106987

Total Semivolatiles

AR301525

Case Narrative for Semivolatile Analysis
BARR-DOUGLASSVILLE
Project No. 21035

Project Name: BARR-DOUGLASSVILLE

Project Number: 21035

Analysis: Semivolatiles

- There were six soil samples received on 10/5/92 for the Douglassville-BIO project. The test requested was a total semivolatile analysis. The samples were analyzed by method SW-846-8270 on a Hewlett-Packard 5970B MSD.

- The Practical Quantitation Limits (PQLs) and the Method Detection Limits (MDLs) on the results form take into consideration the initial sample amount and percent solids.

- There were no apparent problems during analysis.

- Unless otherwise noted, Kiber will return samples within thirty days after all samples are analyzed.

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21035-1

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 20:12, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 12240
Extract Method 3550
% SOLID: 82

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4896	24480	ND	ND
Acenaphthylene	208-96-8	6120	25704	ND	ND
Anthracene	120-12-7	3672	15912	ND	ND
Benzo(a)anthracene	56-55-3	2448	12240	7400 E	ND
Benzo(b)fluoranthene	205-99-2	3672	14688	ND	ND
Benzo(k)fluoranthene	207-08-9	2448	9792	ND	ND
Benzoic acid	65-85-0	79560	395352	ND	ND
Benzo(g,h,i)perylene	191-24-3	2448	11016	ND	ND
Benzo(a)pyrene	193-39-5	2448	12240	ND	ND
Benzyl alcohol	100-51-6	3672	18360	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3672	14688	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3672	17136	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	6120	25704	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4896	24480	ND	ND
4-Bromophenyl-phenylether	101-55-3	4896	19584	ND	ND
Butylbenzylphthalate	85-68-7	6120	25704	ND	ND
4-Chloroaniline	106-47-8	3672	14688	ND	ND
4-Chloro-3-methylphenol	59-50-7	7344	33048	ND	ND
2-Chloronaphthalene	91-58-7	3672	13464	ND	ND
2-Chlorophenol	95-57-8	2448	12240	ND	ND
4-Chlorophenyl-phenylether	59-50-7	7344	33048	ND	ND
Chrysene	218-01-9	4896	23256	ND	ND
Dibenz(a,h)anthracene	53-70-3	2448	11016	ND	ND
Dibenzofuran	132-64-9	6120	30600	ND	ND
Di-n-butylphthalate	84-74-2	3672	14688	ND	ND
1,2-Dichlorobenzene	95-50-1	2448	12240	ND	ND
1,3-Dichlorobenzene	541-73-1	3672	15912	ND	ND
1,4-Dichlorobenzene	106-46-7	3672	14688	ND	ND
3,3'-Dichlorobenzidine	91-94-1	8568	40392	ND	ND
2,4-Dichlorophenol	120-83-2	6120	25704	ND	ND
Diethylphthalate	84-66-2	4896	24480	ND	ND
2,4-Dimethylphenol	105-67-9	7344	33048	ND	ND
Dimethylphthalate	131-11-3	4896	19584	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	117504	583848	ND	ND
2,4-Dinitrophenol	51-28-5	186048	926568	ND	ND
2,4-Dinitrotoluene	121-14-2	31824	156672	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301527

Gary Bergquist

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-1

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 20:12, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 12240
Extract Method 3550
% SOLID: 82

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	31824	156672	ND	ND
Di-n-octylphthalate	117-84-0	8568	39168	ND	ND
Fluoranthene	206-44-0	2448	9792	4200 E	ND
Fluorene	7782-41-4	6120	30600	ND	ND
Hexachlorobenzene	118-74-1	7344	33048	ND	ND
Hexachlorobutadiene	87-68-3	4896	20808	ND	ND
Hexachlorocyclopentadiene	77-47-4	22032	107712	ND	ND
Hexachloroethane	67-72-1	8568	37944	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3672	15912	ND	ND
Isophorone	78-59-1	3672	18360	ND	ND
2-Methylnaphthalene	91-57-6	2448	12240	26000	ND
2-Methylphenol	95-48-7	3672	15912	ND	ND
4-Methylphenol	106-44-5	4896	18360	ND	ND
Naphthalene	91-57-6	2448	7344	15000	ND
2-Nitroaniline	88-74-4	6120	26928	ND	ND
3-Nitroaniline	99-09-3	20808	104040	ND	ND
4-Nitroaniline	100-01-6	11016	51408	ND	ND
Nitrobenzene	98-95-3	3672	18360	ND	ND
2-Nitrophenol	88-75-5	7344	34272	ND	ND
4-Nitrophenol	100-01-6	79560	394128	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2448	9792	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	4896	24480	ND	ND
Pentachlorophenol	87-86-5	94248	472464	ND	ND
Phenanthrene	85-01-8	2448	9792	14000	ND
Phenol	108-95-2	3672	17136	ND	ND
Pyrene	129-00-0	6120	29376	<MDL	ND
1,2,4-Trichlorobenzene	120-82-1	4896	23256	ND	ND
2,4,5-Trichlorophenol	95-95-4	17136	85680	ND	ND
2,4,6-Trichlorophenol	88-06-02	25704	128520	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		69	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		74	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		57	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		79	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		54	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		72	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Gary Buggeret

AR301528

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21035-2

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 20:58, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 12120
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4848	24240	ND	ND
Acenaphthylene	208-96-8	6060	25452	ND	ND
Anthracene	120-12-7	3636	15756	ND	ND
Benzo(a)anthracene	56-55-3	2424	12120	12000 E	ND
Benzo(b)fluoranthene	205-99-2	3636	14544	ND	ND
Benzo(k)fluoranthene	207-08-9	2424	9696	ND	ND
Benzoic acid	65-85-0	78780	391476	ND	ND
Benzo(g,h,i)perylene	191-24-3	2424	10908	ND	ND
Benzo(a)pyrene	193-39-5	2424	12120	ND	ND
Benzyl alcohol	100-51-6	3636	18180	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3636	14544	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3636	16968	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	6060	25452	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4848	24240	ND	ND
4-Bromophenyl-phenylether	101-55-3	4848	19392	ND	ND
Butylbenzylphthalate	85-68-7	6060	25452	ND	ND
4-Chloroaniline	106-47-8	3636	14544	ND	ND
4-Chloro-3-methylphenol	59-50-7	7272	32724	ND	ND
2-Chloronaphthalene	91-58-7	3636	13332	ND	ND
2-Chlorophenol	95-57-8	2424	12120	ND	ND
4-Chlorophenyl-phenylether	59-50-7	7272	32724	ND	ND
Chrysene	218-01-9	4848	23028	ND	ND
Dibenz(a,h)anthracene	53-70-3	2424	10908	ND	ND
Dibenzofuran	132-64-9	6060	30300	ND	ND
Di-n-butylphthalate	84-74-2	3636	14544	ND	ND
1,2-Dichlorobenzene	95-50-1	2424	12120	ND	ND
1,3-Dichlorobenzene	541-73-1	3636	15756	ND	ND
1,4-Dichlorobenzene	106-46-7	3636	14544	ND	ND
3,3'-Dichlorobenzidine	91-94-1	8484	39996	ND	ND
2,4-Dichlorophenol	120-83-2	6060	25452	ND	ND
Diethylphthalate	84-66-2	4848	24240	ND	ND
2,4-Dimethylphenol	105-67-9	7272	32724	ND	ND
Dimethylphthalate	131-11-3	4848	19392	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	116352	578124	ND	ND
2,4-Dinitrophenol	51-28-5	184224	917484	ND	ND
2,4-Dinitrotoluene	121-14-2	31512	155136	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301529

Stacy Bergquist

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-2

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 20:58, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 12120
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	31512	155136	ND	ND
Di-n-octylphthalate	117-84-0	8484	38784	ND	ND
Fluoranthene	206-44-0	2424	9696	6200 E	ND
Fluorene	7782-41-4	6060	30300	ND	ND
Hexachlorobenzene	118-74-1	7272	32724	ND	ND
Hexachlorobutadiene	87-68-3	4848	20604	ND	ND
Hexachlorocyclopentadiene	77-47-4	21816	106656	ND	ND
Hexachloroethane	67-72-1	8484	37572	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3636	15756	ND	ND
Isophorone	78-59-1	3636	18180	ND	ND
2-Methylnaphthalene	91-57-6	2424	12120	33000	ND
2-Methylphenol	95-48-7	3636	15756	ND	ND
4-Methylphenol	106-44-5	4848	18180	ND	ND
Naphthalene	91-57-6	2424	7272	20000	ND
2-Nitroaniline	88-74-4	6060	26664	ND	ND
3-Nitroaniline	99-09-3	20604	103020	ND	ND
4-Nitroaniline	100-01-6	10908	50904	ND	ND
Nitrobenzene	98-95-3	3636	18180	ND	ND
2-Nitrophenol	88-75-5	7272	33936	ND	ND
4-Nitrophenol	100-01-6	78780	390264	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2424	9696	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	4848	24240	ND	ND
Pentachlorophenol	87-86-5	93324	467832	ND	ND
Phenanthrene	85-01-8	2424	9696	20000	ND
Phenol	108-95-2	3636	16968	ND	ND
Pyrene	129-00-0	6060	29088	7300 E	ND
1,2,4-Trichlorobenzene	120-82-1	4848	23028	ND	ND
2,4,5-Trichlorophenol	95-95-4	16968	84840	ND	ND
2,4,6-Trichlorophenol	88-06-02	25452	127260	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		68	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		72	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		58	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		80	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		60	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		76	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Stacy Bergquist

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21035-3

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 22:30, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 11870
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4748	23740	ND	ND
Acenaphthylene	208-96-8	5935	24927	ND	ND
Anthracene	120-12-7	3561	15431	ND	ND
Benzo(a)anthracene	56-55-3	2374	11870	7400 E	ND
Benzo(b)fluoranthene	205-99-2	3561	14244	ND	ND
Benzo(k)fluoranthene	207-08-9	2374	9496	ND	ND
Benzoic acid	65-85-0	77155	383401	ND	ND
Benzo(g,h,i)perylene	191-24-3	2374	10683	ND	ND
Benzo(a)pyrene	193-39-5	2374	11870	ND	ND
Benzyl alcohol	100-51-6	3561	17805	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3561	14244	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3561	16618	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5935	24927	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4748	23740	ND	ND
4-Bromophenyl-phenylether	101-55-3	4748	18992	ND	ND
Butylbenzylphthalate	85-68-7	5935	24927	ND	ND
4-Chloroaniline	106-47-8	3561	14244	ND	ND
4-Chloro-3-methylphenol	59-50-7	7122	32049	ND	ND
2-Chloronaphthalene	91-58-7	3561	13057	ND	ND
2-Chlorophenol	95-57-8	2374	11870	ND	ND
4-Chlorophenyl-phenylether	59-50-7	7122	32049	ND	ND
Chrysene	218-01-9	4748	22553	ND	ND
Dibenz(a,h)anthracene	53-70-3	2374	10683	ND	ND
Dibenzofuran	132-64-9	5935	29675	ND	ND
Di-n-butylphthalate	84-74-2	3561	14244	ND	ND
1,2-Dichlorobenzene	95-50-1	2374	11870	ND	ND
1,3-Dichlorobenzene	541-73-1	3561	15431	ND	ND
1,4-Dichlorobenzene	106-46-7	3561	14244	ND	ND
3,3'-Dichlorobenzidine	91-94-1	8309	39171	ND	ND
2,4-Dichlorophenol	120-83-2	5935	24927	ND	ND
Diethylphthalate	84-66-2	4748	23740	ND	ND
2,4-Dimethylphenol	105-67-9	7122	32049	ND	ND
Dimethylphthalate	131-11-3	4748	18992	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	113952	566199	ND	ND
2,4-Dinitrophenol	51-28-5	180424	898559	ND	ND
2,4-Dinitrotoluene	121-14-2	30862	151936	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301531

Gary Bugenhagen

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-3

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 22:30, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 11870
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	30862	151936	ND	ND
Di-n-octylphthalate	117-84-0	8309	37984	ND	ND
Fluoranthene	206-44-0	2374	9496	4200 E	ND
Fluorene	7782-41-4	5935	29675	ND	ND
Hexachlorobenzene	118-74-1	7122	32049	ND	ND
Hexachlorobutadiene	87-68-3	4748	20179	ND	ND
Hexachlorocyclopentadiene	77-47-4	21366	104456	ND	ND
Hexachloroethane	67-72-1	8309	36797	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3561	15431	ND	ND
Isophorone	78-59-1	3561	17805	ND	ND
2-Methylnaphthalene	91-57-6	2374	11870	29000	ND
2-Methylphenol	95-48-7	3561	15431	ND	ND
4-Methylphenol	106-44-5	4748	17805	ND	ND
Naphthalene	91-57-6	2374	7122	18000	ND
2-Nitroaniline	88-74-4	5935	26114	ND	ND
3-Nitroaniline	99-09-3	20179	100895	ND	ND
4-Nitroaniline	100-01-6	10683	49854	ND	ND
Nitrobenzene	98-95-3	3561	17805	ND	ND
2-Nitrophenol	88-75-5	7122	33236	ND	ND
4-Nitrophenol	100-01-6	77155	382214	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2374	9496	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	4748	23740	ND	ND
Pentachlorophenol	87-86-5	91399	458182	ND	ND
Phenanthrene	85-01-8	2374	9496	14000	ND
Phenol	108-95-2	3561	16618	ND	ND
Pyrene	129-00-0	5935	28488	6800 E	ND
1,2,4-Trichlorobenzene	120-82-1	4748	22553	ND	ND
2,4,5-Trichlorophenol	95-95-4	16618	83090	ND	ND
2,4,6-Trichlorophenol	88-06-02	24927	124635	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		73	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		75	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		60	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		82	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		64	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		77	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Gracy Kuzguner

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21035-4

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 23:17, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 13030
Extract Method 3550
% SOLID: 75

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	5212	26060	ND	ND
Acenaphthylene	208-96-8	6515	27363	ND	ND
Anthracene	120-12-7	3909	16939	ND	ND
Benzo(a)anthracene	56-55-3	2606	13030	8000 E	ND
Benzo(b)fluoranthene	205-99-2	3909	15636	ND	ND
Benzo(k)fluoranthene	207-08-9	2606	10424	ND	ND
Benzoic acid	65-85-0	84695	420869	ND	ND
Benzo(g,h,i)perylene	191-24-3	2606	11727	ND	ND
Benzo(a)pyrene	193-39-5	2606	13030	ND	ND
Benzyl alcohol	100-51-6	3909	19545	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3909	15636	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3909	18242	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	6515	27363	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	5212	26060	ND	ND
4-Bromophenyl-phenylether	101-55-3	5212	20848	ND	ND
Butylbenzylphthalate	85-68-7	6515	27363	ND	ND
4-Chloroaniline	106-47-8	3909	15636	ND	ND
4-Chloro-3-methylphenol	59-50-7	7818	35181	ND	ND
2-Chloronaphthalene	91-58-7	3909	14333	ND	ND
2-Chlorophenol	95-57-8	2606	13030	ND	ND
4-Chlorophenyl-phenylether	59-50-7	7818	35181	ND	ND
Chrysene	218-01-9	5212	24757	ND	ND
Dibenz(a,h)anthracene	53-70-3	2606	11727	ND	ND
Dibenzofuran	132-64-9	6515	32575	ND	ND
Di-n-butylphthalate	84-74-2	3909	15636	ND	ND
1,2-Dichlorobenzene	95-50-1	2606	13030	ND	ND
1,3-Dichlorobenzene	541-73-1	3909	16939	ND	ND
1,4-Dichlorobenzene	106-46-7	3909	15636	ND	ND
3,3'-Dichlorobenzidine	91-94-1	9121	42999	ND	ND
2,4-Dichlorophenol	120-83-2	6515	27363	ND	ND
Diethylphthalate	84-66-2	5212	26060	ND	ND
2,4-Dimethylphenol	105-67-9	7818	35181	ND	ND
Dimethylphthalate	131-11-3	5212	20848	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	125088	621531	ND	ND
2,4-Dinitrophenol	51-28-5	198056	986371	ND	ND
2,4-Dinitrotoluene	121-14-2	33878	166784	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Mary Bergeron

