	40	100	ug/L
121-14-2	2,4-Dinitrotoluene	370		15.2	40	50	ug/L
84-66-2	Diethylphthalate	350		10.4	40	50	ug/L
7005-72-3	4-Chlorophenyl-phenylether	360		9.8	40	50	ug/L
86-73-7	Fluorene	370		9.6	40	50	ug/L
100-01-6	4-Nitroaniline	300		20.4	40	50	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	250		30.7	80	100	ug/L
86-30-6	n-Nitrosodiphenylamine	390		8.9	40	50	ug/L
103-33-3	Azobenzene	360		12	40	50	ug/L
101-55-3	4-Bromophenyl-phenylether	400		9.5	40	50	ug/L
118-74-1	Hexachlorobenzene	440		11.4	40	50	ug/L
1912-24-9	Atrazine	360		12.6	40	50	ug/L

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMSD	SDG No.:	BG042324
Lab Sample ID:	P2189-04MSD	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100	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
BG061016.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	850	E	18.5	80	100	ug/L
85-01-8	Phenanthrene	410		8.9	40	50	ug/L
120-12-7	Anthracene	370		10.7	40	50	ug/L
86-74-8	Carbazole	400		11.5	40	50	ug/L
84-74-2	Di-n-butylphthalate	380		14.7	40	50	ug/L
206-44-0	Fluoranthene	400		12.9	40	50	ug/L
92-87-5	Benzidine	200		40.7	80	100	ug/L
129-00-0	Pyrene	400		10.6	40	50	ug/L
85-68-7	Butylbenzylphthalate	390		21	40	50	ug/L
91-94-1	3,3-Dichlorobenzidine	320		12.8	80	100	ug/L
56-55-3	Benzo(a)anthracene	410		9.4	40	50	ug/L
218-01-9	Chrysene	410		8.6	40	50	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	380		18.9	40	50	ug/L
117-84-0	Di-n-octyl phthalate	390		25	80	100	ug/L
205-99-2	Benzo(b)fluoranthene	420		11.4	40	50	ug/L
207-08-9	Benzo(k)fluoranthene	410		11.9	40	50	ug/L
50-32-8	Benzo(a)pyrene	380		16.7	40	50	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	400		10.2	40	50	ug/L
53-70-3	Dibenzo(a,h)anthracene	420		11.5	40	50	ug/L
191-24-2	Benzo(g,h,i)perylene	350		11.8	40	50	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	380		10.9	40	50	ug/L
123-91-1	1,4-Dioxane	300		12.5	40	50	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	380		7.9	40	50	ug/L
90-12-0	1-Methylnaphthalene	310		8.6	40	50	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	93.606		10-139		62	SPK: -150
13127-88-3	Phenol-d6	59.699		10-134		40	SPK: -150
4165-60-0	Nitrobenzene-d5	56.378		49-133		56	SPK: -100
321-60-8	2-Fluorobiphenyl	67.358		52-132		67	SPK: -100

Report of Analysis

Client:		Date Collected:	4/18/2024 12:00:00 AM
Project:		Date Received:	4/18/2024 12:00:00 AM
Client Sample ID:	SILICAMSD	SDG No.:	BG042324
Lab Sample ID:	P2189-04MSD	Matrix:	water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	100 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
BG061016.D	1	4/22/2024 12:00:00 AM	4/23/2024 12:00:00 AM	PB160424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	107.809		32-145		72	SPK: -150
1718-51-0	Terphenyl-d14	75.818		36-145		76	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	26292	7.943				
1146-65-2	Naphthalene-d8	99997	10.74				
15067-26-2	Acenaphthene-d10	80046	14.571				
1517-22-2	Phenanthrene-d10	191712	17.321				
1719-03-5	Chrysene-d12	191168	21.58				
1520-96-3	Perylene-d12	233270	24.706				

Hit Summary Sheet SW-846

SDG No.: BG042324

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TOPSOIL-LKWD-DENALI-4								
P2178-01	TOPSOIL-LKWD-DENA	Solid	Acetophenone	130.000	J	110	220	ug/Kg
P2178-01	TOPSOIL-LKWD-DENA	Solid	Benzo(b)fluoranthene	110.000	J	110	220	ug/Kg
Total Svoc :				240.00				
Total Concentration:				240.00				
Client ID : TOPSOIL-LKWD-DENALI-5								
P2178-03	TOPSOIL-LKWD-DENA	Solid	Benzo(a)anthracene	230.000	J	110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Benzo(a)pyrene	230.000	J	130	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Benzo(b)fluoranthene	320.000		110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Benzo(g,h,i)perylene	160.000	J	110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Benzo(k)fluoranthene	120.000	J	120	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Chrysene	250.000		110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Fluoranthene	380.000		110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Indeno(1,2,3-cd)pyrene	150.000	J	110	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Phenanthrene	120.000	J	120	240	ug/Kg
P2178-03	TOPSOIL-LKWD-DENA	Solid	Pyrene	350.000		120	240	ug/Kg
Total Svoc :				2,310.00				
Total Concentration:				2,310.00				
Client ID : HD-02-04222024								
P2227-01	HD-02-04222024	Solid	9,12-Octadecadienoic acid (Z,Z)-, *	71.700	J			
P2227-01	HD-02-04222024	Solid	9-Octadecenoic acid, (E)- *	60.800	J			
P2227-01	HD-02-04222024	Solid	Butane, 2-methoxy-2-methyl- *	100.000	J			
P2227-01	HD-02-04222024	Solid	Carbonic acid, hexadecyl isobutyl *	62.100	J			
P2227-01	HD-02-04222024	Solid	n-Hexadecanoic acid *	160.000	J			
P2227-01	HD-02-04222024	Solid	unknown3.687 *	77.300	J			
Total Tics :				531.90				
P2227-01	HD-02-04222024	Solid	Benzo(a)anthracene	56.800	J	51.7	110	ug/Kg
P2227-01	HD-02-04222024	Solid	Benzo(b)fluoranthene	79.700	J	51.9	110	ug/Kg
P2227-01	HD-02-04222024	Solid	Chrysene	60.700	J	50.9	110	ug/Kg
P2227-01	HD-02-04222024	Solid	Fluoranthene	170.000		52.3	110	ug/Kg
P2227-01	HD-02-04222024	Solid	Phenanthrene	89.900	J	53.8	110	ug/Kg
P2227-01	HD-02-04222024	Solid	Pyrene	130.000		53.2	110	ug/Kg
Total Svoc :				587.10				
Total Concentration:				1,119.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BG042024 SAS No.: BG042024 SDG No.: BG042024
Instrument ID: _____ Calibration Date(s): 4/20/2024 : _____
Calibration Time(s): 16:57 _____

LAB FILE ID:		RRF2.5 = BG060971.D			RRF005 = BG060972.D		RRF010 = BG060973.D	
		RRF020 = BG060974.D			RRF040 = BG060975.D		RRF050 = BG060976.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.948	0.937	1.023	0.943	0.948	0.951	4.2
Pyridine		1.060	1.078	1.121	1.027	1.053	1.058	3.7
2-Fluorophenol		0.981	0.994	1.079	0.958	0.991	0.989	4.7
Benzaldehyde		0.825	0.773	0.859	0.706	0.735	0.755	9.1
Aniline		1.743	1.716	1.931	1.743	1.785	1.763	4.7
Phenol-d6		1.497	1.321	1.538	1.467	1.503	1.467	5.0
Phenol		1.424	1.417	1.544	1.447	1.464	1.458	3.5
bis(2-Chloroethyl)ether		1.115	0.986	1.125	1.007	1.020	1.043	5.5
2-Chlorophenol		1.250	1.271	1.287	1.178	1.224	1.232	3.4
1,2-Dichlorobenzene		1.373	1.375	1.461	1.342	1.367	1.375	3.2
1,3-Dichlorobenzene		1.430	1.288	1.524	1.315	1.364	1.366	6.2
1,4-Dichlorobenzene		1.451	1.367	1.564	1.364	1.375	1.407	5.8
Benzyl Alcohol		1.365	1.345	1.519	1.347	1.376	1.385	4.6
2-Methylphenol		1.093	1.140	1.265	1.174	1.198	1.177	4.9
2,2-oxybis(1-Chloropropane)		2.347	2.162	2.437	2.213	2.239	2.270	4.5
Acetophenone		0.581	0.562	0.576	0.521	0.563	0.558	3.8
3+4-Methylphenols		1.677	1.552	1.811	1.588	1.680	1.646	5.6
n-Nitroso-di-n-propylamine	1.148	1.080	1.002	1.213	1.050	1.106	1.093	6.2
Nitrobenzene-d5		0.435	0.449	0.451	0.422	0.460	0.445	2.9
Hexachloroethane		0.524	0.455	0.542	0.506	0.504	0.507	5.5
Nitrobenzene		0.432	0.421	0.433	0.407	0.441	0.428	2.6
Isophorone		0.738	0.761	0.797	0.704	0.739	0.745	4.2
2-Nitrophenol		0.184	0.210	0.217	0.192	0.208	0.201	5.7
2,4-Dimethylphenol		0.322	0.336	0.337	0.296	0.328	0.322	4.3
bis(2-Chloroethoxy)methane		0.386	0.406	0.416	0.360	0.392	0.392	4.7
2,4-Dichlorophenol		0.360	0.406	0.372	0.350	0.380	0.372	4.8
1,2,4-Trichlorobenzene		0.422	0.398	0.420	0.386	0.424	0.410	3.6
Benzoic acid		0.204	0.199	0.253	0.243	0.271	0.246	13.4
Naphthalene		1.153	1.116	1.092	1.023	1.108	1.095	3.9
4-Chloroaniline		0.497	0.523	0.511	0.469	0.506	0.497	3.8
Hexachlorobutadiene		0.371	0.364	0.370	0.338	0.363	0.361	3.2
Caprolactam		0.111	0.117	0.126	0.119	0.125	0.118	4.6
4-Chloro-3-methylphenol		0.449	0.430	0.451	0.410	0.450	0.434	4.1
2-Methylnaphthalene		0.859	0.889	0.889	0.823	0.880	0.861	3.3
Hexachlorocyclopentadiene			0.343	0.401	0.412	0.433	0.418	10.5
2,4,6-Trichlorophenol		0.446	0.475	0.490	0.447	0.469	0.467	3.9

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.: BG042024 SAS No.: BG042024 SDG No.: BG042024
Instrument ID: _____ Calibration Date(s): 4/20/2024 : _____
Calibration Time(s): 16:57 _____

LAB FILE ID:		RRF2.5 = BG060971.D			RRF005 = BG060972.D		RRF010 = BG060973.D	
		RRF020 = BG060974.D			RRF040 = BG060975.D		RRF050 = BG060976.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.395	1.413	1.494	1.390	1.454	1.445	3.4
2,4,5-Trichlorophenol		0.554	0.532	0.569	0.524	0.550	0.553	4.4
1,1-Biphenyl		1.256	1.310	1.405	1.298	1.382	1.347	4.6
2-Chloronaphthalene		1.004	0.992	1.064	0.987	1.054	1.033	3.9
2-Nitroaniline		0.419	0.412	0.440	0.393	0.415	0.417	3.9
Dimethylphthalate		1.650	1.668	1.699	1.572	1.661	1.649	3.2
Acenaphthylene		1.671	1.662	1.815	1.689	1.765	1.740	4.1
2,6-Dinitrotoluene		0.346	0.341	0.358	0.333	0.346	0.344	3.3
3-Nitroaniline		0.340	0.350	0.368	0.315	0.340	0.339	5.7
Acenaphthene		1.001	1.026	1.124	1.043	1.077	1.057	4.1
2,4-Dinitrophenol			0.114	0.173	0.190	0.221	0.191	22.8
4-Nitrophenol		0.193	0.232	0.256	0.241	0.264	0.243	10.1
Dibenzofuran		1.862	1.776	1.904	1.746	1.843	1.825	3.5
2,4-Dinitrotoluene		0.508	0.472	0.523	0.481	0.501	0.496	4.1
Diethylphthalate		1.603	1.660	1.728	1.537	1.633	1.624	4.1
4-Chlorophenyl-phenylether		0.979	0.943	1.004	0.899	0.941	0.950	4.0
Fluorene		1.536	1.521	1.654	1.449	1.552	1.541	4.2
4-Nitroaniline		0.373	0.370	0.388	0.348	0.373	0.366	4.6
4,6-Dinitro-2-methylphenol			0.093	0.123	0.122	0.132	0.123	13.1
n-Nitrosodiphenylamine		0.534	0.544	0.575	0.526	0.548	0.551	3.5
Azobenzene		1.306	1.309	1.417	1.241	1.344	1.321	4.6
2,4,6-Tribromophenol		0.428	0.443	0.468	0.419	0.444	0.439	3.7
4-Bromophenyl-phenylether		0.255	0.250	0.280	0.250	0.264	0.264	4.8
Hexachlorobenzene		0.274	0.276	0.305	0.282	0.293	0.292	5.0
Atrazine		0.231	0.218	0.223	0.203	0.196	0.206	9.2
Pentachlorophenol			0.151	0.185	0.191	0.201	0.191	11.4
Phenanthrene		1.017	1.012	1.071	0.964	1.028	1.021	3.3
Anthracene		1.032	1.049	1.098	1.005	1.056	1.051	3.0
Carbazole		0.893	0.877	0.906	0.830	0.859	0.873	3.1
Di-n-butylphthalate		1.046	1.089	1.119	1.006	1.048	1.060	3.6
Fluoranthene		1.360	1.350	1.456	1.282	1.346	1.355	4.0
Benzidine			0.446	0.392	0.399	0.340	0.371	13.5
Pyrene		1.363	1.401	1.447	1.295	1.359	1.362	3.7
Terphenyl-d14		1.303	1.319	1.371	1.223	1.282	1.288	3.9
Butylbenzylphthalate		0.452	0.453	0.482	0.433	0.450	0.454	3.4
3,3-Dichlorobenzidine		0.500	0.519	0.543	0.485	0.503	0.508	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.: BG042024 SAS No.: BG042024 SDG No.: BG042024
Instrument ID: _____ Calibration Date(s): 4/20/2024 : _____
Calibration Time(s): 16:57 : _____