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-4

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/25/92 23:17, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 13030
Extract Method 3550
% SOLID: 75

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	33878	166784	ND	ND
Di-n-octylphthalate	117-84-0	9121	41696	ND	ND
Fluoranthene	206-44-0	2606	10424	5000 E	ND
Fluorene	7782-41-4	6515	32575	ND	ND
Hexachlorobenzene	118-74-1	7818	35181	ND	ND
Hexachlorobutadiene	87-68-3	5212	22151	ND	ND
Hexachlorocyclopentadiene	77-47-4	23454	114664	ND	ND
Hexachloroethane	67-72-1	9121	40393	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3909	16939	ND	ND
Isophorone	78-59-1	3909	19545	ND	ND
2-Methylnaphthalene	91-57-6	2606	13030	33000	ND
2-Methylphenol	95-48-7	3909	16939	ND	ND
4-Methylphenol	106-44-5	5212	19545	ND	ND
Naphthalene	91-57-6	2606	7818	19000	ND
2-Nitroaniline	88-74-4	6515	28666	ND	ND
3-Nitroaniline	99-09-3	22151	110755	ND	ND
4-Nitroaniline	100-01-6	11727	54726	ND	ND
Nitrobenzene	98-95-3	3909	19545	ND	ND
2-Nitrophenol	88-75-5	7818	36484	ND	ND
4-Nitrophenol	100-01-6	84695	419566	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2606	10424	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	5212	26060	ND	ND
Pentachlorophenol	87-86-5	100331	502958	ND	ND
Phenanthrene	85-01-8	2606	10424	13000	ND
Phenol	108-95-2	3909	18242	ND	ND
Pyrene	129-00-0	6515	31272	<MDL	ND
1,2,4-Trichlorobenzene	120-82-1	5212	24757	ND	ND
2,4,5-Trichlorophenol	95-95-4	18242	91210	ND	ND
2,4,6-Trichlorophenol	88-06-02	27363	136815	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		60	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		62	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		51	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		70	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		51	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		63	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Stacy Buggs

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-5

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/26/92 0:03, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 10685
Extract Method 3550
% SOLID: 90

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4274	21370	ND	ND
Acenaphthylene	208-96-8	5343	22439	ND	ND
Anthracene	120-12-7	3206	13891	ND	ND
Benzo(a)anthracene	56-55-3	2137	10685	7500 E	ND
Benzo(b)fluoranthene	205-99-2	3206	12822	ND	ND
Benzo(k)fluoranthene	207-08-9	2137	8548	ND	ND
Benzoic acid	65-85-0	69453	345126	ND	ND
Benzo(g,h,i)perylene	191-24-3	2137	9617	ND	ND
Benzo(a)pyrene	193-39-5	2137	10685	ND	ND
Benzyl alcohol	100-51-6	3206	16028	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3206	12822	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3206	14959	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5343	22439	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4274	21370	ND	ND
4-Bromophenyl-phenylether	101-55-3	4274	17096	ND	ND
Butylbenzylphthalate	85-68-7	5343	22439	ND	ND
4-Chloroaniline	106-47-8	3206	12822	ND	ND
4-Chloro-3-methylphenol	59-50-7	6411	28850	ND	ND
2-Chloronaphthalene	91-58-7	3206	11754	ND	ND
2-Chlorophenol	95-57-8	2137	10685	ND	ND
4-Chlorophenyl-phenylether	59-50-7	6411	28850	ND	ND
Chrysene	218-01-9	4274	20302	ND	ND
Dibenz(a,h)anthracene	53-70-3	2137	9617	ND	ND
Dibenzofuran	132-64-9	5343	26713	ND	ND
Di-n-butylphthalate	84-74-2	3206	12822	ND	ND
1,2-Dichlorobenzene	95-50-1	2137	10685	ND	ND
1,3-Dichlorobenzene	541-73-1	3206	13891	ND	ND
1,4-Dichlorobenzene	106-46-7	3206	12822	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7480	35261	ND	ND
2,4-Dichlorophenol	120-83-2	5343	22439	ND	ND
Diethylphthalate	84-66-2	4274	21370	ND	ND
2,4-Dimethylphenol	105-67-9	6411	28850	ND	ND
Dimethylphthalate	131-11-3	4274	17096	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	102576	509675	ND	ND
2,4-Dinitrophenol	51-28-5	162412	808855	ND	ND
2,4-Dinitrotoluene	121-14-2	27781	136768	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Stacy Bergeron

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-5

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/26/92 0:03, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 10685
Extract Method 3550
% SOLID: 90

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	27781	136768	ND	ND
Di-n-octylphthalate	117-84-0	7480	34192	ND	ND
Fluoranthene	206-44-0	2137	8548	4300 E	ND
Fluorene	7782-41-4	5343	26713	ND	ND
Hexachlorobenzene	118-74-1	6411	28850	ND	ND
Hexachlorobutadiene	87-68-3	4274	18165	ND	ND
Hexachlorocyclopentadiene	77-47-4	19233	94028	ND	ND
Hexachloroethane	67-72-1	7480	33124	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3206	13891	ND	ND
Isophorone	78-59-1	3206	16028	ND	ND
2-Methylnaphthalene	91-57-6	2137	10685	27000	ND
2-Methylphenol	95-48-7	3206	13891	ND	ND
4-Methylphenol	106-44-5	4274	16028	ND	ND
Naphthalene	91-57-6	2137	6411	15000	ND
2-Nitroaniline	88-74-4	5343	23507	ND	ND
3-Nitroaniline	99-09-3	18165	90823	ND	ND
4-Nitroaniline	100-01-6	9617	44877	ND	ND
Nitrobenzene	98-95-3	3206	16028	ND	ND
2-Nitrophenol	88-75-5	6411	29918	ND	ND
4-Nitrophenol	100-01-6	69453	344057	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2137	8548	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	4274	21370	ND	ND
Pentachlorophenol	87-86-5	82275	412441	ND	ND
Phenanthrene	85-01-8	2137	8548	13000	ND
Phenol	108-95-2	3206	14959	ND	ND
Pyrene	129-00-0	5343	25644	6000 E	ND
1,2,4-Trichlorobenzene	120-82-1	4274	20302	ND	ND
2,4,5-Trichlorophenol	95-95-4	14959	74795	ND	ND
2,4,6-Trichlorophenol	88-06-02	22439	112193	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		63	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		65	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		54	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		72	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		56	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		70	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Stacy Bugeau

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21035-6

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/26/92 0:49, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 13140
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	5256	26280	ND	ND
Acenaphthylene	208-96-8	6570	27594	ND	ND
Anthracene	120-12-7	3942	17082	ND	ND
Benzo(a)anthracene	56-55-3	2628	13140	8100 E	ND
Benzo(b)fluoranthene	205-99-2	3942	15768	ND	ND
Benzo(k)fluoranthene	207-08-9	2628	10512	ND	ND
Benzoic acid	65-85-0	85410	424422	ND	ND
Benzo(g,h,i)perylene	191-24-3	2628	11826	ND	ND
Benzo(a)pyrene	193-39-5	2628	13140	ND	ND
Benzyl alcohol	100-51-6	3942	19710	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	3942	15768	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3942	18396	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	6570	27594	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	5256	26280	ND	ND
4-Bromophenyl-phenylether	101-55-3	5256	21024	ND	ND
Butylbenzylphthalate	85-68-7	6570	27594	ND	ND
4-Chloroaniline	106-47-8	3942	15768	ND	ND
4-Chloro-3-methylphenol	59-50-7	7884	35478	ND	ND
2-Chloronaphthalene	91-58-7	3942	14454	ND	ND
2-Chlorophenol	95-57-8	2628	13140	ND	ND
4-Chlorophenyl-phenylether	59-50-7	7884	35478	ND	ND
Chrysene	218-01-9	5256	24966	ND	ND
Dibenz(a,h)anthracene	53-70-3	2628	11826	ND	ND
Dibenzofuran	132-64-9	6570	32850	ND	ND
Di-n-butylphthalate	84-74-2	3942	15768	ND	ND
1,2-Dichlorobenzene	95-50-1	2628	13140	ND	ND
1,3-Dichlorobenzene	541-73-1	3942	17082	ND	ND
1,4-Dichlorobenzene	106-46-7	3942	15768	ND	ND
3,3'-Dichlorobenzidine	91-94-1	9198	43362	ND	ND
2,4-Dichlorophenol	120-83-2	6570	27594	ND	ND
Diethylphthalate	84-66-2	5256	26280	ND	ND
2,4-Dimethylphenol	105-67-9	7884	35478	ND	ND
Dimethylphthalate	131-11-3	5256	21024	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	126144	626778	ND	ND
2,4-Dinitrophenol	51-28-5	199728	994698	ND	ND
2,4-Dinitrotoluene	121-14-2	34164	168192	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301537

Stacy Berggren

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-6

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init) : 10/14/93, 14:00, PF
ANALYSIS (Date/Time/Init): 11/26/92 0:49, TAG
EXTRACTION (Date / Init) : 10/19/92, ECT

DATE REPORTED: 1/18/92

Dilution Factor: 13140
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	34164	168192	ND	ND
Di-n-octylphthalate	117-84-0	9198	42048	ND	ND
Fluoranthene	206-44-0	2628	10512	4100 E	ND
Fluorene	7782-41-4	6570	32850	ND	ND
Hexachlorobenzene	118-74-1	7884	35478	ND	ND
Hexachlorobutadiene	87-68-3	5256	22338	ND	ND
Hexachlorocyclopentadiene	77-47-4	23652	115632	ND	ND
Hexachloroethane	67-72-1	9198	40734	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	3942	17082	ND	ND
Isophorone	78-59-1	3942	19710	ND	ND
2-Methylnaphthalene	91-57-6	2628	13140	29000	ND
2-Methylphenol	95-48-7	3942	17082	ND	ND
4-Methylphenol	106-44-5	5256	19710	ND	ND
Naphthalene	91-57-6	2628	7884	16000	ND
2-Nitroaniline	88-74-4	6570	28908	ND	ND
3-Nitroaniline	99-09-3	22338	111690	ND	ND
4-Nitroaniline	100-01-6	11826	55188	ND	ND
Nitrobenzene	98-95-3	3942	19710	ND	ND
2-Nitrophenol	88-75-5	7884	36792	ND	ND
4-Nitrophenol	100-01-6	85410	423108	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2628	10512	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	5256	26280	ND	ND
Pentachlorophenol	87-86-5	101178	507204	ND	ND
Phenanthrene	85-01-8	2628	10512	12000	ND
Phenol	108-95-2	3942	18396	ND	ND
Pyrene	129-00-0	6570	31536	7000 E	ND
1,2,4-Trichlorobenzene	120-82-1	5256	24966	ND	ND
2,4,5-Trichlorophenol	95-95-4	18396	91980	ND	ND
2,4,6-Trichlorophenol	88-06-02	27594	137970	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		61	73
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		67	78
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		58	63
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		76	70
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		57	39
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		69	74

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Stacy Bergman

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21035-2MS

DOUGLASSVILLE - BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/25/92, 21:44, TAG
EXTRACTED (Date/Init): 10/19/92, SC

DATA REPORTED: 11/27/92

Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	31- 137	74
4-Chloro-3-methylphenol	59-50-7	26- 103	77
2-Chlorophenol	95-57-8	25- 102	76
1,4-Dichlorobenzene	106-46-7	28- 104	63
2,4-Dinitrotoluene	121-14-2	28- 89	45
4-Nitrophenol	100-02-7	11- 114	34
N-Nitoso-di-n-propylamine	621-64-7	41- 126	73
Pentachlorophenol	87-86-5	17- 109	66
Phenol	108-95-2	26- 90	71
Pyrene	129-00-0	35- 142	84
1,2,4-Trichlorobenzene	120-82-1	38- 107	68
2-Fluorophenol	% Recovery	[OK=25-121]	75
Phenol-d5	% Recovery	[OK=24-113]	77
Nitrobenzene-d5	% Recovery	[OK=23-120]	58
2-Fluorobiphenyl	% Recovery	[OK=30-115]	74
2,4,6-Tribromophenol	% Recovery	[OK=19-122]	66
Terphenyl-d14	% Recovery	[OK=18-137]	67

Michael Hyr

TPH Analyses

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-1

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/19/92, 18:29, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-2

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/20/92, 18:57, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-3

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/19/92, 19:25, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDOCARBONS

Michael Hy

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-4

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/19/92, 19:53, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS

Michael Hyn

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-5

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/19/92, 20:21, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS

Michael Hyz

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-6

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE - BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00 PF
ANALYSIS (Date/Time/Init): 10/19/92, 20:49, KMC

DATE REPORTED: 10/26/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS

Michael Hyn

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92, 03:19, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	300,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hazen

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92: 04:38, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	280,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92, 05:57, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	290,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael P Hyn

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92, 07:16, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	280,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92, 08:35, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	360,000	ND

ND: Not Detected
MDL: Method Detection Limit

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21035-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE - BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
EXTRACTED (Date / Init) : 10/22/92, RGB
ANALYSIS (Date/Time/Init): 10/31/92, 02:80, RGB

DATE REPORTED: 11/4/92

MATRIX : SOLID
METHOD : CAL-DHS

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	340,000	ND

ND: Not Detected
MDL: Method Detection Limit

Total PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-1

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1224
Extract Method: 3550
% Solids: 81.7

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1224	ND	ND
Aroclor-1221	11104-28-2	1224	ND	ND
Aroclor-1232	11141-16-5	1224	ND	ND
Aroclor-1242	53469-21-9	1224	ND	ND
Aroclor-1248	12672-29-6	1224	ND	ND
Aroclor-1254	11097-69-1	1224	ND	ND
Aroclor-1260	11096-82-5	1224	17,000	ND
Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	64	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-2

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1248
Extract Method: 3550
% Solids: 80.1

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1248	ND	ND
Aroclor-1221	11104-28-2	1248	ND	ND
Aroclor-1232	11141-16-5	1248	ND	ND
Aroclor-1242	53469-21-9	1248	ND	ND
Aroclor-1248	12672-29-6	1248	ND	ND
Aroclor-1254	11097-69-1	1248	ND	ND
Aroclor-1260	11096-82-5	1248	17,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	119	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hey

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-3

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1235
Extract Method: 3550
% Solids: 81.0

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1235	ND	ND
Aroclor-1221	11104-28-2	1235	ND	ND
Aroclor-1232	11141-16-5	1235	ND	ND
Aroclor-1242	53469-21-9	1235	ND	ND
Aroclor-1248	12672-29-6	1235	ND	ND
Aroclor-1254	11097-69-1	1235	ND	ND
Aroclor-1260	11096-82-5	1235	15,000	ND
Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	36	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael P Hyg

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-4

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1342
Extract Method: 3550
% Solids: 74.5

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1342	ND	ND
Aroclor-1221	11104-28-2	1342	ND	ND
Aroclor-1232	11141-16-5	1342	ND	ND
Aroclor-1242	53469-21-9	1342	ND	ND
Aroclor-1248	12672-29-6	1342	ND	ND
Aroclor-1254	11097-69-1	1342	ND	ND
Aroclor-1260	11096-82-5	1342	20,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	113	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hy

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-5

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1111
Extract Method: 3550
% Solids: 90.0

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1111	ND	ND
Aroclor-1221	11104-28-2	1111	ND	ND
Aroclor-1232	11141-16-5	1111	ND	ND
Aroclor-1242	53469-21-9	1111	ND	ND
Aroclor-1248	12672-29-6	1111	ND	ND
Aroclor-1254	11097-69-1	1111	ND	ND
Aroclor-1260	11096-82-5	1111	14,000	ND
Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	132	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hyn

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-6

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 10/14/92, 14:00, PF
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 10/20/92, ET

DATE REPORTED: 12/18/92

Quant Factor: 1314
Extract Method: 3550
% Solids: 76.1

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	1314	ND	ND
Aroclor-1221	11104-28-2	1314	ND	ND
Aroclor-1232	11141-16-5	1314	ND	ND
Aroclor-1242	53469-21-9	1314	ND	ND
Aroclor-1248	12672-29-6	1314	ND	ND
Aroclor-1254	11097-69-1	1314	ND	ND
Aroclor-1260	11096-82-5	1314	19,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	93	50

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hay

TCLP PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-1

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	30	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hey

AR301561

IBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-2

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	39	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hay

AR301562

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-3

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	77	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-4

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	49	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-5

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	30	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301565

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-6

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	76	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301566

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21035-TB

GC PCB RESULTS

DOUGLASSVILLE - BIO
SAMPLE # Q2101901
TCLP BLANK

SAMPLED (Date/Time/Init): 10/14/92, 14;00, PF
TCLP Extraction (Date/Init): 10/20/92, EC
ANALYSIS (Date/Time/Init): 12/3/92, AAL
EXTRACTED (Date / Init) : 12/2/92, AAL

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

DATE REPORTED:12/18/92

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	69	59

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hazen

KIBER
ENVIRONMENTAL SERVICES, INC.