LAB FILE ID:		RRF2.5 = BG060971.D			RRF005 = BG060972.D		RRF010 = BG060973.D	
		RRF020 = BG060974.D			RRF040 = BG060975.D		RRF050 = BG060976.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.412	1.404	1.473	1.335	1.388	1.406	3.0
Chrysene		1.349	1.345	1.394	1.265	1.332	1.339	3.0
Bis(2-ethylhexyl)phthalate		0.651	0.666	0.688	0.622	0.659	0.660	3.1
Di-n-octyl phthalate		1.065	1.110	1.137	1.039	1.100	1.096	3.1
Benzo(b)fluoranthene		1.113	1.110	1.151	1.092	1.125	1.133	3.4
Benzo(k)fluoranthene		1.142	1.106	1.185	1.094	1.152	1.144	3.2
Benzo(a)pyrene		1.073	1.071	1.128	1.053	1.098	1.097	3.3
Indeno(1,2,3-cd)pyrene		1.308	1.312	1.415	1.342	1.415	1.387	4.9
Dibenzo(a,h)anthracene		1.029	1.045	1.160	1.122	1.170	1.134	6.4
Benzo(g,h,i)perylene		1.053	1.114	1.142	1.079	1.138	1.124	4.1
1,2,4,5-Tetrachlorobenzene		0.678	0.663	0.738	0.694	0.718	0.711	4.9
1,4-Dioxane		0.351	0.364	0.363	0.338	0.344	0.342	6.0
2,3,4,6-Tetrachlorophenol		0.535	0.554	0.601	0.533	0.571	0.558	4.7
1-Methylnaphthalene		0.810	0.789	0.833	0.776	0.817	0.803	2.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG NO.: BG042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BG060975.D Time Analyzed: 12:12

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	20618	7.943	82022	10.74	72860	14.57
UPPER LIMIT	41236	8.443	164044	11.24	145720	15.07
LOWER LIMIT	10309	7.443	41011	10.24	36430	14.07
EPA SAMPLE NO.						
01 PB160353BL	19339	7.94	72888	10.74	65463	14.57
02 PB160353BS	21419	7.94	86959	10.74	72732	14.58
03 LKWD-BACKFILL-19	17625	7.94	68982	10.74	58261	14.57
04 LKWD-BACKFILL-20	20773	7.94	76703	10.73	62813	14.57
05 LKWD-BACKFILL-21	20809	7.94	72601	10.74	59984	14.57
06 TOPSOIL-LKWD-DENALI-4	24827	7.94	97648	10.73	79609	14.57
07 TOPSOIL-LKWD-DENALI-5	26884	7.94	108328	10.74	84067	14.57
08 TOPSOIL-LKWD-DENALI-6	26309	7.94	96478	10.74	77259	14.57
09 HD-02-04222024	28280	7.95	108537	10.74	85567	14.57
10 RPI-SS-DUP-01MS	26377	7.94	101770	10.74	80240	14.58
11 RPI-SS-DUP-01MSD	25663	7.94	98949	10.74	76463	14.57
12 SILICAMS	26713	7.94	103162	10.74	79476	14.57
13 SILICAMSD	26292	7.94	99997	10.74	80046	14.57

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG NO.: BG042324

EPA Sample No.: SSTDCCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BG061003.D Time Analyzed: 12:12

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	21659	7.943	87172	10.74	74945	14.57
UPPER LIMIT	43318	8.443	174344	11.24	149890	15.071
LOWER LIMIT	10829.5	7.443	43586	10.24	37472.5	14.071
EPA SAMPLE NO.						
01 PB160353BL	19339	7.94	72888	10.74	65463	14.57
02 PB160353BS	21419	7.94	86959	10.74	72732	14.58
03 LKWD-BACKFILL-19	17625	7.94	68982	10.74	58261	14.57
04 LKWD-BACKFILL-20	20773	7.94	76703	10.73	62813	14.57
05 LKWD-BACKFILL-21	20809	7.94	72601	10.74	59984	14.57
06 TOPSOIL-LKWD-DENALI-4	24827	7.94	97648	10.73	79609	14.57
07 TOPSOIL-LKWD-DENALI-5	26884	7.94	108328	10.74	84067	14.57
08 TOPSOIL-LKWD-DENALI-6	26309	7.94	96478	10.74	77259	14.57
09 HD-02-04222024	28280	7.95	108537	10.74	85567	14.57
10 RPI-SS-DUP-01MS	26377	7.94	101770	10.74	80240	14.58
11 RPI-SS-DUP-01MSD	25663	7.94	98949	10.74	76463	14.57
12 SILICAMS	26713	7.94	103162	10.74	79476	14.57
13 SILICAMSD	26292	7.94	99997	10.74	80046	14.57

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG NO.: BG042324

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BG060975.D Time Analyzed: 12:12

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	190054	17.32	189201	21.58	221856	24.7
	UPPER LIMIT	380108	17.82	378402	22.08	443712	25.2
	LOWER LIMIT	95027	16.82	94600.5	21.08	110928	24.2
	EPA SAMPLE NO.						
01	PB160353BL	196400	17.32	204593	21.58	234195	24.70
02	PB160353BS	197980	17.32	198546	21.58	232446	24.70
03	LKWD-BACKFILL-19	161486	17.32	182134	21.58	227943	24.70
04	LKWD-BACKFILL-20	171744	17.31	182021	21.57	223081	24.70
05	LKWD-BACKFILL-21	164076	17.32	176785	21.58	214533	24.70
06	TOPSOIL-LKWD-DENALI-4	196203	17.31	198403	21.57	237390	24.70
07	TOPSOIL-LKWD-DENALI-5	202688	17.32	208840	21.58	253234	24.70
08	TOPSOIL-LKWD-DENALI-6	188244	17.32	191845	21.57	233872	24.70
09	HD-02-04222024	195867	17.32	196733	21.58	235273	24.71
10	RPI-SS-DUP-01MS	191664	17.32	194981	21.58	232019	24.71
11	RPI-SS-DUP-01MSD	183898	17.32	185231	21.59	228747	24.71
12	SILICAMS	195482	17.32	190340	21.58	237129	24.71
13	SILICAMSD	191712	17.32	191168	21.58	233270	24.71

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG042324 SAS No.: BG042324 SDG NO.: BG042324

EPA Sample No.: SSTDCCC040 Date Analyzed: Apr 23 2024 12:00AM

Lab File ID: BG061003.D Time Analyzed: 12:12

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	195304	17.32	182993	21.58	219697	24.712
	UPPER LIMIT	390608	17.82	365986	22.08	439394	25.212
	LOWER LIMIT	97652	16.82	91496.5	21.08	109848.5	24.212
	EPA SAMPLE NO.						
01	PB160353BL	196400	17.32	204593	21.58	234195	24.70
02	PB160353BS	197980	17.32	198546	21.58	232446	24.70
03	LKWD-BACKFILL-19	161486	17.32	182134	21.58	227943	24.70
04	LKWD-BACKFILL-20	171744	17.31	182021	21.57	223081	24.70
05	LKWD-BACKFILL-21	164076	17.32	176785	21.58	214533	24.70
06	TOPSOIL-LKWD-DENALI-4	196203	17.31	198403	21.57	237390	24.70
07	TOPSOIL-LKWD-DENALI-5	202688	17.32	208840	21.58	253234	24.70
08	TOPSOIL-LKWD-DENALI-6	188244	17.32	191845	21.57	233872	24.70
09	HD-02-04222024	195867	17.32	196733	21.58	235273	24.71
10	RPI-SS-DUP-01MS	191664	17.32	194981	21.58	232019	24.71
11	RPI-SS-DUP-01MSD	183898	17.32	185231	21.59	228747	24.71
12	SILICAMS	195482	17.32	190340	21.58	237129	24.71
13	SILICAMSD	191712	17.32	191168	21.58	233270	24.71

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.: BG042324

Client: _____

Analytical Method: 8270E

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB160353BS	n-Nitrosodimethylamine	1700	1300	ug/Kg	76				57	103	
	Pyridine	1700	1000	ug/Kg	59				28	98	
	Benzaldehyde	1700	0	ug/Kg	0		*		10	147	
	Aniline	1700	830	ug/Kg	49				38	100	
	Phenol	1700	1600	ug/Kg	94				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	1,2-Dichlorobenzene	1700	1500	ug/Kg	88				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	1400	ug/Kg	82				42	116	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1300	ug/Kg	76				55	104	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1300	ug/Kg	76				57	101	
	Isophorone	1700	1300	ug/Kg	76				59	99	
	2-Nitrophenol	1700	1400	ug/Kg	82				61	111	
	2,4-Dimethylphenol	1700	1100	ug/Kg	65		*		67	119	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				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	570	ug/Kg	34				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1400	ug/Kg	82				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	3300	ug/Kg	100				45	134	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	920	ug/Kg	54				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	Total PAH	27200	23000	ug/Kg	85				57	104	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				37	128	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BG042324**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB160353BS	4-Nitrophenol	3300	3300	ug/Kg	100				48	119		
	Dibenzofuran	1700	1400	ug/Kg	82				63	99		
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106		
	2,4-Dinitrotoluene/2,6-Dinitro	3400	3000	ug/Kg	88				60	106		
	Diethylphthalate	1700	1400	ug/Kg	82				60	101		
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98		
	Fluorene	1700	1400	ug/Kg	82				61	101		
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103		
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113		
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107		
	Azobenzene	1700	1400	ug/Kg	82				54	103		
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				55	99		
	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98		
	Atrazine	1700	1700	ug/Kg	100				67	113		
	Pentachlorophenol	3300	3100	ug/Kg	94				67	105		
	Phenanthrene	1700	1400	ug/Kg	82				59	103		
	Anthracene	1700	1400	ug/Kg	82				61	105		
	Carbazole	1700	1500	ug/Kg	88				61	99		
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104		
	Fluoranthene	1700	1400	ug/Kg	82				57	107		
	Benzidine	3300	1200	ug/Kg	36				10	98		
	Pyrene	1700	1400	ug/Kg	82				59	103		
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103		
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				42	91		
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102		
	Chrysene	1700	1400	ug/Kg	82				59	101		
	bis(2-Ethylhexyl)phthalate	1700	1400	ug/Kg	82				63	111		
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				70	108		
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109		
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109		
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103		
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101		
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112		
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108		
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101		
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96		
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108		
	1-Methylnaphthalene	1700	1300	ug/Kg	76				70	130		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160353BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG042324

SAS No.: BG042324 SDG NO.: BG042324

Lab File ID: BG061004.D

Lab Sample ID: PB160353BL

Instrument ID: BNA_G

Date Extracted: 04/18/2024

Matrix: (soil/water) Solid

Date Analyzed: 04/23/2024

Level: (low/med) LOW

Time Analyzed: 12:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB160353BS	PB160353BS	BG061005.D	04/23/2024
LKWD-BACKFILL-19	P2177-01	BG061006.D	04/23/2024
LKWD-BACKFILL-20	P2177-03	BG061007.D	04/23/2024
LKWD-BACKFILL-21	P2177-05	BG061008.D	04/23/2024
TOPSOIL-LKWD-DENALI-4	P2178-01	BG061009.D	04/23/2024
TOPSOIL-LKWD-DENALI-5	P2178-03	BG061010.D	04/23/2024
TOPSOIL-LKWD-DENALI-6	P2178-05	BG061011.D	04/23/2024
RPI-SS-DUP-01MS	P2166-03MS	BG061013.D	04/23/2024
RPI-SS-DUP-01MSD	P2166-03MSD	BG061014.D	04/23/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SILICAMS

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG042324

SAS No.: BG042324 SDG NO.: BG042324

Lab File ID: BG061015.D

Lab Sample ID: P2189-04MS

Instrument ID: BNA_G

Date Extracted: 04/22/2024

Matrix: (soil/water) water

Date Analyzed: 04/23/2024

Level: (low/med) LOW

Time Analyzed: 20:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SILICAMS	P2189-04MS	BG061015.D	04/23/2024
SILICAMSD	P2189-04MSD	BG061016.D	04/23/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

HD-02-04222024

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG042324

SAS No.: BG042324 SDG NO.: BG042324

Lab File ID: BG061012.D

Lab Sample ID: P2227-01

Instrument ID: BNA_G

Date Extracted: 04/23/2024

Matrix: (soil/water) Solid

Date Analyzed: 04/23/2024

Level: (low/med) LOW

Time Analyzed: 17:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
HD-02-04222024	P2227-01	BG061012.D	04/23/2024