19 November 1992

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Eight Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week eight samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 29 October 1992 via Federal Express. The analyses conducted were in accordance with a telefax from Barr dated 30 October 1992. Included with this letter are results for the following analyses:

- TPH by 5520 C & F
- Moisture by ASTM D 95

If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ226

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Chain of Custody

..ore...diati... Serv..., Inc.
P.O. Box 2010 • Lake Oswego, OR 97035-0012 • (503) ...464/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory Kiber
Lab Project No. Week 8
Date 10/28/92

Project Manager DAVID EMERY
Project No. 38/06-001-RAM-0B
Project Name Douglasville Treatability Study

[X] Bill Committee Direct
[ ] Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C Yes [ ] No [ ]
Appropriate Containers Used Yes [ ] No [ ]
Provide Verbal Results Yes [ ] No [ ]
Provide Preliminary FAX Results Yes [X] No [ ]

Comments: Temp - 14°C 10/28/92 SH

Analyses To Be Performed

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	5520 C&E	ASTM #E123													KES # Remarks: 21060
A-1		✓	10/28	3:45	TRAY A-1	1	✓	✓													21060-1
A-2		✓			TRAY A-2	1	✓														2
A-3		✓			TRAY A-3	1	✓														3
B-1		✓			TRAY B-1	1	✓	✓													4
B-2		✓			TRAY B-2	1	✓														5
B-3		✓			TRAY B-3	1	✓														6
AC-1		✓			TRAY AC-1	1	✓	✓													7
AC-2		✓			TRAY AC-2	1	✓														8
AC-3		✓			TRAY AC-3	1	✓														9
BC-1		✓			TRAY BC-1	1	✓	✓													10
BC-2		✓			TRAY BC-2	1	✓														11
BC-3		✓		✓	TRAY BC-3	1	✓														12

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	10/28/92	4:15			10/29/92	10:18	
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)				
Witnessed by: (Signature)	Date	Time					

Remarks: Express Data as received

AR301570

Analytical Results

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21060

ANALYTICAL RESULTS

DOUGLASSVILLE BIO

MATRIX: SOIL
SAMPLED (Date/Time/Init): 10/28/92, 15:45, BSI
ANALYSIS (Date/Init) : 11/9/92, AAL

DATE REPORTED: 11/11/92

KES SAMPLE #	SAMPLE ID #	Oil & Grease (5520-C)	Hydrocarbons (5520-F)	% Moisture (ASTM D-95)
21060-1	A-1	46%	35%	19.6%
21060-4	B-1	44%	31%	19.2%
21060-7	AC-1	37%	31%	16.0%
21060-10	BC-1	37%	31%	16.0%

Michael Hayes

KIBER
ENVIRONMENTAL SERVICES, INC.

26 January 1993

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Nine Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week nine samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 5 November 1992 via Federal Express. The analyses conducted were in accordance with Table 2 of the Quality Assurance Project Plan developed by Barr dated July 1992. Included with this letter are results for the following analyses:

- TPH Volatiles and Semivolatiles
- TCLP PCBs

Please note that any quality assurance information for each of the analyses specified in the Quality Assurance Project Plan, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ264

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Chain of Custody

Bioremediation Service, Inc.
P.O. Box 2010 • Lake Oswego, OR 97035-0012 • (503) 624-9464/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory KIBER
Lab Project No. WEEK 9
Date 11-4-92

Project Manager DAVE EMERY
Project No. 38106-001-RAM-06
Project Name DOUGLASSVILLE TREATABILITY STUDY

☐ Bill BARR ENGINEERING
☐ Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C Yes ☐ No ☐ Provide Verbal Results Yes ☐ No ☐
Appropriate Containers Used Yes ☐ No ☐ Provide Preliminary FAX Results Yes ☑ No ☐

Comments:

Analyses To Be Performed

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	TPH 8015	PCB-TCLP 8080	KES # Remarks: 21105
A-1		✓	11-4-92	2100	TRAY A-1		✓	✓	21105-1
A-2		✓			TRAY A-2		✓	✓	-2
A-3		✓			TRAY A-3		✓	✓	-3
B-1		✓			TRAY B-1		✓	✓	-4
B-2		✓			TRAY B-2		✓	✓	-5
B-3		✓	✓	✓	TRAY B-3		✓	✓	-6

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	11-4-92	3:15	[signature]
Witnessed by: (Signature)	Date	Time	
			11/5/92 10:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Witnessed by: (Signature)	Date	Time	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Witnessed by: (Signature)	Date	Time	

Remarks:

Temp 14°C 11/5/92 SH

AR301575

TPH Analyses

Case Narrative for Volatile Analysis

Project Name: Douglassville - Bio

Project Number: 21108

Analysis: TPH Volatile - 8015

- Six soils sampled on 11-4-92 at 14:00 were received by the Analytical Department on 11-5-92. The analyses were put on hold until the week of 11-30-92. Due to the holding time of two weeks for volatiles these samples were analyzed after holding times at the client's request. The sample was analyzed by method CAL-DHS Volatiles (8015M) on a Hewlett-Packard 5970B MSD.
- The Method Detection Limits (MDLs) on the results form reflect the sample analysis amount.
- There were no apparent problems during analysis.

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-1

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 20:54, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-2

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 21:22, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-3

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 21:49, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-4

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 22:17, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

AR301581

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-5

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 22:45, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-6

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/3/92, 23:13, KMC

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-1 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/3/92, 06:37, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	150,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-2 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/3/92, 08:54, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	120,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-3 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/3/92, 12:22, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	160,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-1 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/13/92, 13:33, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	200,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-2 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/3/92, 15:58, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	150,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 21108-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-3 (WEEK 9)

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
EXTRACTED (Date / Init) : 11/17/92, DLL
ANALYSIS (Date/Time/Init): 12/3/92, 18:23, RGB

DATE REPORTED: 12/4/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	180,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

TCLP PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-1

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	58	78

NA: Not Added
E: Estimated, ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-2

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	57	78

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-3

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	63	78

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-4

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	63	78

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301594

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-5

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	95	78

NA: Not Added
E: Estimated, ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-6

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND
Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	72	78

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21108-BLANK

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # 21108-BLANK
TCLP BLANK

SAMPLED (Date/Time/Init): 11/4/92, 14:00, BSI
TCLP Extraction (Date/Init): 11/18/92, JD
ANALYSIS (Date/Time/Init): 12/2/92, AAL
EXTRACTED (Date / Init) : 12/1/92, AAL

DATE REPORTED: 12/18/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	1.0	ND	ND
Aroclor-1221	11104-28-2	1.0	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	1.0	ND	ND
Aroclor-1248	12672-29-6	1.0	ND	ND
Aroclor-1254	11097-69-1	1.0	ND	ND
Aroclor-1260	11096-82-5	1.0	ND	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	44	78

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER
ENVIRONMENTAL SERVICES, INC.

26 January 1993

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Twelve Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week twelve samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 2 December 1992 via Federal Express. The analyses conducted were in accordance with Table 2 of the Quality Assurance Project Plan developed by Barr dated July 1992. Included with this letter are results for the following analyses:

- Total Semivolatiles
- Total PCBs
- TPH Volatiles and Semivolatiles
- TCLP Volatiles
- TCLP Semivolatiles
- TCLP PCBs
- TCLP Lead

On 20 January 1993, Kiber was requested to perform GPC clean-up on the extracts generated for the total semivolatile analyses. Kiber has included the results for the analyses prior to GPC. Upon completion of the clean-up process and the semivolatile analyses, Kiber will submit these results to Barr. Kiber anticipates that these results will be completed by 29 January 1993.

512/SZ265

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Please note that any quality assurance information for each of the analyses specified in the Quality Assurance Project Plan, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ265

Chain of Custody

...ren ...atic ...erv... Inc
P.O. Box 2010 • Lake Oswego, OR 97035-0012 • (503) 624-9464/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory: Kiber
Lab Project No.: WK 12
Date: 12-2-92

Project Manager: Dave Emery
Project No.: 38106-001-RAM-06
Project Name: Douglas Wire Treatability Study

☐ Bill _____
☐ Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C: Yes ☐ No ☑
Provide Verbal Results: Yes ☐ No ☐
Appropriate Containers Used: Yes ☐ No ☐
Provide Preliminary FAX Results: Yes ☑ No ☐

Comments:

Analyses To Be Performed: TPH 8015, PCB, TCLP 8010

21207

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	TPH 8015	PCB	TCLP 8010	Remarks:
A-1		✓	12/2/92	2:00	Tray A-1		✓	✓		21207-1 SI 12/3/92
A-2		✓	12/2/92		Tray A-2		✓	✓		2 1
A-3		✓	12/2/92		Tray A-3		✓	✓		3 2
AC-1		✓	12/2/92		Tray AC-1		✓	✓		4 3
AC-2		✓	12/2/92		Tray AC-2		✓	✓		5 4
AC-3		✓	12/2/92		Tray AC-3		✓	✓		6 5
B-1		✓	12/2/92		Tray B-1		✓	✓		7 6
B-2		✓	12/2/92		Tray B-2		✓	✓		8 7
B-3		✓	12/2/92		Tray B-3		✓	✓		9 8
BC-1		✓	12/2/92		Tray BC-1		✓	✓		10 9
BC-2		✓	12/2/92		Tray BC-2		✓	✓		11 10
BC-3		✓	12/2/92		Tray BC-3		✓	✓		12 11
										13 12

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	12-2-92	2:15	[signature] 11:20
Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Witnessed by: (Signature)	Date	Time	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Witnessed by: (Signature)	Date	Time	

Remarks:

AR301601

...nen... ...atic... ...erv... Inc
P.O. Box 2010 • Lake Oswego, OR 97035-0012 • (503) ... 464/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory Kibar
Lab Project No. Wear 12
Date 12-2-92

Project Manager Dave Emery
Project No. 38106-001-RHM-06
Project Name Douglasville Instability Study

☐ Bill _____
☐ Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C Yes ☐ No ☑ Provide Verbal Results Yes ☐ No ☐
Appropriate Containers Used Yes ☐ No ☐ Provide Preliminary FAX Results Yes ☑ No ☐

Comments:

Analyses To Be Performed: Semi-Vol 8270, PCB 8080

21207

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	Semi-Vol 8270	PCB 8080	Remarks:
A-1		✓	12/2/92	2:00	Tray A-1		✓	✓	21207-1
A-2		✓	12/2/92		Tray A-2		✓	✓	2
A-3		✓	12/2/92		Tray A-3		✓	✓	3
AC-1		✓	12/2/92		Tray AC-1		✓	✓	4
AC-2		✓	12/2/92		Tray AC-2		✓	✓	5
AC-3		✓	12/2/92		Tray AC-3		✓	✓	6
B-1		✓	12/2/92		Tray B-1		✓	✓	7
B-2		✓	12/2/92		Tray B-2		✓	✓	8
B-3		✓	12/2/92		Tray B-3		✓	✓	9
BC-1		✓	12/2/92		Tray BC-1		✓	✓	10
BC-2		✓	12/2/92		Tray BC-2		✓	✓	11
BC-3		✓	12/2/92		Tray BC-3		✓	✓	12

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	12-2-92	4:15	[signature] 12/3/92 11:30				
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks:			
Witnessed by: (Signature)	Date	Time					

AR301602

P.O. Box 2010 • Lake Oswego, OR 97035-0012 • (503) 624-9464/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory: Kiber
Lab Project No.: Week 12
Date: 12-2-92

Project Manager: Dave Emery
Project No.: 38106-001-RAM-06
Project Name: Douglasville Treatability Study

☐ Bill _____
☐ Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C Yes ☐ No ☑ Provide Verbal Results Yes ☐ No ☐
Appropriate Containers Used Yes ☐ No ☐ Provide Preliminary FAX Results Yes ☑ No ☐

Comments:

Analyses To Be Performed: TCLP

21207 Remarks:

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	TCLP	Remarks:
A-1		✓	12/2/92	2:00	Tray A-1		✓	21207-1
A-2		✓	12/2/92		Tray A-2		✓	2
A-3		✓	12/2/92		Tray A-3		✓	3
B-1		✓	12/2/92		Tray B-1		✓	7
B-2		✓	12/2/92		Tray B-2		✓	8
B-3		✓	12/2/92	✓	Tray B-3		✓	9

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	12-2-92	4:15					
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks:			
Witnessed by: (Signature)	Date	Time					

AR301603

Total Semivolatiles

Case Narrative for Semivolatile Analysis
DOUGLASSVILLE-BIO
Project No. 21207

Project Name: DOUGLASSVILLE-BIO

Project Number: 21207

Analysis: Semivolatiles

- There were twelve soil samples received on 12/2/92. The test requested was a total semivolatile analysis. The samples were analyzed by method SW-846-8270 on a Hewlett-Packard 5970B MSD.

- The Practical Quantitation Limits (PQLs) and the Method Detection Limits (MDLs) on the results form take into consideration the initial sample amount and percent solids.

- All samples were extracted on 12/15/92, except 21207-11 which was extracted on 12/21/92. There were no apparent problems during analyses; however, the matrix spike duplicate sample was run 8 minutes beyond the 12 hour DFTPP tune. Because of the oily nature of the sample, its impact on the instrument column is considered detrimental; therefore, the sample was not re-analyzed.

- Unless otherwise noted, Kiber will return samples within thirty days after all samples are analyzed.