COMMENTS: _____

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P2166-03MS		Client Sample ID: RPI-SS-DUP-01MS		DataFile: BG061013.D							
n-Nitrosodimethylamine	2300		2000	ug/Kg	87				66	124	
Pyridine	2300		1600	ug/Kg	70				45	119	
Benzaldehyde	2300		0	ug/Kg	0	*			26	163	
Aniline	2300		650	ug/Kg	28				10	88	
Phenol	2300		2100	ug/Kg	91				67	126	
bis(2-Chloroethyl)ether	2300		1900	ug/Kg	83				74	116	
2-Chlorophenol	2300		2200	ug/Kg	96				61	138	
1,2-Dichlorobenzene	2300		2200	ug/Kg	96				61	105	
1,3-Dichlorobenzene	2300		2200	ug/Kg	96				62	101	
1,4-Dichlorobenzene	2300		2200	ug/Kg	96				63	104	
Benzyl Alcohol	2300		1900	ug/Kg	83				47	126	
2-Methylphenol	2300		1900	ug/Kg	83				66	122	
2,2-oxybis(1-Chloropropane)	2300		1900	ug/Kg	83				52	115	
Acetophenone	2300		1900	ug/Kg	83				75	111	
3+4-Methylphenols	2300		1800	ug/Kg	78				53	132	
N-Nitroso-di-n-propylamine	2300		1700	ug/Kg	74				59	119	
Hexachloroethane	2300		2200	ug/Kg	96				65	117	
Nitrobenzene	2300		1900	ug/Kg	83				70	119	
Isophorone	2300		1800	ug/Kg	78				76	122	
2-Nitrophenol	2300		2000	ug/Kg	87				54	145	
2,4-Dimethylphenol	2300		1600	ug/Kg	70	*			83	144	
bis(2-Chloroethoxy)methane	2300		1900	ug/Kg	83				68	112	
2,4-Dichlorophenol	2300		2100	ug/Kg	91				72	118	
1,2,4-Trichlorobenzene	2300		2300	ug/Kg	100				57	103	
Benzoic acid	2300		2100	ug/Kg	91				50	104	
Naphthalene	2300		2000	ug/Kg	87				72	110	
4-Chloroaniline	2300		510	ug/Kg	22				10	100	
Hexachlorobutadiene	2300		2200	ug/Kg	96				66	114	
Caprolactam	2300		1900	ug/Kg	83				51	134	
4-Chloro-3-methylphenol	2300		1900	ug/Kg	83				57	132	
2-Methylnaphthalene	2300		1900	ug/Kg	83				59	123	
Hexachlorocyclopentadiene	4600		3200	ug/Kg	70				10	175	
2,4,6-Trichlorophenol	2300		2200	ug/Kg	96				72	117	
2,4,5-Trichlorophenol	2300		2100	ug/Kg	91				72	117	
1,1-Biphenyl	2300		2200	ug/Kg	96				75	113	
2-Chloronaphthalene	2300		2300	ug/Kg	100				67	118	
2-Nitroaniline	2300		1900	ug/Kg	83				69	127	
Dimethylphthalate	2300		1900	ug/Kg	83				70	113	
Acenaphthylene	2300		2200	ug/Kg	96				79	118	
2,6-Dinitrotoluene	2300		2000	ug/Kg	87				70	125	
3-Nitroaniline	2300		1200	ug/Kg	52				20	111	
Acenaphthene	2300		2000	ug/Kg	87				70	121	
Total PAH	36800		33200	ug/Kg	90				70	121	
2,4-Dinitrophenol	4600		2600	ug/Kg	57				16	160	
4-Nitrophenol	4600		4300	ug/Kg	93				45	133	
Dibenzofuran	2300		2000	ug/Kg	87				72	110	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
2,4-Dinitrotoluene	2300		2000	ug/Kg	87				55	128	
2,4-Dinitrotoluene/2,6-Dinitrotol	4600		4000	ug/Kg	87				55	128	
Diethylphthalate	2300		1900	ug/Kg	83				70	112	
4-Chlorophenyl-phenylether	2300		1900	ug/Kg	83				71	108	
Fluorene	2300		2000	ug/Kg	87				68	116	
4-Nitroaniline	2300		1600	ug/Kg	70				55	120	
4,6-Dinitro-2-methylphenol	2300		1500	ug/Kg	65				32	145	
N-Nitrosodiphenylamine	2300		2100	ug/Kg	91				73	118	
Azobenzene	2300		1900	ug/Kg	83				73	110	
4-Bromophenyl-phenylether	2300		2100	ug/Kg	91				65	121	
Hexachlorobenzene	2300		2300	ug/Kg	100				67	118	
Atrazine	2300		2400	ug/Kg	104				79	127	
Pentachlorophenol	4600		4500	ug/Kg	98				47	128	
Phenanthrene	2300		2100	ug/Kg	91				72	113	
Anthracene	2300		2000	ug/Kg	87				62	124	
Carbazole	2300		2100	ug/Kg	91				59	119	
Di-n-butylphthalate	2300		2000	ug/Kg	87				69	118	
Fluoranthene	2300		2000	ug/Kg	87				59	125	
Benzydine	4600		1700	ug/Kg	37				10	119	
Pyrene	2300		2000	ug/Kg	87				52	128	
Butylbenzylphthalate	2300		1900	ug/Kg	83				64	126	
3,3-Dichlorobenzidine	2300		1300	ug/Kg	57				10	164	
Benzo(a)anthracene	2300		2100	ug/Kg	91				71	114	
Chrysene	2300		2100	ug/Kg	91				57	121	
bis(2-Ethylhexyl)phthalate	2300		1900	ug/Kg	83				66	127	
Di-n-octyl phthalate	2300		2000	ug/Kg	87				71	126	
Benzo(b)fluoranthene	2300		2200	ug/Kg	96				67	121	
Benzo(k)fluoranthene	2300		2100	ug/Kg	91				74	114	
Benzo(a)pyrene	2300		2100	ug/Kg	91				70	142	
Indeno(1,2,3-cd)pyrene	2300		2200	ug/Kg	96				61	125	
Dibenz(a,h)anthracene	2300		2200	ug/Kg	96				67	130	
Benzo(g,h,i)perylene	2300		1900	ug/Kg	83				53	140	
1,2,4,5-Tetrachlorobenzene	2300		2400	ug/Kg	104				69	124	
1,4-Dioxane	2300		1700	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	2300		2100	ug/Kg	91				56	133	
1-Methylnaphthalene	2300		1900	ug/Kg	83				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P2166-03MSD	Client Sample ID:	RPI-SS-DUP-01MSD					DataFile:	BG061014.D		
n-Nitrosodimethylamine	2300		1700	ug/Kg	74		16		66	124	20
Pyridine	2300		1400	ug/Kg	61		14		45	119	20
Benzaldehyde	2300		0	ug/Kg	0	*			26	163	20
Aniline	2300		640	ug/Kg	28		0		10	88	20
Phenol	2300		2100	ug/Kg	91		0		67	126	20
bis(2-Chloroethyl)ether	2300		1900	ug/Kg	83		0		74	116	20
2-Chlorophenol	2300		2200	ug/Kg	96		0		61	138	20
1,2-Dichlorobenzene	2300		2200	ug/Kg	96		0		61	105	20
1,3-Dichlorobenzene	2300		2200	ug/Kg	96		0		62	101	20
1,4-Dichlorobenzene	2300		2200	ug/Kg	96		0		63	104	20
Benzyl Alcohol	2300		1900	ug/Kg	83		0		47	126	20
2-Methylphenol	2300		1800	ug/Kg	78		6		66	122	20
2,2-oxybis(1-Chloropropane)	2300		2000	ug/Kg	87		5		52	115	20
Acetophenone	2300		1900	ug/Kg	83		0		75	111	20
3+4-Methylphenols	2300		1800	ug/Kg	78		0		53	132	20
N-Nitroso-di-n-propylamine	2300		1700	ug/Kg	74		0		59	119	20
Hexachloroethane	2300		2200	ug/Kg	96		0		65	117	20
Nitrobenzene	2300		1900	ug/Kg	83		0		70	119	20
Isophorone	2300		1800	ug/Kg	78		0		76	122	20
2-Nitrophenol	2300		2000	ug/Kg	87		0		54	145	20
2,4-Dimethylphenol	2300		1500	ug/Kg	65	*	7		83	144	20
bis(2-Chloroethoxy)methane	2300		1800	ug/Kg	78		6		68	112	20
2,4-Dichlorophenol	2300		2000	ug/Kg	87		4		72	118	20
1,2,4-Trichlorobenzene	2300		2200	ug/Kg	96		4		57	103	20
Benzoic acid	2300		2000	ug/Kg	87		4		50	104	20
Naphthalene	2300		2000	ug/Kg	87		0		72	110	20
4-Chloroaniline	2300		570	ug/Kg	25		13		10	100	20
Hexachlorobutadiene	2300		2200	ug/Kg	96		0		66	114	20
Caprolactam	2300		1700	ug/Kg	74		11		51	134	20
4-Chloro-3-methylphenol	2300		1900	ug/Kg	83		0		57	132	20
2-Methylnaphthalene	2300		1800	ug/Kg	78		6		59	123	20
Hexachlorocyclopentadiene	4600		3000	ug/Kg	65		7		10	175	20
2,4,6-Trichlorophenol	2300		2200	ug/Kg	96		0		72	117	20
2,4,5-Trichlorophenol	2300		2000	ug/Kg	87		4		72	117	20
1,1-Biphenyl	2300		2200	ug/Kg	96		0		75	113	20
2-Chloronaphthalene	2300		2200	ug/Kg	96		4		67	118	20
2-Nitroaniline	2300		1900	ug/Kg	83		0		69	127	20
Dimethylphthalate	2300		1900	ug/Kg	83		0		70	113	20
Acenaphthylene	2300		2200	ug/Kg	96		0		79	118	20
2,6-Dinitrotoluene	2300		1900	ug/Kg	83		5		70	125	20
3-Nitroaniline	2300		1200	ug/Kg	52		0		20	111	20
Acenaphthene	2300		2000	ug/Kg	87		0		70	121	20
Total PAH	36800		32600	ug/Kg	89		1		70	121	20
2,4-Dinitrophenol	4600		2400	ug/Kg	52		9		16	160	20
4-Nitrophenol	4600		4300	ug/Kg	93		0		45	133	20
Dibenzofuran	2300		2000	ug/Kg	87		0		72	110	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
2,4-Dinitrotoluene	2300		2000	ug/Kg	87		0		55	128	20
2,4-Dinitrotoluene/2,6-Dinitrotol	4600		3900	ug/Kg	85		2		55	128	20
Diethylphthalate	2300		1900	ug/Kg	83		0		70	112	20
4-Chlorophenyl-phenylether	2300		1900	ug/Kg	83		0		71	108	20
Fluorene	2300		2000	ug/Kg	87		0		68	116	20
4-Nitroaniline	2300		1600	ug/Kg	70		0		55	120	20
4,6-Dinitro-2-methylphenol	2300		1400	ug/Kg	61		6		32	145	20
N-Nitrosodiphenylamine	2300		2000	ug/Kg	87		4		73	118	20
Azobenzene	2300		1900	ug/Kg	83		0		73	110	20
4-Bromophenyl-phenylether	2300		2100	ug/Kg	91		0		65	121	20
Hexachlorobenzene	2300		2300	ug/Kg	100		0		67	118	20
Atrazine	2300		2400	ug/Kg	104		0		79	127	20
Pentachlorophenol	4600		4500	ug/Kg	98		0		47	128	20
Phenanthrene	2300		2000	ug/Kg	87		4		72	113	20
Anthracene	2300		2000	ug/Kg	87		0		62	124	20
Carbazole	2300		2100	ug/Kg	91		0		59	119	20
Di-n-butylphthalate	2300		2000	ug/Kg	87		0		69	118	20
Fluoranthene	2300		2000	ug/Kg	87		0		59	125	20
Benzydine	4600		2000	ug/Kg	43		15		10	119	20
Pyrene	2300		2000	ug/Kg	87		0		52	128	20
Butylbenzylphthalate	2300		1900	ug/Kg	83		0		64	126	20
3,3-Dichlorobenzidine	2300		1400	ug/Kg	61		7		10	164	20
Benzo(a)anthracene	2300		2100	ug/Kg	91		0		71	114	20
Chrysene	2300		2000	ug/Kg	87		4		57	121	20
bis(2-Ethylhexyl)phthalate	2300		1900	ug/Kg	83		0		66	127	20
Di-n-octyl phthalate	2300		2000	ug/Kg	87		0		71	126	20
Benzo(b)fluoranthene	2300		2100	ug/Kg	91		5		67	121	20
Benzo(k)fluoranthene	2300		2100	ug/Kg	91		0		74	114	20
Benzo(a)pyrene	2300		2100	ug/Kg	91		0		70	142	20
Indeno(1,2,3-cd)pyrene	2300		2100	ug/Kg	91		5		61	125	20
Dibenz(a,h)anthracene	2300		2100	ug/Kg	91		5		67	130	20
Benzo(g,h,i)perylene	2300		1800	ug/Kg	78		6		53	140	20
1,2,4,5-Tetrachlorobenzene	2300		2400	ug/Kg	104		0		69	124	20
1,4-Dioxane	2300		1600	ug/Kg	70		6		46	112	20
2,3,4,6-Tetrachlorophenol	2300		2100	ug/Kg	91		0		56	133	20
1-Methylnaphthalene	2300		1800	ug/Kg	78		6		70	130	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P2189-04MS		Client Sample ID: SILICAMS		DataFile: BG061015.D							
n-Nitrosodimethylamine	500		370	ug/L	74				10	130	
Pyridine	500		270	ug/L	54				10	109	
Benzaldehyde	500		0	ug/L	0	*			10	137	
Aniline	500		150	ug/L	30				10	130	
Phenol	500		270	ug/L	54				10	130	
bis(2-Chloroethyl)ether	500		370	ug/L	74				29	141	
2-Chlorophenol	500		410	ug/L	82				23	127	
1,2-Dichlorobenzene	500		390	ug/L	78				61	114	
1,3-Dichlorobenzene	500		410	ug/L	82				65	106	
1,4-Dichlorobenzene	500		400	ug/L	80				55	125	
Benzyl Alcohol	500		380	ug/L	76				31	94	
2-Methylphenol	500		300	ug/L	60				23	132	
2,2-oxybis(1-Chloropropane)	500		370	ug/L	74				36	141	
Acetophenone	500		370	ug/L	74				31	164	
3+4-Methylphenols	500		320	ug/L	64				17	136	
N-Nitroso-di-n-propylamine	500		330	ug/L	66				36	147	
Hexachloroethane	500		410	ug/L	82				35	137	
Nitrobenzene	500		370	ug/L	74				40	134	
Isophorone	500		360	ug/L	72				39	146	
2-Nitrophenol	500		390	ug/L	78				30	148	
2,4-Dimethylphenol	500		310	ug/L	62				17	143	
bis(2-Chloroethoxy)methane	500		380	ug/L	76				39	143	
2,4-Dichlorophenol	500		410	ug/L	82				22	146	
1,2,4-Trichlorobenzene	500		430	ug/L	86				66	110	
Benzoic acid	500		280	ug/L	56				10	101	
Naphthalene	500		390	ug/L	78				17	157	
4-Chloroaniline	500		200	ug/L	40				10	95	
Hexachlorobutadiene	500		410	ug/L	82				52	125	
Caprolactam	500		330	ug/L	66				10	130	
4-Chloro-3-methylphenol	500		420	ug/L	84				17	148	
2-Methylnaphthalene	500		370	ug/L	74				38	146	
Hexachlorocyclopentadiene	1000		360	ug/L	36				20	153	
2,4,6-Trichlorophenol	500		450	ug/L	90				46	139	
2,4,5-Trichlorophenol	500		430	ug/L	86				42	129	
1,1-Biphenyl	500		450	ug/L	90				38	154	
2-Chloronaphthalene	500		460	ug/L	92				41	145	
2-Nitroaniline	500		410	ug/L	82				39	151	
Dimethylphthalate	500		410	ug/L	82				42	147	
Acenaphthylene	500		430	ug/L	86				40	141	
2,6-Dinitrotoluene	500		410	ug/L	82				43	148	
3-Nitroaniline	500		330	ug/L	66				10	111	
Acenaphthene	500		410	ug/L	82				37	146	
Total PAH	8000		6960	ug/L	87				37	146	
2,4-Dinitrophenol	1000		260	ug/L	26				14	167	
4-Nitrophenol	1000		820	ug/L	82				10	130	
Dibenzofuran	500		430	ug/L	86				41	145	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
2,4-Dinitrotoluene/2,6-Dinitrotol	1000		830	ug/L	83				40	151	
2,4-Dinitrotoluene	500		420	ug/L	84				40	151	
Diethylphthalate	500		400	ug/L	80				41	148	
4-Chlorophenyl-phenylether	500		400	ug/L	80				38	149	
Fluorene	500		410	ug/L	82				39	144	
4-Nitroaniline	500		370	ug/L	74				27	138	
4,6-Dinitro-2-methylphenol	500		160	ug/L	32				32	175	