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-1

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 17:50, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8249
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3300	16498	ND	ND
Acenaphthylene	208-96-8	4125	17323	ND	ND
Anthracene	120-12-7	2475	10724	ND	ND
Benzo(a)anthracene	56-55-3	1650	8249	ND	ND
Benzo(b)fluoranthene	205-99-2	2475	9899	ND	ND
Benzo(k)fluoranthene	207-08-9	1650	6599	ND	ND
Benzoic acid	65-85-0	53619	266443	ND	ND
Benzo(g,h,i)perylene	191-24-3	1650	7424	ND	ND
Benzo(a)pyrene	193-39-5	1650	8249	ND	ND
Benzyl alcohol	100-51-6	2475	12374	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2475	9899	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2475	11549	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4125	17323	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3300	16498	ND	ND
4-Bromophenyl-phenylether	101-55-3	3300	13198	ND	ND
Butylbenzylphthalate	85-68-7	4125	17323	ND	ND
4-Chloroaniline	106-47-8	2475	9899	ND	ND
4-Chloro-3-methylphenol	59-50-7	4949	22272	ND	ND
2-Chloronaphthalene	91-58-7	2475	9074	ND	ND
2-Chlorophenol	95-57-8	1650	8249	ND	ND
4-Chlorophenyl-phenylether	59-50-7	4949	22272	ND	ND
Chrysene	218-01-9	3300	15673	ND	ND
Dibenz(a,h)anthracene	53-70-3	1650	7424	ND	ND
Dibenzofuran	132-64-9	4125	20623	ND	ND
Di-n-butylphthalate	84-74-2	2475	9899	ND	ND
1,2-Dichlorobenzene	95-50-1	1650	8249	ND	ND
1,3-Dichlorobenzene	541-73-1	2475	10724	ND	ND
1,4-Dichlorobenzene	106-46-7	2475	9899	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5774	27222	ND	ND
2,4-Dichlorophenol	120-83-2	4125	17323	ND	ND
Diethylphthalate	84-66-2	3300	16498	ND	ND
2,4-Dimethylphenol	105-67-9	4949	22272	ND	ND
Dimethylphthalate	131-11-3	3300	13198	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	79190	393477	ND	ND
2,4-Dinitrophenol	51-28-5	125385	624449	ND	ND
2,4-Dinitrotoluene	121-14-2	21447	105587	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-1

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 17:50, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8249
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	21447	105587	ND	ND
Di-n-octylphthalate	117-84-0	5774	26397	ND	ND
Fluoranthene	206-44-0	1650	6599	ND	ND
Fluorene	7782-41-4	4125	20623	ND	ND
Hexachlorobenzene	118-74-1	4949	22272	ND	ND
Hexachlorobutadiene	87-68-3	3300	14023	ND	ND
Hexachlorocyclopentadiene	77-47-4	14848	72591	ND	ND
Hexachloroethane	67-72-1	5774	25572	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2475	10724	ND	ND
Isophorone	78-59-1	2475	12374	ND	ND
2-Methylnaphthalene	91-57-6	1650	8249	26000	ND
2-Methylphenol	95-48-7	2475	10724	ND	ND
4-Methylphenol	106-44-5	3300	12374	ND	ND
Naphthalene	91-57-6	1650	4949	15000	ND
2-Nitroaniline	88-74-4	4125	18148	ND	ND
3-Nitroaniline	99-09-3	14023	70117	ND	ND
4-Nitroaniline	100-01-6	7424	34646	ND	ND
Nitrobenzene	98-95-3	2475	12374	ND	ND
2-Nitrophenol	88-75-5	4949	23097	ND	ND
4-Nitrophenol	100-01-6	53619	265618	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1650	6599	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3300	16498	ND	ND
Pentachlorophenol	87-86-5	63517	318411	ND	ND
Phenanthrene	85-01-8	1650	6599	16000	ND
Phenol	108-95-2	2475	11549	ND	ND
Pyrene	129-00-0	4125	19798	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3300	15673	ND	ND
2,4,5-Trichlorophenol	95-95-4	11549	57743	ND	ND
2,4,6-Trichlorophenol	88-06-02	17323	86615	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hogan

AR301607

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-2

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 18:33, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8278
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3311	16556	ND	ND
Acenaphthylene	208-96-8	4139	17384	ND	ND
Anthracene	120-12-7	2483	10761	ND	ND
Benzo(a)anthracene	56-55-3	1656	8278	ND	ND
Benzo(b)fluoranthene	205-99-2	2483	9934	ND	ND
Benzo(k)fluoranthene	207-08-9	1656	6622	ND	ND
Benzoic acid	65-85-0	53807	267379	ND	ND
Benzo(g,h,i)perylene	191-24-3	1656	7450	ND	ND
Benzo(a)pyrene	193-39-5	1656	8278	ND	ND
Benzyl alcohol	100-51-6	2483	12417	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2483	9934	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2483	11589	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4139	17384	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3311	16556	ND	ND
4-Bromophenyl-phenylether	101-55-3	3311	13245	ND	ND
Butylbenzylphthalate	85-68-7	4139	17384	ND	ND
4-Chloroaniline	106-47-8	2483	9934	ND	ND
4-Chloro-3-methylphenol	59-50-7	4967	22351	ND	ND
2-Chloronaphthalene	91-58-7	2483	9106	ND	ND
2-Chlorophenol	95-57-8	1656	8278	ND	ND
4-Chlorophenyl-phenylether	59-50-7	4967	22351	ND	ND
Chrysene	218-01-9	3311	15728	ND	ND
Dibenz(a,h)anthracene	53-70-3	1656	7450	ND	ND
Dibenzofuran	132-64-9	4139	20695	ND	ND
Di-n-butylphthalate	84-74-2	2483	9934	ND	ND
1,2-Dichlorobenzene	95-50-1	1656	8278	ND	ND
1,3-Dichlorobenzene	541-73-1	2483	10761	ND	ND
1,4-Dichlorobenzene	106-46-7	2483	9934	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5795	27317	ND	ND
2,4-Dichlorophenol	120-83-2	4139	17384	ND	ND
Diethylphthalate	84-66-2	3311	16556	ND	ND
2,4-Dimethylphenol	105-67-9	4967	22351	ND	ND
Dimethylphthalate	131-11-3	3311	13245	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	79469	394861	ND	ND
2,4-Dinitrophenol	51-28-5	125826	626645	ND	ND
2,4-Dinitrotoluene	121-14-2	21523	105958	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-2

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 18:33, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8278
Extract Method 3550
% SOLID: 80

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	21523	105958	ND	ND
Di-n-octylphthalate	117-84-0	5795	26490	ND	ND
Fluoranthene	206-44-0	1656	6622	ND	ND
Fluorene	7782-41-4	4139	20695	ND	ND
Hexachlorobenzene	118-74-1	4967	22351	ND	ND
Hexachlorobutadiene	87-68-3	3311	14073	ND	ND
Hexachlorocyclopentadiene	77-47-4	14900	72846	ND	ND
Hexachloroethane	67-72-1	5795	25662	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2483	10761	ND	ND
Isophorone	78-59-1	2483	12417	ND	ND
2-Methylnaphthalene	91-57-6	1656	8278	26000	ND
2-Methylphenol	95-48-7	2483	10761	ND	ND
4-Methylphenol	106-44-5	3311	12417	ND	ND
Naphthalene	91-57-6	1656	4967	14000	ND
2-Nitroaniline	88-74-4	4139	18212	ND	ND
3-Nitroaniline	99-09-3	14073	70363	ND	ND
4-Nitroaniline	100-01-6	7450	34768	ND	ND
Nitrobenzene	98-95-3	2483	12417	ND	ND
2-Nitrophenol	88-75-5	4967	23178	ND	ND
4-Nitrophenol	100-01-6	53807	266552	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1656	6622	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3311	16556	ND	ND
Pentachlorophenol	87-86-5	63741	319531	ND	ND
Phenanthrene	85-01-8	1656	6622	15000	ND
Phenol	108-95-2	2483	11589	ND	ND
Pyrene	129-00-0	4139	19867	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3311	15728	ND	ND
2,4,5-Trichlorophenol	95-95-4	11589	57946	ND	ND
2,4,6-Trichlorophenol	88-06-02	17384	86919	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301609

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-3

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 19:16, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8238
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3295	16476	ND	ND
Acenaphthylene	208-96-8	4119	17300	ND	ND
Anthracene	120-12-7	2471	10709	ND	ND
Benzo(a)anthracene	56-55-3	1648	8238	ND	ND
Benzo(b)fluoranthene	205-99-2	2471	9886	ND	ND
Benzo(k)fluoranthene	207-08-9	1648	6590	ND	ND
Benzoic acid	65-85-0	53547	266087	ND	ND
Benzo(g,h,i)perylene	191-24-3	1648	7414	ND	ND
Benzo(a)pyrene	193-39-5	1648	8238	ND	ND
Benzyl alcohol	100-51-6	2471	12357	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2471	9886	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2471	11533	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4119	17300	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3295	16476	ND	ND
4-Bromophenyl-phenylether	101-55-3	3295	13181	ND	ND
Butylbenzylphthalate	85-68-7	4119	17300	ND	ND
4-Chloroaniline	106-47-8	2471	9886	ND	ND
4-Chloro-3-methylphenol	59-50-7	4943	22243	ND	ND
2-Chloronaphthalene	91-58-7	2471	9062	ND	ND
2-Chlorophenol	95-57-8	1648	8238	ND	ND
4-Chlorophenyl-phenylether	59-50-7	4943	22243	ND	ND
Chrysene	218-01-9	3295	15652	ND	ND
Dibenz(a,h)anthracene	53-70-3	1648	7414	ND	ND
Dibenzofuran	132-64-9	4119	20595	ND	ND
Di-n-butylphthalate	84-74-2	2471	9886	ND	ND
1,2-Dichlorobenzene	95-50-1	1648	8238	ND	ND
1,3-Dichlorobenzene	541-73-1	2471	10709	ND	ND
1,4-Dichlorobenzene	106-46-7	2471	9886	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5767	27185	ND	ND
2,4-Dichlorophenol	120-83-2	4119	17300	ND	ND
Diethylphthalate	84-66-2	3295	16476	ND	ND
2,4-Dimethylphenol	105-67-9	4943	22243	ND	ND
Dimethylphthalate	131-11-3	3295	13181	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	79085	392953	ND	ND
2,4-Dinitrophenol	51-28-5	125218	623617	ND	ND
2,4-Dinitrotoluene	121-14-2	21419	105446	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hazen

AR301610

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-3

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 19:16, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8238
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	21419	105446	ND	ND
Di-n-octylphthalate	117-84-0	5767	26362	ND	ND
Fluoranthene	206-44-0	1648	6590	ND	ND
Fluorene	7782-41-4	4119	20595	ND	ND
Hexachlorobenzene	118-74-1	4943	22243	ND	ND
Hexachlorobutadiene	87-68-3	3295	14005	ND	ND
Hexachlorocyclopentadiene	77-47-4	14828	72494	ND	ND
Hexachloroethane	67-72-1	5767	25538	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2471	10709	ND	ND
Isophorone	78-59-1	2471	12357	ND	ND
2-Methylnaphthalene	91-57-6	1648	8238	27000	ND
2-Methylphenol	95-48-7	2471	10709	ND	ND
4-Methylphenol	106-44-5	3295	12357	ND	ND
Naphthalene	91-57-6	1648	4943	15000	ND
2-Nitroaniline	88-74-4	4119	18124	ND	ND
3-Nitroaniline	99-09-3	14005	70023	ND	ND
4-Nitroaniline	100-01-6	7414	34600	ND	ND
Nitrobenzene	98-95-3	2471	12357	ND	ND
2-Nitrophenol	88-75-5	4943	23066	ND	ND
4-Nitrophenol	100-01-6	53547	265264	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1648	6590	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3295	16476	ND	ND
Pentachlorophenol	87-86-5	63433	317987	ND	ND
Phenanthrene	85-01-8	1648	6590	15000	ND
Phenol	108-95-2	2471	11533	ND	ND
Pyrene	129-00-0	4119	19771	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3295	15652	ND	ND
2,4,5-Trichlorophenol	95-95-4	11533	57666	ND	ND
2,4,6-Trichlorophenol	88-06-02	17300	86499	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301611

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-7

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 22:10, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8575
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3430	17150	ND	ND
Acenaphthylene	208-96-8	4288	18008	ND	ND
Anthracene	120-12-7	2573	11148	ND	ND
Benzo(a)anthracene	56-55-3	1715	8575	ND	ND
Benzo(b)fluoranthene	205-99-2	2573	10290	ND	ND
Benzo(k)fluoranthene	207-08-9	1715	6860	ND	ND
Benzoic acid	65-85-0	55738	276973	ND	ND
Benzo(g,h,i)perylene	191-24-3	1715	7718	ND	ND
Benzo(a)pyrene	193-39-5	1715	8575	ND	ND
Benzyl alcohol	100-51-6	2573	12863	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2573	10290	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2573	12005	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4288	18008	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3430	17150	ND	ND
4-Bromophenyl-phenylether	101-55-3	3430	13720	ND	ND
Butylbenzylphthalate	85-68-7	4288	18008	ND	ND
4-Chloroaniline	106-47-8	2573	10290	ND	ND
4-Chloro-3-methylphenol	59-50-7	5145	23153	ND	ND
2-Chloronaphthalene	91-58-7	2573	9433	ND	ND
2-Chlorophenol	95-57-8	1715	8575	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5145	23153	ND	ND
Chrysene	218-01-9	3430	16293	ND	ND
Dibenz(a,h)anthracene	53-70-3	1715	7718	ND	ND
Dibenzofuran	132-64-9	4288	21438	ND	ND
Di-n-butylphthalate	84-74-2	2573	10290	ND	ND
1,2-Dichlorobenzene	95-50-1	1715	8575	ND	ND
1,3-Dichlorobenzene	541-73-1	2573	11148	ND	ND
1,4-Dichlorobenzene	106-46-7	2573	10290	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6003	28298	ND	ND
2,4-Dichlorophenol	120-83-2	4288	18008	ND	ND
Diethylphthalate	84-66-2	3430	17150	ND	ND
2,4-Dimethylphenol	105-67-9	5145	23153	ND	ND
Dimethylphthalate	131-11-3	3430	13720	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	82320	409028	ND	ND
2,4-Dinitrophenol	51-28-5	130340	649128	ND	ND
2,4-Dinitrotoluene	121-14-2	22295	109760	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301612

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-7

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 22:10, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8575
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22295	109760	ND	ND
Di-n-octylphthalate	117-84-0	6003	27440	ND	ND
Fluoranthene	206-44-0	1715	6860	ND	ND
Fluorene	7782-41-4	4288	21438	ND	ND
Hexachlorobenzene	118-74-1	5145	23153	ND	ND
Hexachlorobutadiene	87-68-3	3430	14578	ND	ND
Hexachlorocyclopentadiene	77-47-4	15435	75460	ND	ND
Hexachloroethane	67-72-1	6003	26583	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2573	11148	ND	ND
Isophorone	78-59-1	2573	12863	ND	ND
2-Methylnaphthalene	91-57-6	1715	8575	30000	ND
2-Methylphenol	95-48-7	2573	11148	ND	ND
4-Methylphenol	106-44-5	3430	12863	ND	ND
Naphthalene	91-57-6	1715	5145	17000	ND
2-Nitroaniline	88-74-4	4288	18865	ND	ND
3-Nitroaniline	99-09-3	14578	72888	ND	ND
4-Nitroaniline	100-01-6	7718	36015	ND	ND
Nitrobenzene	98-95-3	2573	12863	ND	ND
2-Nitrophenol	88-75-5	5145	24010	ND	ND
4-Nitrophenol	100-01-6	55738	276115	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1715	6860	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3430	17150	ND	ND
Pentachlorophenol	87-86-5	66028	330995	ND	ND
Phenanthrene	85-01-8	1715	6860	15000	ND
Phenol	108-95-2	2573	12005	ND	ND
Pyrene	129-00-0	4288	20580	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3430	16293	ND	ND
2,4,5-Trichlorophenol	95-95-4	12005	60025	ND	ND
2,4,6-Trichlorophenol	88-06-02	18008	90038	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hazen

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21207-8

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 22:53, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8039
Extract Method 3550
% SOLID: 83