N-Nitrosodiphenylamine	500		430	ug/L	86				40	150	
Azobenzene	500		410	ug/L	82				72	112	
4-Bromophenyl-phenylether	500		430	ug/L	86				42	151	
Hexachlorobenzene	500		480	ug/L	96				60	129	
Atrazine	500		500	ug/L	100				20	162	
Pentachlorophenol	1000		810	ug/L	81				15	137	
Phenanthrene	500		440	ug/L	88				40	147	
Anthracene	500		420	ug/L	84				41	146	
Carbazole	500		440	ug/L	88				37	154	
Di-n-butylphthalate	500		420	ug/L	84				40	151	
Fluoranthene	500		430	ug/L	86				42	146	
Benzydine	1000		570	ug/L	57				10	130	
Pyrene	500		450	ug/L	90				41	149	
Butylbenzylphthalate	500		440	ug/L	88				39	155	
3,3-Dichlorobenzidine	500		420	ug/L	84				10	114	
Benzo(a)anthracene	500		460	ug/L	92				41	147	
Chrysene	500		460	ug/L	92				44	144	
bis(2-Ethylhexyl)phthalate	500		430	ug/L	86				33	160	
Di-n-octyl phthalate	500		440	ug/L	88				36	158	
Benzo(b)fluoranthene	500		460	ug/L	92				40	150	
Benzo(k)fluoranthene	500		460	ug/L	92				40	147	
Benzo(a)pyrene	500		430	ug/L	86				42	147	
Indeno(1,2,3-cd)pyrene	500		450	ug/L	90				30	166	
Dibenz(a,h)anthracene	500		460	ug/L	92				23	172	
Benzo(g,h,i)perylene	500		400	ug/L	80				27	167	
1,2,4,5-Tetrachlorobenzene	500		480	ug/L	96				89	102	
1,4-Dioxane	500		330	ug/L	66				38	130	
2,3,4,6-Tetrachlorophenol	500		430	ug/L	86	*			91	111	
1-Methylnaphthalene	500		370	ug/L	74				25	151	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P2189-04MSD	Client Sample ID:	SILICAMSD					DataFile:	BG061016.D		
n-Nitrosodimethylamine	500		330	ug/L	66		11		10	130	20
Pyridine	500		190	ug/L	38		35	*	10	109	20
Benzaldehyde	500		0	ug/L	0	*			10	137	20
Aniline	500		52.9	ug/L	11		93	*	10	130	20
Phenol	500		220	ug/L	44		20		10	130	20
bis(2-Chloroethyl)ether	500		290	ug/L	58		24	*	29	141	20
2-Chlorophenol	500		320	ug/L	64		25	*	23	127	20
1,2-Dichlorobenzene	500		300	ug/L	60	*	26	*	61	114	20
1,3-Dichlorobenzene	500		310	ug/L	62	*	28	*	65	106	20
1,4-Dichlorobenzene	500		310	ug/L	62		25	*	55	125	20
Benzyl Alcohol	500		310	ug/L	62		20		31	94	20
2-Methylphenol	500		240	ug/L	48		22	*	23	132	20
2,2-oxybis(1-Chloropropane)	500		280	ug/L	56		28	*	36	141	20
Acetophenone	500		300	ug/L	60		21	*	31	164	20
3+4-Methylphenols	500		270	ug/L	54		17		17	136	20
N-Nitroso-di-n-propylamine	500		260	ug/L	52		24	*	36	147	20
Hexachloroethane	500		310	ug/L	62		28	*	35	137	20
Nitrobenzene	500		290	ug/L	58		24	*	40	134	20
Isophorone	500		290	ug/L	58		22	*	39	146	20
2-Nitrophenol	500		320	ug/L	64		20		30	148	20
2,4-Dimethylphenol	500		290	ug/L	58		7		17	143	20
bis(2-Chloroethoxy)methane	500		300	ug/L	60		24	*	39	143	20
2,4-Dichlorophenol	500		360	ug/L	72		13		22	146	20
1,2,4-Trichlorobenzene	500		350	ug/L	70		21	*	66	110	20
Benzoic acid	500		370	ug/L	74		28	*	10	101	20
Naphthalene	500		320	ug/L	64		20		17	157	20
4-Chloroaniline	500		76.1	ug/L	15		91	*	10	95	20
Hexachlorobutadiene	500		320	ug/L	64		25	*	52	125	20
Caprolactam	500		300	ug/L	60		10		10	130	20
4-Chloro-3-methylphenol	500		380	ug/L	76		10		17	148	20
2-Methylnaphthalene	500		320	ug/L	64		14		38	146	20
Hexachlorocyclopentadiene	1000		410	ug/L	41		13		20	153	20
2,4,6-Trichlorophenol	500		400	ug/L	80		12		46	139	20
2,4,5-Trichlorophenol	500		380	ug/L	76		12		42	129	20
1,1-Biphenyl	500		370	ug/L	74		20		38	154	20
2-Chloronaphthalene	500		380	ug/L	76		19		41	145	20
2-Nitroaniline	500		370	ug/L	74		10		39	151	20
Dimethylphthalate	500		360	ug/L	72		13		42	147	20
Acenaphthylene	500		360	ug/L	72		18		40	141	20
2,6-Dinitrotoluene	500		370	ug/L	74		10		43	148	20
3-Nitroaniline	500		230	ug/L	46		36	*	10	111	20
Acenaphthene	500		360	ug/L	72		13		37	146	20
Total PAH	8000		6190	ug/L	77		12		37	146	20
2,4-Dinitrophenol	1000		410	ug/L	41		45	*	14	167	20
4-Nitrophenol	1000		750	ug/L	75		9		10	130	20
Dibenzofuran	500		370	ug/L	74		15		41	145	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
2,4-Dinitrotoluene/2,6-Dinitrotol	1000		740	ug/L	74		11		40	151	20
2,4-Dinitrotoluene	500		370	ug/L	74		13		40	151	20
Diethylphthalate	500		350	ug/L	70		13		41	148	20
4-Chlorophenyl-phenylether	500		360	ug/L	72		11		38	149	20
Fluorene	500		370	ug/L	74		10		39	144	20
4-Nitroaniline	500		300	ug/L	60		21	*	27	138	20
4,6-Dinitro-2-methylphenol	500		250	ug/L	50		44	*	32	175	20
N-Nitrosodiphenylamine	500		390	ug/L	78		10		40	150	20
Azobenzene	500		360	ug/L	72		13		72	112	20
4-Bromophenyl-phenylether	500		400	ug/L	80		7		42	151	20
Hexachlorobenzene	500		440	ug/L	88		9		60	129	20
Atrazine	500		360	ug/L	72		33	*	20	162	20
Pentachlorophenol	1000		850	ug/L	85		5		15	137	20
Phenanthrene	500		410	ug/L	82		7		40	147	20
Anthracene	500		370	ug/L	74		13		41	146	20
Carbazole	500		400	ug/L	80		10		37	154	20
Di-n-butylphthalate	500		380	ug/L	76		10		40	151	20
Fluoranthene	500		400	ug/L	80		7		42	146	20
Benidine	1000		200	ug/L	20		96	*	10	130	20
Pyrene	500		400	ug/L	80		12		41	149	20
Butylbenzylphthalate	500		390	ug/L	78		12		39	155	20
3,3-Dichlorobenzidine	500		320	ug/L	64		27	*	10	114	20
Benzo(a)anthracene	500		410	ug/L	82		11		41	147	20
Chrysene	500		410	ug/L	82		11		44	144	20
bis(2-Ethylhexyl)phthalate	500		380	ug/L	76		12		33	160	20
Di-n-octyl phthalate	500		390	ug/L	78		12		36	158	20
Benzo(b)fluoranthene	500		420	ug/L	84		9		40	150	20
Benzo(k)fluoranthene	500		410	ug/L	82		11		40	147	20
Benzo(a)pyrene	500		380	ug/L	76		12		42	147	20
Indeno(1,2,3-cd)pyrene	500		400	ug/L	80		12		30	166	20
Dibenz(a,h)anthracene	500		420	ug/L	84		9		23	172	20
Benzo(g,h,i)perylene	500		350	ug/L	70		13		27	167	20
1,2,4,5-Tetrachlorobenzene	500		380	ug/L	76	*	23	*	89	102	20
1,4-Dioxane	500		300	ug/L	60		10		38	130	20
2,3,4,6-Tetrachlorophenol	500		380	ug/L	76	*	12		91	111	20
1-Methylnaphthalene	500		310	ug/L	62		18		25	151	20

Surrogate Summary

SW-846

SDG No.: **BG042324**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2166-03MS	RPI-SS-DUP-01MSBG061013.D		2-Fluorophenol	150	125.84	84		18	112
			Phenol-d6	150	111.70	74		15	107
			Nitrobenzene-d5	100	66.54	67		18	107
			2-Fluorobiphenyl	100	70.92	71		20	109
			2,4,6-Tribromophenol	150	109.01	73		10	110
			Terphenyl-d14	100	62.84	63		14	112
P2166-03MSD	RPI-SS-DUP-01MSBG061014.D		2-Fluorophenol	150	123.27	82		18	112
			Phenol-d6	150	109.99	73		15	107
			Nitrobenzene-d5	100	65.84	66		18	107
			2-Fluorobiphenyl	100	70.15	70		20	109
			2,4,6-Tribromophenol	150	107.64	72		10	110
			Terphenyl-d14	100	62.53	63		14	112
P2177-01	LKWD-BACKFILIBG061006.D		2-Fluorophenol	150	80.69	54		18	112
			Phenol-d6	150	77.93	52		15	107
			Nitrobenzene-d5	100	46.93	47		18	107
			2-Fluorobiphenyl	100	50.94	51		20	109
			2,4,6-Tribromophenol	150	78.16	52		10	110
			Terphenyl-d14	100	51.44	51		14	112
P2177-03	LKWD-BACKFILIBG061007.D		2-Fluorophenol	150	103.36	69		18	112
			Phenol-d6	150	91.58	61		15	107
			Nitrobenzene-d5	100	57.64	58		18	107
			2-Fluorobiphenyl	100	64.01	64		20	109
			2,4,6-Tribromophenol	150	101.49	68		10	110
			Terphenyl-d14	100	63.20	63		14	112
P2177-05	LKWD-BACKFILIBG061008.D		2-Fluorophenol	150	101.75	68		18	112
			Phenol-d6	150	90.14	60		15	107
			Nitrobenzene-d5	100	61.04	61		18	107
			2-Fluorobiphenyl	100	66.93	67		20	109
			2,4,6-Tribromophenol	150	103.99	69		10	110
			Terphenyl-d14	100	65.55	66		14	112
P2178-01	TOPSOIL-LKWD-IBG061009.D		2-Fluorophenol	150	105.92	71		18	112
			Phenol-d6	150	95.52	64		15	107
			Nitrobenzene-d5	100	55.25	55		18	107
			2-Fluorobiphenyl	100	58.38	58		20	109
			2,4,6-Tribromophenol	150	89.74	60		10	110
			Terphenyl-d14	100	54.02	54		14	112
P2178-03	TOPSOIL-LKWD-IBG061010.D		2-Fluorophenol	150	101.69	68		18	112
			Phenol-d6	150	102.70	68		15	107
			Nitrobenzene-d5	100	59.10	59		18	107
			2-Fluorobiphenyl	100	58.34	58		20	109
			2,4,6-Tribromophenol	150	98.36	66		10	110
			Terphenyl-d14	100	47.12	47		14	112
P2178-05	TOPSOIL-LKWD-IBG061011.D		2-Fluorophenol	150	86.08	57		18	112
			Phenol-d6	150	76.87	51		15	107
			Nitrobenzene-d5	100	48.55	49		18	107
			2-Fluorobiphenyl	100	47.21	47		20	109
			2,4,6-Tribromophenol	150	75.54	50		10	110
			Terphenyl-d14	100	41.15	41		14	112
PB160353BL	PB160353BL	BG061004.D	2-Fluorophenol	150	122.63	82		18	112



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

Surrogate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160353BL	PB160353BL	BG061004.D	Phenol-d6	150	123.45	82		15	107
			Nitrobenzene-d5	100	75.97	76		18	107
			2-Fluorobiphenyl	100	78.08	78		20	109
			2,4,6-Tribromophenol	150	132.05	88		10	110
			Terphenyl-d14	100	81.79	82		14	112
PB160353BS	PB160353BS	BG061005.D	2-Fluorophenol	150	148.73	99		18	112
			Phenol-d6	150	135.91	91		15	107
			Nitrobenzene-d5	100	76.95	77		18	107
			2-Fluorobiphenyl	100	88.09	88		20	109
			2,4,6-Tribromophenol	150	138.51	92		10	110
			Terphenyl-d14	100	85.37	85		14	112



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

Surrogate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2189-04MS	SILICAMS	BG061015.D	2-Fluorophenol	150	118.11	79		10	139
			Phenol-d6	150	72.54	48		10	134
			Nitrobenzene-d5	100	69.44	69		49	133
			2-Fluorobiphenyl	100	80.92	81		52	132
			2,4,6-Tribromophenol	150	119.40	80		32	145
			Terphenyl-d14	100	83.32	83		36	145
P2189-04MSD	SILICAMSD	BG061016.D	2-Fluorophenol	150	93.61	62		10	139
			Phenol-d6	150	59.70	40		10	134
			Nitrobenzene-d5	100	56.38	56		49	133
			2-Fluorobiphenyl	100	67.36	67		52	132
			2,4,6-Tribromophenol	150	107.81	72		32	145
			Terphenyl-d14	100	75.82	76		36	145



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

Surrogate Summary

SW-846

SDG No.: BG042324

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2227-01	HD-02-04222024	BG061012.D	2-Fluorophenol	150	96.53	64		18	112
			Phenol-d6	150	81.39	54		15	107
			Nitrobenzene-d5	100	49.89	50		18	107
			2-Fluorobiphenyl	100	54.42	54		20	109
			2,4,6-Tribromophenol	150	75.37	50		10	110
			Terphenyl-d14	100	51.82	52		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BG042324

Lab Code: CHEM

SAS No.: BG042324

SDG NO.: BG042324

Lab File ID: BG061002.D

DFTPP Injection Date: 04/23/2024

Instrument ID: BNA_G

DFTPP Injection Time: 10:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.9
68	Less than 2.0% of mass 69	0.2 (0.8) 1
69	Mass 69 relative abundance	20.3
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	25.6
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.5
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG061003.D	04/23/2024	11:25
PB160353BL	PB160353BL	BG061004.D	04/23/2024	12:12
PB160353BS	PB160353BS	BG061005.D	04/23/2024	12:53
LKWD-BACKFILL-19	P2177-01	BG061006.D	04/23/2024	13:47
LKWD-BACKFILL-20	P2177-03	BG061007.D	04/23/2024	14:28
LKWD-BACKFILL-21	P2177-05	BG061008.D	04/23/2024	15:09
TOPSOIL-LKWD-DENALI-4	P2178-01	BG061009.D	04/23/2024	15:51
TOPSOIL-LKWD-DENALI-5	P2178-03	BG061010.D	04/23/2024	16:33
TOPSOIL-LKWD-DENALI-6	P2178-05	BG061011.D	04/23/2024	17:15
HD-02-04222024	P2227-01	BG061012.D	04/23/2024	17:57
RPI-SS-DUP-01MS	P2166-03MS	BG061013.D	04/23/2024	18:39
RPI-SS-DUP-01MSD	P2166-03MSD	BG061014.D	04/23/2024	19:21
SILICAMS	P2189-04MS	BG061015.D	04/23/2024	20:02
SILICAMSD	P2189-04MSD	BG061016.D	04/23/2024	20:44
SSTDCCC040EC	SSTDCCC040	BG061017.D	04/23/2024	21:26