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3216	16078	ND	ND
Acenaphthylene	208-96-8	4020	16882	ND	ND
Anthracene	120-12-7	2412	10451	ND	ND
Benzo(a)anthracene	56-55-3	1608	8039	ND	ND
Benzo(b)fluoranthene	205-99-2	2412	9647	ND	ND
Benzo(k)fluoranthene	207-08-9	1608	6431	ND	ND
Benzoic acid	65-85-0	52254	259660	ND	ND
Benzo(g,h,i)perylene	191-24-3	1608	7235	ND	ND
Benzo(a)pyrene	193-39-5	1608	8039	ND	ND
Benzyl alcohol	100-51-6	2412	12059	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	2412	9647	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2412	11255	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4020	16882	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3216	16078	ND	ND
4-Bromophenyl-phenylether	101-55-3	3216	12862	ND	ND
Butylbenzylphthalate	85-68-7	4020	16882	ND	ND
4-Chloroaniline	106-47-8	2412	9647	ND	ND
4-Chloro-3-methylphenol	59-50-7	4823	21705	ND	ND
2-Chloronaphthalene	91-58-7	2412	8843	ND	ND
2-Chlorophenol	95-57-8	1608	8039	ND	ND
4-Chlorophenyl-phenylether	59-50-7	4823	21705	ND	ND
Chrysene	218-01-9	3216	15274	ND	ND
Dibenz(a,h)anthracene	53-70-3	1608	7235	ND	ND
Dibenzofuran	132-64-9	4020	20098	ND	ND
Di-n-butylphthalate	84-74-2	2412	9647	ND	ND
1,2-Dichlorobenzene	95-50-1	1608	8039	ND	ND
1,3-Dichlorobenzene	541-73-1	2412	10451	ND	ND
1,4-Dichlorobenzene	106-46-7	2412	9647	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5627	26529	ND	ND
2,4-Dichlorophenol	120-83-2	4020	16882	ND	ND
Diethylphthalate	84-66-2	3216	16078	ND	ND
2,4-Dimethylphenol	105-67-9	4823	21705	ND	ND
Dimethylphthalate	131-11-3	3216	12862	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	77174	383460	ND	ND
2,4-Dinitrophenol	51-28-5	122193	608552	ND	ND
2,4-Dinitrotoluene	121-14-2	20901	102899	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-8

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 22:53, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8039
Extract Method 3550
% SOLID: 83

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	20901	102899	ND	ND
Di-n-octylphthalate	117-84-0	5627	25725	ND	ND
Fluoranthene	206-44-0	1608	6431	ND	ND
Fluorene	7782-41-4	4020	20098	ND	ND
Hexachlorobenzene	118-74-1	4823	21705	ND	ND
Hexachlorobutadiene	87-68-3	3216	13666	ND	ND
Hexachlorocyclopentadiene	77-47-4	14470	70743	ND	ND
Hexachloroethane	67-72-1	5627	24921	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2412	10451	ND	ND
Isophorone	78-59-1	2412	12059	ND	ND
2-Methylnaphthalene	91-57-6	1608	8039	19000	ND
2-Methylphenol	95-48-7	2412	10451	ND	ND
4-Methylphenol	106-44-5	3216	12059	ND	ND
Naphthalene	91-57-6	1608	4823	10000	ND
2-Nitroaniline	88-74-4	4020	17686	ND	ND
3-Nitroaniline	99-09-3	13666	68332	ND	ND
4-Nitroaniline	100-01-6	7235	33764	ND	ND
Nitrobenzene	98-95-3	2412	12059	ND	ND
2-Nitrophenol	88-75-5	4823	22509	ND	ND
4-Nitrophenol	100-01-6	52254	258856	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1608	6431	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3216	16078	ND	ND
Pentachlorophenol	87-86-5	61900	310305	ND	ND
Phenanthrene	85-01-8	1608	6431	9800	ND
Phenol	108-95-2	2412	11255	ND	ND
Pyrene	129-00-0	4020	19294	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3216	15274	ND	ND
2,4,5-Trichlorophenol	95-95-4	11255	56273	ND	ND
2,4,6-Trichlorophenol	88-06-02	16882	84410	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hazen

AR301615

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-9

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 23:37, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8132
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3253	16264	ND	ND
Acenaphthylene	208-96-8	4066	17077	ND	ND
Anthracene	120-12-7	2440	10572	ND	ND
Benzo(a)anthracene	56-55-3	1626	8132	ND	ND
Benzo(b)fluoranthene	205-99-2	2440	9758	ND	ND
Benzo(k)fluoranthene	207-08-9	1626	6506	ND	ND
Benzoic acid	65-85-0	52858	262664	ND	ND
Benzo(g,h,i)perylene	191-24-3	1626	7319	ND	ND
Benzo(a)pyrene	193-39-5	1626	8132	ND	ND
Benzyl alcohol	100-51-6	2440	12198	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2440	9758	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2440	11385	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4066	17077	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3253	16264	ND	ND
4-Bromophenyl-phenylether	101-55-3	3253	13011	ND	ND
Butylbenzylphthalate	85-68-7	4066	17077	ND	ND
4-Chloroaniline	106-47-8	2440	9758	ND	ND
4-Chloro-3-methylphenol	59-50-7	4879	21956	ND	ND
2-Chloronaphthalene	91-58-7	2440	8945	ND	ND
2-Chlorophenol	95-57-8	1626	8132	ND	ND
4-Chlorophenyl-phenylether	59-50-7	4879	21956	ND	ND
Chrysene	218-01-9	3253	15451	ND	ND
Dibenz(a,h)anthracene	53-70-3	1626	7319	ND	ND
Dibenzofuran	132-64-9	4066	20330	ND	ND
Di-n-butylphthalate	84-74-2	2440	9758	ND	ND
1,2-Dichlorobenzene	95-50-1	1626	8132	ND	ND
1,3-Dichlorobenzene	541-73-1	2440	10572	ND	ND
1,4-Dichlorobenzene	106-46-7	2440	9758	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5692	26836	ND	ND
2,4-Dichlorophenol	120-83-2	4066	17077	ND	ND
Diethylphthalate	84-66-2	3253	16264	ND	ND
2,4-Dimethylphenol	105-67-9	4879	21956	ND	ND
Dimethylphthalate	131-11-3	3253	13011	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	78067	387896	ND	ND
2,4-Dinitrophenol	51-28-5	123606	615592	ND	ND
2,4-Dinitrotoluene	121-14-2	21143	104090	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-9

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 23:37, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8132
Extract Method 3550
% SOLID: 81

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	21143	104090	ND	ND
Di-n-octylphthalate	117-84-0	5692	26022	ND	ND
Fluoranthene	206-44-0	1626	6506	ND	ND
Fluorene	7782-41-4	4066	20330	ND	ND
Hexachlorobenzene	118-74-1	4879	21956	ND	ND
Hexachlorobutadiene	87-68-3	3253	13824	ND	ND
Hexachlorocyclopentadiene	77-47-4	14638	71562	ND	ND
Hexachloroethane	67-72-1	5692	25209	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2440	10572	ND	ND
Isophorone	78-59-1	2440	12198	ND	ND
2-Methylnaphthalene	91-57-6	1626	8132	31000	ND
2-Methylphenol	95-48-7	2440	10572	ND	ND
4-Methylphenol	106-44-5	3253	12198	ND	ND
Naphthalene	91-57-6	1626	4879	17000	ND
2-Nitroaniline	88-74-4	4066	17890	ND	ND
3-Nitroaniline	99-09-3	13824	69122	ND	ND
4-Nitroaniline	100-01-6	7319	34154	ND	ND
Nitrobenzene	98-95-3	2440	12198	ND	ND
2-Nitrophenol	88-75-5	4879	22770	ND	ND
4-Nitrophenol	100-01-6	52858	261850	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1626	6506	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3253	16264	ND	ND
Pentachlorophenol	87-86-5	62616	313895	ND	ND
Phenanthrene	85-01-8	1626	6506	17000	ND
Phenol	108-95-2	2440	11385	ND	ND
Pyrene	129-00-0	4066	19517	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3253	15451	ND	ND
2,4,5-Trichlorophenol	95-95-4	11385	56924	ND	ND
2,4,6-Trichlorophenol	88-06-02	17077	85386	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301617

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21207-4

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 19:59, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8600
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3440	17200	ND	ND
Acenaphthylene	208-96-8	4300	18060	ND	ND
Anthracene	120-12-7	2580	11180	ND	ND
Benzo(a)anthracene	56-55-3	1720	8600	ND	ND
Benzo(b)fluoranthene	205-99-2	2580	10320	ND	ND
Benzo(k)fluoranthene	207-08-9	1720	6880	ND	ND
Benzoic acid	65-85-0	55900	277780	ND	ND
Benzo(g,h,i)perylene	191-24-3	1720	7740	ND	ND
Benzo(a)pyrene	193-39-5	1720	8600	ND	ND
Benzyl alcohol	100-51-6	2580	12900	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2580	10320	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2580	12040	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4300	18060	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3440	17200	ND	ND
4-Bromophenyl-phenylether	101-55-3	3440	13760	ND	ND
Butylbenzylphthalate	85-68-7	4300	18060	ND	ND
4-Chloroaniline	106-47-8	2580	10320	ND	ND
4-Chloro-3-methylphenol	59-50-7	5160	23220	ND	ND
2-Chloronaphthalene	91-58-7	2580	9460	ND	ND
2-Chlorophenol	95-57-8	1720	8600	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5160	23220	ND	ND
Chrysene	218-01-9	3440	16340	ND	ND
Dibenz(a,h)anthracene	53-70-3	1720	7740	ND	ND
Dibenzofuran	132-64-9	4300	21500	ND	ND
Di-n-butylphthalate	84-74-2	2580	10320	ND	ND
1,2-Dichlorobenzene	95-50-1	1720	8600	ND	ND
1,3-Dichlorobenzene	541-73-1	2580	11180	ND	ND
1,4-Dichlorobenzene	106-46-7	2580	10320	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6020	28380	ND	ND
2,4-Dichlorophenol	120-83-2	4300	18060	ND	ND
Diethylphthalate	84-66-2	3440	17200	ND	ND
2,4-Dimethylphenol	105-67-9	5160	23220	ND	ND
Dimethylphthalate	131-11-3	3440	13760	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	82560	410220	ND	ND
2,4-Dinitrophenol	51-28-5	130720	651020	ND	ND
2,4-Dinitrotoluene	121-14-2	22360	110080	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hay

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-4

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 19:59, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8600
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22360	110080	ND	ND
Di-n-octylphthalate	117-84-0	6020	27520	ND	ND
Fluoranthene	206-44-0	1720	6880	ND	ND
Fluorene	7782-41-4	4300	21500	ND	ND
Hexachlorobenzene	118-74-1	5160	23220	ND	ND
Hexachlorobutadiene	87-68-3	3440	14620	ND	ND
Hexachlorocyclopentadiene	77-47-4	15480	75680	ND	ND
Hexachloroethane	67-72-1	6020	26660	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2580	11180	ND	ND
Isophorone	78-59-1	2580	12900	ND	ND
2-Methylnaphthalene	91-57-6	1720	8600	28000	ND
2-Methylphenol	95-48-7	2580	11180	ND	ND
4-Methylphenol	106-44-5	3440	12900	ND	ND
Naphthalene	91-57-6	1720	5160	18000	ND
2-Nitroaniline	88-74-4	4300	18920	ND	ND
3-Nitroaniline	99-09-3	14620	73100	ND	ND
4-Nitroaniline	100-01-6	7740	36120	ND	ND
Nitrobenzene	98-95-3	2580	12900	ND	ND
2-Nitrophenol	88-75-5	5160	24080	ND	ND
4-Nitrophenol	100-01-6	55900	276920	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1720	6880	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3440	17200	ND	ND
Pentachlorophenol	87-86-5	66220	331960	ND	ND
Phenanthrene	85-01-8	1720	6880	14000	ND
Phenol	108-95-2	2580	12040	3800 E	ND
Pyrene	129-00-0	4300	20640	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3440	16340	ND	ND
2,4,5-Trichlorophenol	95-95-4	12040	60200	ND	ND
2,4,6-Trichlorophenol	88-06-02	18060	90300	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

AR301619

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21207-5

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 20:43, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8594
Extract Method 3550
% SOLID: 77

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3438	17188	ND	ND
Acenaphthylene	208-96-8	4297	18047	ND	ND
Anthracene	120-12-7	2578	11172	ND	ND
Benzo(a)anthracene	56-55-3	1719	8594	ND	ND
Benzo(b)fluoranthene	205-99-2	2578	10313	ND	ND
Benzo(k)fluoranthene	207-08-9	1719	6875	ND	ND
Benzoic acid	65-85-0	55861	277586	ND	ND
Benzo(g,h,i)perylene	191-24-3	1719	7735	ND	ND
Benzo(a)pyrene	193-39-5	1719	8594	ND	ND
Benzyl alcohol	100-51-6	2578	12891	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2578	10313	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2578	12032	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4297	18047	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3438	17188	ND	ND
4-Bromophenyl-phenylether	101-55-3	3438	13750	ND	ND
Butylbenzylphthalate	85-68-7	4297	18047	ND	ND
4-Chloroaniline	106-47-8	2578	10313	ND	ND
4-Chloro-3-methylphenol	59-50-7	5156	23204	ND	ND
2-Chloronaphthalene	91-58-7	2578	9453	ND	ND
2-Chlorophenol	95-57-8	1719	8594	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5156	23204	ND	ND
Chrysene	218-01-9	3438	16329	ND	ND
Dibenz(a,h)anthracene	53-70-3	1719	7735	ND	ND
Dibenzofuran	132-64-9	4297	21485	ND	ND
Di-n-butylphthalate	84-74-2	2578	10313	ND	ND
1,2-Dichlorobenzene	95-50-1	1719	8594	ND	ND
1,3-Dichlorobenzene	541-73-1	2578	11172	ND	ND
1,4-Dichlorobenzene	106-46-7	2578	10313	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6016	28360	ND	ND
2,4-Dichlorophenol	120-83-2	4297	18047	ND	ND
Diethylphthalate	84-66-2	3438	17188	ND	ND
2,4-Dimethylphenol	105-67-9	5156	23204	ND	ND
Dimethylphthalate	131-11-3	3438	13750	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	82502	409934	ND	ND
2,4-Dinitrophenol	51-28-5	130629	650566	ND	ND
2,4-Dinitrotoluene	121-14-2	22344	110003	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hay

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-5

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 20:43, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8594
Extract Method 3550
% SOLID: 77

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22344	110003	ND	ND
Di-n-octylphthalate	117-84-0	6016	27501	ND	ND
Fluoranthene	206-44-0	1719	6875	ND	ND
Fluorene	7782-41-4	4297	21485	ND	ND
Hexachlorobenzene	118-74-1	5156	23204	ND	ND
Hexachlorobutadiene	87-68-3	3438	14610	ND	ND
Hexachlorocyclopentadiene	77-47-4	15469	75627	ND	ND
Hexachloroethane	67-72-1	6016	26641	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2578	11172	ND	ND
Isophorone	78-59-1	2578	12891	ND	ND
2-Methylnaphthalene	91-57-6	1719	8594	21000	ND
2-Methylphenol	95-48-7	2578	11172	ND	ND
4-Methylphenol	106-44-5	3438	12891	ND	ND
Naphthalene	91-57-6	1719	5156	14000	ND
2-Nitroaniline	88-74-4	4297	18907	ND	ND
3-Nitroaniline	99-09-3	14610	73049	ND	ND
4-Nitroaniline	100-01-6	7735	36095	ND	ND
Nitrobenzene	98-95-3	2578	12891	ND	ND
2-Nitrophenol	88-75-5	5156	24063	ND	ND
4-Nitrophenol	100-01-6	55861	276727	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1719	6875	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3438	17188	ND	ND
Pentachlorophenol	87-86-5	66174	331728	ND	ND
Phenanthrene	85-01-8	1719	6875	11000	ND
Phenol	108-95-2	2578	12032	4100 E	ND
Pyrene	129-00-0	4297	20626	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3438	16329	ND	ND
2,4,5-Trichlorophenol	95-95-4	12032	60158	ND	ND
2,4,6-Trichlorophenol	88-06-02	18047	90237	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301621

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-6

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 21:26, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8657
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3463	17314	ND	ND
Acenaphthylene	208-96-8	4329	18180	ND	ND
Anthracene	120-12-7	2597	11254	ND	ND
Benzo(a)anthracene	56-55-3	1731	8657	ND	ND
Benzo(b)fluoranthene	205-99-2	2597	10388	ND	ND
Benzo(k)fluoranthene	207-08-9	1731	6926	ND	ND
Benzoic acid	65-85-0	56271	279621	ND	ND
Benzo(g,h,i)perylene	191-24-3	1731	7791	ND	ND
Benzo(a)pyrene	193-39-5	1731	8657	ND	ND
Benzyl alcohol	100-51-6	2597	12986	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2597	10388	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2597	12120	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4329	18180	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3463	17314	ND	ND
4-Bromophenyl-phenylether	101-55-3	3463	13851	ND	ND
Butylbenzylphthalate	85-68-7	4329	18180	ND	ND
4-Chloroaniline	106-47-8	2597	10388	ND	ND
4-Chloro-3-methylphenol	59-50-7	5194	23374	ND	ND
2-Chloronaphthalene	91-58-7	2597	9523	ND	ND
2-Chlorophenol	95-57-8	1731	8657	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5194	23374	ND	ND
Chrysene	218-01-9	3463	16448	ND	ND
Dibenz(a,h)anthracene	53-70-3	1731	7791	ND	ND
Dibenzofuran	132-64-9	4329	21643	ND	ND
Di-n-butylphthalate	84-74-2	2597	10388	ND	ND
1,2-Dichlorobenzene	95-50-1	1731	8657	ND	ND
1,3-Dichlorobenzene	541-73-1	2597	11254	ND	ND
1,4-Dichlorobenzene	106-46-7	2597	10388	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6060	28568	ND	ND
2,4-Dichlorophenol	120-83-2	4329	18180	ND	ND
Diethylphthalate	84-66-2	3463	17314	ND	ND
2,4-Dimethylphenol	105-67-9	5194	23374	ND	ND
Dimethylphthalate	131-11-3	3463	13851	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	83107	412939	ND	ND
2,4-Dinitrophenol	51-28-5	131586	655335	ND	ND
2,4-Dinitrotoluene	121-14-2	22508	110810	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-6

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/03/93 21:26, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8657
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22508	110810	ND	ND
Di-n-octylphthalate	117-84-0	6060	27702	ND	ND
Fluoranthene	206-44-0	1731	6926	ND	ND
Fluorene	7782-41-4	4329	21643	ND	ND
Hexachlorobenzene	118-74-1	5194	23374	ND	ND
Hexachlorobutadiene	87-68-3	3463	14717	ND	ND
Hexachlorocyclopentadiene	77-47-4	15583	76182	ND	ND
Hexachloroethane	67-72-1	6060	26837	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2597	11254	ND	ND
Isophorone	78-59-1	2597	12986	ND	ND
2-Methylnaphthalene	91-57-6	1731	8657	31000	ND
2-Methylphenol	95-48-7	2597	11254	ND	ND
4-Methylphenol	106-44-5	3463	12986	ND	ND
Naphthalene	91-57-6	1731	5194	20000	ND
2-Nitroaniline	88-74-4	4329	19045	ND	ND
3-Nitroaniline	99-09-3	14717	73585	ND	ND
4-Nitroaniline	100-01-6	7791	36359	ND	ND
Nitrobenzene	98-95-3	2597	12986	ND	ND
2-Nitrophenol	88-75-5	5194	24240	ND	ND
4-Nitrophenol	100-01-6	56271	278755	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1731	6926	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3463	17314	ND	ND
Pentachlorophenol	87-86-5	66659	334160	ND	ND
Phenanthrene	85-01-8	1731	6926	15000	ND
Phenol	108-95-2	2597	12120	4500 E	ND
Pyrene	129-00-0	4329	20777	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3463	16448	ND	ND
2,4,5-Trichlorophenol	95-95-4	12120	60599	ND	ND
2,4,6-Trichlorophenol	88-06-02	18180	90899	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301623

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21207-10

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 0:20, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8934
Extract Method 3550
% SOLID: 74

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3574	17868	ND	ND
Acenaphthylene	208-96-8	4467	18761	ND	ND
Anthracene	120-12-7	2680	11614	ND	ND
Benzo(a)anthracene	56-55-3	1787	8934	ND	ND
Benzo(b)fluoranthene	205-99-2	2680	10721	ND	ND
Benzo(k)fluoranthene	207-08-9	1787	7147	ND	ND
Benzoic acid	65-85-0	58071	288568	ND	ND
Benzo(g,h,i)perylene	191-24-3	1787	8041	ND	ND
Benzo(a)pyrene	193-39-5	1787	8934	ND	ND
Benzyl alcohol	100-51-6	2680	13401	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	2680	10721	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2680	12508	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4467	18761	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3574	17868	ND	ND
4-Bromophenyl-phenylether	101-55-3	3574	14294	ND	ND
Butylbenzylphthalate	85-68-7	4467	18761	ND	ND
4-Chloroaniline	106-47-8	2680	10721	ND	ND
4-Chloro-3-methylphenol	59-50-7	5360	24122	ND	ND
2-Chloronaphthalene	91-58-7	2680	9827	ND	ND
2-Chlorophenol	95-57-8	1787	8934	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5360	24122	ND	ND
Chrysene	218-01-9	3574	16975	ND	ND
Dibenz(a,h)anthracene	53-70-3	1787	8041	ND	ND
Dibenzofuran	132-64-9	4467	22335	ND	ND
Di-n-butylphthalate	84-74-2	2680	10721	ND	ND
1,2-Dichlorobenzene	95-50-1	1787	8934	ND	ND
1,3-Dichlorobenzene	541-73-1	2680	11614	ND	ND
1,4-Dichlorobenzene	106-46-7	2680	10721	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6254	29482	ND	ND
2,4-Dichlorophenol	120-83-2	4467	18761	ND	ND
Diethylphthalate	84-66-2	3574	17868	ND	ND
2,4-Dimethylphenol	105-67-9	5360	24122	ND	ND
Dimethylphthalate	131-11-3	3574	14294	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	85766	426152	ND	ND
2,4-Dinitrophenol	51-28-5	135797	676304	ND	ND
2,4-Dinitrotoluene	121-14-2	23228	114355	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301624

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-10

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 0:20, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8934
Extract Method 3550
% SOLID: 74

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	23228	114355	ND	ND
Di-n-octylphthalate	117-84-0	6254	28589	ND	ND
Fluoranthene	206-44-0	1787	7147	ND	ND
Fluorene	7782-41-4	4467	22335	ND	ND
Hexachlorobenzene	118-74-1	5360	24122	ND	ND
Hexachlorobutadiene	87-68-3	3574	15188	ND	ND
Hexachlorocyclopentadiene	77-47-4	16081	78619	ND	ND
Hexachloroethane	67-72-1	6254	27695	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2680	11614	ND	ND
Isophorone	78-59-1	2680	13401	ND	ND
2-Methylnaphthalene	91-57-6	1787	8934	39000	ND
2-Methylphenol	95-48-7	2680	11614	ND	ND
4-Methylphenol	106-44-5	3574	13401	ND	ND
Naphthalene	91-57-6	1787	5360	28000	ND
2-Nitroaniline	88-74-4	4467	19655	ND	ND
3-Nitroaniline	99-09-3	15188	75939	ND	ND
4-Nitroaniline	100-01-6	8041	37523	ND	ND
Nitrobenzene	98-95-3	2680	13401	ND	ND
2-Nitrophenol	88-75-5	5360	25015	ND	ND
4-Nitrophenol	100-01-6	58071	287675	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1787	7147	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3574	17868	ND	ND
Pentachlorophenol	87-86-5	68792	344852	ND	ND
Phenanthrene	85-01-8	1787	7147	18000	ND
Phenol	108-95-2	2680	12508	12000 E	ND
Pyrene	129-00-0	4467	21442	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3574	16975	ND	ND
2,4,5-Trichlorophenol	95-95-4	12508	62538	ND	ND
2,4,6-Trichlorophenol	88-06-02	18761	93807	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301625

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-11

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 1:03, TAG
EXTRACTION (Date / Init) : 12/21/92, JD

DATE REPORTED: 1/06/92

Dilution Factor: 8810
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3524	17620	ND	ND
Acenaphthylene	208-96-8	4405	18501	ND	ND
Anthracene	120-12-7	2643	11453	ND	ND
Benzo(a)anthracene	56-55-3	1762	8810	ND	ND
Benzo(b)fluoranthene	205-99-2	2643	10572	ND	ND
Benzo(k)fluoranthene	207-08-9	1762	7048	ND	ND
Benzoic acid	65-85-0	57265	284563	ND	ND
Benzo(g,h,i)perylene	191-24-3	1762	7929	ND	ND
Benzo(a)pyrene	193-39-5	1762	8810	ND	ND
Benzyl alcohol	100-51-6	2643	13215	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2643	10572	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2643	12334	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4405	18501	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3524	17620	ND	ND
4-Bromophenyl-phenylether	101-55-3	3524	14096	ND	ND
Butylbenzylphthalate	85-68-7	4405	18501	ND	ND
4-Chloroaniline	106-47-8	2643	10572	ND	ND
4-Chloro-3-methylphenol	59-50-7	5286	23787	ND	ND
2-Chloronaphthalene	91-58-7	2643	9691	ND	ND
2-Chlorophenol	95-57-8	1762	8810	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5286	23787	ND	ND
Chrysene	218-01-9	3524	16739	ND	ND
Dibenz(a,h)anthracene	53-70-3	1762	7929	ND	ND
Dibenzofuran	132-64-9	4405	22025	ND	ND
Di-n-butylphthalate	84-74-2	2643	10572	ND	ND
1,2-Dichlorobenzene	95-50-1	1762	8810	ND	ND
1,3-Dichlorobenzene	541-73-1	2643	11453	ND	ND
1,4-Dichlorobenzene	106-46-7	2643	10572	ND	ND
3,3'-Dichlorobenzidine	91-94-1	6167	29073	ND	ND
2,4-Dichlorophenol	120-83-2	4405	18501	ND	ND
Diethylphthalate	84-66-2	3524	17620	ND	ND
2,4-Dimethylphenol	105-67-9	5286	23787	ND	ND
Dimethylphthalate	131-11-3	3524	14096	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	84576	420237	ND	ND
2,4-Dinitrophenol	51-28-5	133912	666917	ND	ND
2,4-Dinitrotoluene	121-14-2	22906	112768	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-11

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 1:03, TAG
EXTRACTION (Date / Init) : 12/21/92, JD

DATE REPORTED: 1/06/92

Dilution Factor: 8810
Extract Method 3550
% SOLID: 76

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22906	112768	ND	ND
Di-n-octylphthalate	117-84-0	6167	28192	ND	ND
Fluoranthene	206-44-0	1762	7048	ND	ND
Fluorene	7782-41-4	4405	22025	ND	ND
Hexachlorobenzene	118-74-1	5286	23787	ND	ND
Hexachlorobutadiene	87-68-3	3524	14977	ND	ND
Hexachlorocyclopentadiene	77-47-4	15858	77528	ND	ND
Hexachloroethane	67-72-1	6167	27311	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2643	11453	ND	ND
Isophorone	78-59-1	2643	13215	ND	ND
2-Methylnaphthalene	91-57-6	1762	8810	34000	ND
2-Methylphenol	95-48-7	2643	11453	ND	ND
4-Methylphenol	106-44-5	3524	13215	ND	ND
Naphthalene	91-57-6	1762	5286	24000	ND
2-Nitroaniline	88-74-4	4405	19382	ND	ND
3-Nitroaniline	99-09-3	14977	74885	ND	ND
4-Nitroaniline	100-01-6	7929	37002	ND	ND
Nitrobenzene	98-95-3	2643	13215	ND	ND
2-Nitrophenol	88-75-5	5286	24668	ND	ND
4-Nitrophenol	100-01-6	57265	283682	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1762	7048	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3524	17620	ND	ND
Pentachlorophenol	87-86-5	67837	340066	ND	ND
Phenanthrene	85-01-8	1762	7048	14000	ND
Phenol	108-95-2	2643	12334	9500 E	ND
Pyrene	129-00-0	4405	21144	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3524	16739	ND	ND
2,4,5-Trichlorophenol	95-95-4	12334	61670	ND	ND
2,4,6-Trichlorophenol	88-06-02	18501	92505	ND	ND
2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]		DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]		DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]		DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]		DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]		DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]		DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301627

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-12

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 1:47, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8476
Extract Method 3550
% SOLID: 78

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	3390	16952	ND	ND
Acenaphthylene	208-96-8	4238	17800	ND	ND
Anthracene	120-12-7	2543	11019	ND	ND
Benzo(a)anthracene	56-55-3	1695	8476	ND	ND
Benzo(b)fluoranthene	205-99-2	2543	10171	ND	ND
Benzo(k)fluoranthene	207-08-9	1695	6781	ND	ND
Benzoic acid	65-85-0	55094	273775	ND	ND
Benzo(g,h,i)perylene	191-24-3	1695	7628	ND	ND
Benzo(a)pyrene	193-39-5	1695	8476	ND	ND
Benzyl alcohol	100-51-6	2543	12714	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	2543	10171	ND	ND
bis(2-Chloroethyl)ether	111-44-4	2543	11866	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	4238	17800	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	3390	16952	ND	ND
4-Bromophenyl-phenylether	101-55-3	3390	13562	ND	ND
Butylbenzylphthalate	85-68-7	4238	17800	ND	ND
4-Chloroaniline	106-47-8	2543	10171	ND	ND
4-Chloro-3-methylphenol	59-50-7	5086	22885	ND	ND
2-Chloronaphthalene	91-58-7	2543	9324	ND	ND
2-Chlorophenol	95-57-8	1695	8476	ND	ND
4-Chlorophenyl-phenylether	59-50-7	5086	22885	ND	ND
Chrysene	218-01-9	3390	16104	ND	ND
Dibenz(a,h)anthracene	53-70-3	1695	7628	ND	ND
Dibenzofuran	132-64-9	4238	21190	ND	ND
Di-n-butylphthalate	84-74-2	2543	10171	ND	ND
1,2-Dichlorobenzene	95-50-1	1695	8476	ND	ND
1,3-Dichlorobenzene	541-73-1	2543	11019	ND	ND
1,4-Dichlorobenzene	106-46-7	2543	10171	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5933	27971	ND	ND
2,4-Dichlorophenol	120-83-2	4238	17800	ND	ND
Diethylphthalate	84-66-2	3390	16952	ND	ND
2,4-Dimethylphenol	105-67-9	5086	22885	ND	ND
Dimethylphthalate	131-11-3	3390	13562	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	81370	404305	ND	ND
2,4-Dinitrophenol	51-28-5	128835	641633	ND	ND
2,4-Dinitrotoluene	121-14-2	22038	108493	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-12

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 1/04/93 1:47, TAG
EXTRACTION (Date / Init) : 12/15/92, LD

DATE REPORTED: 1/06/92

Dilution Factor: 8476
Extract Method 3550
% SOLID: 78

Sample Matrix SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,4-Dinitrotoluene	121-14-2	22038	108493	ND	ND
Di-n-octylphthalate	117-84-0	5933	27123	ND	ND
Fluoranthene	206-44-0	1695	6781	ND	ND
Fluorene	7782-41-4	4238	21190	ND	ND
Hexachlorobenzene	118-74-1	5086	22885	ND	ND
Hexachlorobutadiene	87-68-3	3390	14409	ND	ND
Hexachlorocyclopentadiene	77-47-4	15257	74589	ND	ND
Hexachloroethane	67-72-1	5933	26276	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	2543	11019	ND	ND
Isophorone	78-59-1	2543	12714	ND	ND
2-Methylnaphthalene	91-57-6	1695	8476	41000	ND
2-Methylphenol	95-48-7	2543	11019	ND	ND
4-Methylphenol	106-44-5	3390	12714	ND	ND
Naphthalene	91-57-6	1695	5086	29000	ND
2-Nitroaniline	88-74-4	4238	18647	ND	ND
3-Nitroaniline	99-09-3	14409	72046	ND	ND
4-Nitroaniline	100-01-6	7628	35599	ND	ND
Nitrobenzene	98-95-3	2543	12714	ND	ND
2-Nitrophenol	88-75-5	5086	23733	ND	ND
4-Nitrophenol	100-01-6	55094	272927	ND	ND
N-Nitrosodiphenylamine*	86-30-6	1695	6781	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	3390	16952	ND	ND
Pentachlorophenol	87-86-5	65265	327174	ND	ND
Phenanthrene	85-01-8	1695	6781	18000	ND
Phenol	108-95-2	2543	11866	6100 E	ND
Pyrene	129-00-0	4238	20342	ND	ND
1,2,4-Trichlorobenzene	120-82-1	3390	16104	ND	ND
2,4,5-Trichlorophenol	95-95-4	11866	59332	ND	ND
2,4,6-Trichlorophenol	88-06-02	17800	88998	ND	ND

2-Fluorophenol (surrogate std)	%Recovery	[OK=25-121]	DO	65
Phenol-d6 (surrogate std)	%Recovery	[OK=24-113]	DO	61
Nitrobenzene-d5 (surrogate std)	%Recovery	[OK=23-120]	DO	50
2-Fluorobiphenyl (surrogate std)	%Recovery	[OK=30-115]	DO	72
2,4,6-Tribromophenol (surrogate std	%Recovery	[OK=19-122]	DO	64
Terphenyl-d14 (surrogate std)	%Recovery	[OK=18-137]	DO	68

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine
DO: Diluted Out

Michael Hayes

AR301629

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-2MS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date/Init): 12/15/92, JD
ANALYSIS (Date/Time/Init): 1/4/93, 02:37, TAG
Sample Matrix: SOLID
Analysis Method: 8270

DATE REPORTED: 1/6/93

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	31- 137	DO
4-Chloro-3-methylphenol	59-50-7	26- 103	DO
2-Chlorophenol	95-57-8	25- 102	DO
1,4-Dichlorobenzene	106-46-7	28- 104	DO
2,4-Dinitrotoluene	121-14-2	28- 89	DO
4-Nitrophenol	100-02-7	11- 114	DO
N-Nitoso-di-n-propylamine	621-64-7	41- 126	DO
Pentachlorophenol	87-86-5	17- 109	DO
Phenol	108-95-2	26- 90	DO
Pyrene	129-00-0	35- 142	DO
1,2,4-Trichlorobenzene	120-82-1	38- 107	DO
2-Fluorophenol	% Recovery	[OK=25-121]	DO
Phenol-d5	% Recovery	[OK=24-113]	DO
Nitrobenzene-d5	% Recovery	[OK=23-120]	DO
2-Fluorobiphenyl	% Recovery	[OK=30-115]	DO
2,4,6-Tribromophenol	% Recovery	[OK=19-122]	DO
Terphenyl-d14	% Recovery	[OK=18-137]	DO

ANALYSIS (Date/Time/Init): 1/4/93, 03:14, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	RPD
Acenaphthene	83-32-9	31- 137	DO	N/A
4-Chloro-3-methylphenol	59-50-7	26- 103	DO	N/A
2-Chlorophenol	95-57-8	25- 102	DO	N/A
1,4-Dichlorobenzene	106-46-7	28- 104	DO	N/A
2,4-Dinitrotoluene	121-14-2	28- 89	DO	N/A
4-Nitrophenol	100-02-7	11- 114	DO	N/A
N-Nitoso-di-n-propylamine	621-64-7	41- 126	DO	N/A
Pentachlorophenol	87-86-5	17- 109	DO	N/A
Phenol	108-95-2	26- 90	DO	N/A
Pyrene	129-00-0	35- 142	DO	N/A
1,2,4-Trichlorobenzene	120-82-1	38- 107	DO	N/A
2-Fluorophenol	% Recovery	[OK=25-121]	DO	
Phenol-d5	% Recovery	[OK=24-113]	DO	
Nitrobenzene-d5	% Recovery	[OK=23-120]	DO	
2-Fluorobiphenyl	% Recovery	[OK=30-115]	DO	
2,4,6-Tribromophenol	% Recovery	[OK=19-122]	DO	
Terphenyl-d14	% Recovery	[OK=18-137]	DO	

DO: Diluted Out
N/A: Not Applicable

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-8MS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date/Init): 12/15/92, JD
ANALYSIS (Date/Time/Init): 1/4/93, 03:58, TAG
Sample Matrix: SOLID
Analysis Method: 8270

DATE REPORTED: 1/6/93

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	31- 137	DO
4-Chloro-3-methylphenol	59-50-7	26- 103	DO
2-Chlorophenol	95-57-8	25- 102	DO
1,4-Dichlorobenzene	106-46-7	28- 104	DO
2,4-Dinitrotoluene	121-14-2	28- 89	DO
4-Nitrophenol	100-02-7	11- 114	DO
N-Nitoso-di-n-propylamine	621-64-7	41- 126	DO
Pentachlorophenol	87-86-5	17- 109	DO
Phenol	108-95-2	26- 90	DO
Pyrene	129-00-0	35- 142	DO
1,2,4-Trichlorobenzene	120-82-1	38- 107	DO
2-Fluorophenol	% Recovery	[OK=25-121]	DO
Phenol-d5	% Recovery	[OK=24-113]	DO
Nitrobenzene-d5	% Recovery	[OK=23-120]	DO
2-Fluorobiphenyl	% Recovery	[OK=30-115]	DO
2,4,6-Tribromophenol	% Recovery	[OK=19-122]	DO
Terphenyl-d14	% Recovery	[OK=18-137]	DO

ANALYSIS (Date/Time/Init): 1/4/93, 04:41, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	RPD
Acenaphthene	83-32-9	31- 137	DO	N/A
4-Chloro-3-methylphenol	59-50-7	26- 103	DO	N/A
2-Chlorophenol	95-57-8	25- 102	DO	N/A
1,4-Dichlorobenzene	106-46-7	28- 104	DO	N/A
2,4-Dinitrotoluene	121-14-2	28- 89	DO	N/A
4-Nitrophenol	100-02-7	11- 114	DO	N/A
N-Nitoso-di-n-propylamine	621-64-7	41- 126	DO	N/A
Pentachlorophenol	87-86-5	17- 109	DO	N/A
Phenol	108-95-2	26- 90	DO	N/A
Pyrene	129-00-0	35- 142	DO	N/A
1,2,4-Trichlorobenzene	120-82-1	38- 107	DO	N/A
2-Fluorophenol	% Recovery	[OK=25-121]	DO	
Phenol-d5	% Recovery	[OK=24-113]	DO	
Nitrobenzene-d5	% Recovery	[OK=23-120]	DO	
2-Fluorobiphenyl	% Recovery	[OK=30-115]	DO	
2,4,6-Tribromophenol	% Recovery	[OK=19-122]	DO	
Terphenyl-d14	% Recovery	[OK=18-137]	DO	

DO: Diluted Out
N/A: Not Applicable

Michael Hinnes

Total PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-1

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 07:40 & 12:44, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.37
Extract Method: 3550
% Solids: 79.7

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	837	3348	3600	ND
Aroclor-1221	11104-28-2	837	3348	ND	ND
Aroclor-1232	11141-16-5	837	3348	ND	ND
Aroclor-1242	53469-21-9	837	3348	ND	ND
Aroclor-1248	12672-29-6	837	3348	ND	ND
Aroclor-1254	11097-69-1	837	3348	ND	ND
Aroclor-1260	11096-82-5	837	3348	11,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-2

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 08:23 & 17:48, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.24
Extract Method: 3550
% Solids: 76.4

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	824	3296	10,000E[1]	ND
Aroclor-1221	11104-28-2	824	3296	ND	ND
Aroclor-1232	11141-16-5	824	3296	ND	ND
Aroclor-1242	53469-21-9	824	3296	ND	ND
Aroclor-1248	12672-29-6	824	3296	ND	ND
Aroclor-1254	11097-69-1	824	3296	ND	ND
Aroclor-1260	11096-82-5	824	3296	63,000E[2]	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

[1] Aroclor 1016 estimated due to the masking interferences form Aroclor 1260.
[2] Aroclor 1260 estimated due to quantitation performed at or just above calibration limit.

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-3

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 09:07 & 18:31, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.18
Extract Method: 3550
% Solids: 80.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	818	3272	2800E	ND
Aroclor-1221	11104-28-2	818	3272	ND	ND
Aroclor-1232	11141-16-5	818	3272	ND	ND
Aroclor-1242	53469-21-9	818	3272	ND	ND
Aroclor-1248	12672-29-6	818	3272	ND	ND
Aroclor-1254	11097-69-1	818	3272	ND	ND
Aroclor-1260	11096-82-5	818	3272	9800	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-4

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 09:50 & 19:15, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.57
Extract Method: 3550
% Solids: 76.4

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	857	3428	3400E	ND
Aroclor-1221	11104-28-2	857	3428	ND	ND
Aroclor-1232	11141-16-5	857	3428	ND	ND
Aroclor-1242	53469-21-9	857	3428	ND	ND
Aroclor-1248	12672-29-6	857	3428	ND	ND
Aroclor-1254	11097-69-1	857	3428	ND	ND
Aroclor-1260	11096-82-5	857	3428	17,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-5

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 10:34 & 19:58, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.68
Extract Method: 3550
% Solids: 76.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	868	3472	2800E	ND
Aroclor-1221	11104-28-2	868	3472	ND	ND
Aroclor-1232	11141-16-5	868	3472	ND	ND
Aroclor-1242	53469-21-9	868	3472	ND	ND
Aroclor-1248	12672-29-6	868	3472	ND	ND
Aroclor-1254	11097-69-1	868	3472	ND	ND
Aroclor-1260	11096-82-5	868	3472	13,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-6

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 20:42, DLL
1/11/93, 03:51, DLL

DATE REPORTED: 1/11/93

Quant Factor: 0.85
Extract Method: 3550
% Solids: 76.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	85	340	170E	ND
Aroclor-1221	11104-28-2	85	340	ND	ND
Aroclor-1232	11141-16-5	85	340	ND	ND
Aroclor-1242	53469-21-9	85	340	ND	ND
Aroclor-1248	12672-29-6	85	340	ND	ND
Aroclor-1254	11097-69-1	85	340	ND	ND
Aroclor-1260	11096-82-5	85	340	800E	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-7

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 12:01, DLL

DATE REPORTED: 1/11/93

Quant Factor: 87.7
Extract Method: 3550
% Solids: 75.8

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	8770	35080	15,000E	ND
Aroclor-1221	11104-28-2	8770	35080	ND	ND
Aroclor-1232	11141-16-5	8770	35080	ND	ND
Aroclor-1242	53469-21-9	8770	35080	ND	ND
Aroclor-1248	12672-29-6	8770	35080	ND	ND
Aroclor-1254	11097-69-1	8770	35080	ND	ND
Aroclor-1260	11096-82-5	8770	35080	43,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA: Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-8

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 12:44, DLL

DATE REPORTED: 1/11/93

Quant Factor: 80.5
Extract Method: 3550
% Solids: 82.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	8050	32200	11,000E	ND
Aroclor-1221	11104-28-2	8050	32200	ND	ND
Aroclor-1232	11141-16-5	8050	32200	ND	ND
Aroclor-1242	53469-21-9	8050	32200	ND	ND
Aroclor-1248	12672-29-6	8050	32200	ND	ND
Aroclor-1254	11097-69-1	8050	32200	ND	ND
Aroclor-1260	11096-82-5	8050	32200	32,000E	ND
Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]		**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-9

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 17:48 & 19:15, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.19
Extract Method: 3550
% Solids: 81.3

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	819	3276	3700	ND
Aroclor-1221	11104-28-2	819	3276	ND	ND
Aroclor-1232	11141-16-5	819	3276	ND	ND
Aroclor-1242	53469-21-9	819	3276	ND	ND
Aroclor-1248	12672-29-6	819	3276	ND	ND
Aroclor-1254	11097-69-1	819	3276	ND	ND
Aroclor-1260	11096-82-5	819	3276	38,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-10

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 18:31 & 19:58, DLL

DATE REPORTED: 1/11/93

Quant Factor: 8.98
Extract Method: 3550
% Solids: 74.1

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	898	3592	3700	ND
Aroclor-1221	11104-28-2	898	3592	ND	ND
Aroclor-1232	11141-16-5	898	3592	ND	ND
Aroclor-1242	53469-21-9	898	3592	ND	ND
Aroclor-1248	12672-29-6	898	3592	ND	ND
Aroclor-1254	11097-69-1	898	3592	ND	ND
Aroclor-1260	11096-82-5	898	3592	39,000	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-11

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 22:03, DLL

DATE REPORTED: 1/11/93

Quant Factor: 176
Extract Method: 3550
% Solids: 75.7

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	17600	70400	27,000E	ND
Aroclor-1221	11104-28-2	17600	70400	ND	ND
Aroclor-1232	11141-16-5	17600	70400	ND	ND
Aroclor-1242	53469-21-9	17600	70400	ND	ND
Aroclor-1248	12672-29-6	17600	70400	ND	ND
Aroclor-1254	11097-69-1	17600	70400	ND	ND
Aroclor-1260	11096-82-5	17600	70400	64,000E	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA: Not Added
E: Estimated, ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-12

GC PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/14/92, LD
ANALYSIS (Date/Time/Init): 1/9/93, 21:25, DLL
1/11/93, 04:34, DLL

DATE REPORTED: 1/11/93

Quant Factor: 0.85
Extract Method: 3550
% Solids: 78.0

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Aroclor-1016	12674-11-2	85	341	680E	ND
Aroclor-1221	11104-28-2	85	341	ND	ND
Aroclor-1232	11141-16-5	85	341	ND	ND
Aroclor-1242	53469-21-9	85	341	ND	ND
Aroclor-1248	12672-29-6	85	341	ND	ND
Aroclor-1254	11097-69-1	85	341	ND	ND
Aroclor-1260	11096-82-5	85	341	1600	ND

Tetrachloro-m-xylene (surrogate std)	% Recovery	[OK = 60-150]	**	61

**Surrogate Diluted Out
NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

TPH (5520 C & F)

KIBER ENVIRONMENTAL SERVICES PROJECT # 21207

ANALYTICAL RESULTS

DOUGLASSVILLE BIO
WEEK 12

MATRIX : SOIL
SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date / Init) : 12/23/92 & 12/28/92, AAL

DATE REPORTED: 12/29/92

KES SAMPLE #	SAMPLE ID #	Percent Oil & Grease (5520-C)	Percent Hydrocarbons (5520-F)
A-1	21207-1	32.7	32.2
A-2	21207-2	37.2	34.7
A-3	21207-3	54.8	47.3
AC-1	21207-4	49.8	49.8
AC-2	21207-5	53.6	51.1
AC-3	21207-6	54.8	53.6
B-1	21207-7	57.4	55.5
B-2	21207-8	58.0	56.1
B-3	21207-9	54.8	49.8
BC-1	21207-10	52.3	52.3
BC-2	21207-11	51.1	48.6
BC-3	21207-12	52.3	52.3

Michael Hyn

TPH (Method 8015)

Case Narrative for Volatile Analysis

Project Name: Douglassville - Bio

Project Number: 21207

Analysis: TPH Volatile - 8015M

- Twelve soils sampled on 12-2-92 at 14:00 were received by the Analytical Department on 12-3-92. A medium level extraction was performed on the samples followed by analysis according to method CAL-DHS Volatiles (8015M) on a Hewlett-Packard 5970B MSD.
- The Method Detection Limits (MDLs) on the results form reflect the sample analysis amount.
- There were no apparent problems during analysis.

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-1

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 13:47, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-2

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 14:22, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-3

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 14:51, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-4

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 15:19, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hazen

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-5

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 15:47, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hazen

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-6

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 16:15, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-7

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 16:43, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-8

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 17:11, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael C Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-9

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 17:38, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hoy

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-10

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 18:06, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-11

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 18:34, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-12

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 19:02, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 06:12, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	190,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 07:16, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hy

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 09:23, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	200,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL:Method Detection Limit

Michael Hy

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-4

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 15:19, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hazen

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-5

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 15:47, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-6

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 16:15, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-7

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 16:43, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-8

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 17:11, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hagen

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-9

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 17:38, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-10

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 18:06, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-11

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 18:34, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-12

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/14/92, 19:02, KMC

DATE REPORTED: 12/16/92

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hyp

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 06:12, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	190,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 07:16, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hy

AR301674

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 09:23, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	200,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL:Method Detection Limit

Michael Hy

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/93, MG
ANALYSIS (Date/Time/Init): 1/12/92, 10:28, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyzer

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 12:36, RGB

DATE REPORTED:

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hay

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 13:43, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	250,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hy

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-7

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 17:03, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	220,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyn

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-8

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/12/93, 18:09, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hy

AR301680

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-9

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/13/93, 01:51, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	7000	ND
Kerosene	0.5	ND	ND
Oil	0.5	200,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyn

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-10

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/13/93, 02:56, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	180,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyn

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-11

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/13/93, 05:58, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	7000	ND
Kerosene	0.5	ND	ND
Oil	0.5	230,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyn

KIBER ENVIRONMENTAL SERVICES LAB SAMPLE # 21207-12

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTED (Date / Init) : 12/15/92, MG
ANALYSIS (Date/Time/Init): 1/13/93, 06:13, RGB

DATE REPORTED: 1/14/93

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	<MDL	ND
Kerosene	0.5	ND	ND
Oil	0.5	220,000E	ND

O-Terphenyl (Surrogate std)	% Recovery [OK=50-150]	**	60

**Surrogate Diluted Out
ND: Not Detected
MDL: Method Detection Limit

Michael Hyn

TCLP Volatiles

KIBER
ENVIRONMENTAL SERVICES, INC.

Case Narrative for Volatile Analysis
DOUGLASSVILLE - BIO
Project No. 21207

Project Name: DOUGLASSVILLE - BIO

Project Number: 21207

Analysis: Volatiles

- There were six soil samples received on 12/3/92 at 11:30. The test requested was TCLP volatile analysis. The the TCLP extracts of the submitted samples were analyzed by method SW-846-8260 on a Hewlett-Packard 5970B MSD.
- The Practical Quantitation Limits (PQLs) and the Method Detection Limits (MDLs) on the results form reflect the sample analysis amount.
- There were no apparent problems during analysis.
- Unless otherwise noted, Kiber will return samples after all samples are analyzed.

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KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-1

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 17:48, KMC
Quant List

DATE REPORTED: 12/31/92

Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	40E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	ND	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	ND	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	ND	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		110	109	105
Toluene-d8 (surrogate)	[OK=88-110]		107	109	103
Bromofluorobenzene (surrogate)	[OK=86-115]		101	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-2

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 20:36, KMC
Quant List

DATE REPORTED: 12/31/92

Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	35E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	<MDL	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	ND	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	3.0E	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	ND	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		108	109	105
Toluene-d8 (surrogate)	[OK=88-110]		103	109	103
Bromofluorobenzene (surrogate)	[OK=86-115]		98	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hyer

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-3

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 21:04, KMC
Quant List

DATE REPORTED: 12/31/92

Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	38E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	ND	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	31	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	ND	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		109	109	105
Toluene-d8 (surrogate)	[OK=88-110]		101	109	103
Bromofluorobenzene (surrogate)	[OK=86-115]		95	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-7

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 21:32, KMC
Quant List

DATE REPORTED: 12/31/92

Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	26E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	7.7	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	26	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	0.8E	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		106	109	105
Toluene-d8 (surrogate)	[OK=88-110]		103	109	103
romofluorobenzene (surrogate)	[OK=86-115]		96	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301690

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-8

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 22:00, KMC
Quant List

DATE REPORTED: 12/31/92

Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	21E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	<MDL	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	ND	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	ND	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	ND	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		114	109	105
Toluene-d8 (surrogate)	[OK=88-110]		103	109	103
Bromofluorobenzene (surrogate)	[OK=86-115]		101	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 21207-9

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
TCLP EXTRACT(Date/Init) : 12/16/92, EC
ANALYSIS (Date/Time/Init): 12/28/92, 22:27, KMC
Quant List

DATE REPORTED: 12/31/92
Factor: 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acetone	12.00	60.0	24E	ND	15E
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	ND	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	7.9	5.8	1.2E
4-Methyl-2-pentanone (MIBK)	2.00	10.0	ND	ND	ND
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	0.6E
Toluene	0.20	1.0	ND	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	ND	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	ND	ND	ND
SURROGATE RECOVERIES					
1,2-Dichloroethane-d4 (surrogate)	[OK=76-114]		114	109	105
Toluene-d8 (surrogate)	[OK=88-110]		99	109	103
Bromofluorobenzene (surrogate)	[OK=86-115]		100	108	100

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

TCLP Semivolatiles

Case Narrative for Semivolatile Analysis
DOUGLASSVILLE-BIO
Project No. 21207

Project Name: DOUGLASSVILLE-BIO

Project Number: 21207

Analysis: TCLP Semivolatiles

- There were six soil samples received on 12/2/92. The test requested was TCLP semivolatile analysis. The samples were analyzed by method SW-846-8270 on a Hewlett-Packard 5970B MSD.

- The Practical Quantitation Limits (PQLs) and the Method Detection Limits (MDLs) on the results form take into consideration the initial sample amount and percent solids.

- There were no apparent problems during analysis.

- Unless otherwise noted, Kiber will return samples within thirty days after all samples are analyzed.

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-1

DOUGLASSVILLE-BIO
SAMPLE # A-1
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 19:48, TAG
EXTRACTION (Date / Init) : 12/22/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 2.032
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.8	4.1	ND	ND
Acenaphthylene	208-96-8	1.0	4.3	ND	ND
Anthracene	120-12-7	0.6	2.6	ND	ND
Benzo(a)anthracene	56-55-3	0.4	2.0	ND	ND
Benzo(b)fluoranthene	205-99-2	0.6	2.4	ND	ND
Benzo(k)fluoranthene	207-08-9	0.4	1.6	ND	ND
Benzoic acid	65-85-0	13.2	65.6	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.4	1.8	ND	ND
Benzo(a)pyrene	193-39-5	0.4	2.0	ND	ND
Benzyl alcohol	100-51-6	0.6	3.0	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	0.6	2.4	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.6	2.8	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	1.0	4.3	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.8	4.1	4.0 E ✓	50
4-Bromophenyl-phenylether	101-55-3	0.8	3.3	ND	ND
Butylbenzylphthalate	85-68-7	1.0	4.3	ND	ND
4-Chloroaniline	106-47-8	0.6	2.4	ND	ND
4-Chloro-3-methylphenol	59-50-7	1.2	5.5	ND	ND
2-Chloronaphthalene	91-58-7	0.6	2.2	ND	ND
2-Chlorophenol	95-57-8	0.4	2.0	ND	ND
4-Chlorophenyl-phenylether	59-50-7	1.2	5.5	ND	ND
Chrysene	218-01-9	0.8	3.9	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.4	1.8	ND	ND
Dibenzofuran	132-64-9	1.0	5.1	ND	ND
Di-n-butylphthalate	84-74-2	0.6	2.4	3.8	7.7
1,2-Dichlorobenzene	95-50-1	0.4	2.0	ND	ND
1,3-Dichlorobenzene	541-73-1	0.6	2.6	ND	ND
1,4-Dichlorobenzene	106-46-7	0.6	2.4	ND	ND
3,3'-Dichlorobenzidine	91-94-1	1.4	6.7	ND	ND
2,4-Dichlorophenol	120-83-2	1.0	4.3	ND	ND
Diethylphthalate	84-66-2	0.8	4.1	ND	ND
2,4-Dimethylphenol	105-67-9	1.2	5.5	23	ND
Dimethylphthalate	131-11-3	0.8	3.3	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	19.5	96.9	ND	ND
2,4-Dinitrophenol	51-28-5	30.9	153.8	ND	ND
2,4-Dinitrotoluene	121-14-2	5.3	26.0	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hey

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-1

DOUGLASSVILLE-BIO
SAMPLE # A-1
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 19:48, TAG
EXTRACTION (Date / Init) : 12/22/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 2.032
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	5.3	26	ND	ND
Di-n-octylphthalate	117-84-0	1.4	6.5	ND	ND
Fluoranthene	206-44-0	0.4	1.6	ND	ND
Fluorene	7782-41-4	1	5.1	ND	ND
Hexachlorobenzene	118-74-1	1.2	5.5	ND	ND
Hexachlorobutadiene	87-68-3	0.8	3.5	ND	ND
Hexachlorocyclopentadiene	77-47-4	3.7	17.9	ND	ND
Hexachloroethane	67-72-1	1.4	6.3	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.6	2.6	ND	ND
Isophorone	78-59-1	0.6	3	4.4	ND
2-Methylnaphthalene	91-57-6	0.4	2	5.2	ND
2-Methylphenol	95-48-7	0.6	2.6	ND	ND
4-Methylphenol	106-44-5	0.8	3	ND	ND
Naphthalene	91-57-6	0.4	1.2	9.6	ND
2-Nitroaniline	88-74-4	1	4.5	ND	ND
3-Nitroaniline	99-09-3	3.5	17.3	ND	ND
4-Nitroaniline	100-01-6	1.8	8.5	ND	ND
Nitrobenzene	98-95-3	0.6	3	ND	ND
2-Nitrophenol	88-75-5	1.2	5.7	ND	ND
4-Nitrophenol	100-01-6	13.2	65.4	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.4	1.6	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.8	4.1	ND	ND
Pentachlorophenol	87-86-5	15.6	78.4	ND	ND
Phenanthrene	85-01-8	0.4	1.6	0.7 E ✓	ND
Phenol	108-95-2	0.6	2.8	ND	ND
Pyrene	129-00-0	1	4.9	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.8	3.9	4.9 ✓	4.1
2,4,5-Trichlorophenol	95-95-4	2.8	14.2	ND	ND
2,4,6-Trichlorophenol	88-06-02	4.3	21.3	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		28	41
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		25	30
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		68	62
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		70	68
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		47	67
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		72	92

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

Michael Hoy

ARS01696

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-2

DOUGLASSVILLE-BIO
SAMPLE # A-2
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 21:58, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.992
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.4	2.0	ND	ND
Acenaphthylene	208-96-8	0.5	2.1	ND	ND
Anthracene	120-12-7	0.3	1.3	ND	ND
Benzo(a)anthracene	56-55-3	0.2	1.0	ND	ND
Benzo(b)fluoranthene	205-99-2	0.3	1.2	ND	ND
Benzo(k)fluoranthene	207-08-9	0.2	0.8	ND	ND
Benzoic acid	65-85-0	6.4	32.0	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.2	0.9	ND	ND
Benzo(a)pyrene	193-39-5	0.2	1.0	ND	ND
Benzyl alcohol	100-51-6	0.3	1.5	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	0.3	1.2	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.3	1.4	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	0.5	2.1	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.4	2.0	1.7 E	46
4-Bromophenyl-phenylether	101-55-3	0.4	1.6	ND	ND
Butylbenzylphthalate	85-68-7	0.5	2.1	ND	ND
4-Chloroaniline	106-47-8	0.3	1.2	ND	ND
4-Chloro-3-methylphenol	59-50-7	0.6	2.7	ND	ND
2-Chloronaphthalene	91-58-7	0.3	1.1	ND	ND
2-Chlorophenol	95-57-8	0.2	1.0	ND	ND
4-Chlorophenyl-phenylether	59-50-7	0.6	2.7	ND	ND
Chrysene	218-01-9	0.4	1.9	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.2	0.9	ND	ND
Dibenzofuran	132-64-9	0.5	2.5	ND	ND
Di-n-butylphthalate	84-74-2	0.3	1.2	3.0	4.1
1,2-Dichlorobenzene	95-50-1	0.2	1.0	ND	ND
1,3-Dichlorobenzene	541-73-1	0.3	1.3	ND	ND
1,4-Dichlorobenzene	106-46-7	0.3	1.2	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.7	3.3	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	2.1	ND	ND
Diethylphthalate	84-66-2	0.4	2.0	ND	0.0
2,4-Dimethylphenol	105-67-9	0.6	2.7	18	ND
Dimethylphthalate	131-[illegible]1-3	0.4	1.6	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	9.5	47.3	ND	ND
2,4-Dinitrophenol	51-28-5	15.1	75.1	ND	ND
2,4-Dinitrotoluene	121-14-2	2.6	12.7	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-2

DOUGLASSVILLE-BIO
SAMPLE # A-2
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 21:58, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.992
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	2.6	12.7	ND	ND
Di-n-octylphthalate	117-84-0	0.7	3.2	ND	ND
Fluoranthene	206-44-0	0.2	0.8	ND	ND
Fluorene	7782-41-4	0.5	2.5	<MDL	ND
Hexachlorobenzene	118-74-1	0.6	2.7	ND	ND
Hexachlorobutadiene	87-68-3	0.4	1.7	ND	ND
Hexachlorocyclopentadiene	77-47-4	1.8	8.7	ND	ND
Hexachloroethane	67-72-1	0.7	3.1	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.3	1.3	ND	ND
Isophorone	78-59-1	0.3	1.5	5.0	ND
2-Methylnaphthalene	91-57-6	0.2	1	7.0	ND
2-Methylphenol	95-48-7	0.3	1.3	ND	ND
4-Methylphenol	106-44-5	0.4	1.5	1.2 E	ND
Naphthalene	91-57-6	0.2	0.6	12	ND
2-Nitroaniline	88-74-4	0.5	2.2	ND	ND
3-Nitroaniline	99-09-3	1.7	8.4	ND	ND
4-Nitroaniline	100-01-6	0.9	4.2	ND	ND
Nitrobenzene	98-95-3	0.3	1.5	ND	ND
2-Nitrophenol	88-75-5	0.6	2.8	ND	ND
4-Nitrophenol	100-01-6	6.4	31.9	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.2	0.8	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.4	2	ND	ND
Pentachlorophenol	87-86-5	7.6	38.3	ND	ND
Phenanthrene	85-01-8	0.2	0.8	0.6 E	ND
Phenol	108-95-2	0.3	1.4	ND	ND
Pyrene	129-00-0	0.5	2.4	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.4	1.9	0.8 E	2 E
2,4,5-Trichlorophenol	95-95-4	1.4	6.9	ND	ND
2,4,6-Trichlorophenol	88-06-02	2.1	10.4	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		42	32
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		31	22
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		75	59
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		71	63
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		111	61
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		86	75

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-3

DOUGLASSVILLE-BIO
SAMPLE # A-3
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 22:41, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.949
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.4	1.9	ND	ND
Acenaphthylene	208-96-8	0.5	2.0	ND	ND
Anthracene	120-12-7	0.3	1.2	ND	ND
Benzo(a)anthracene	56-55-3	0.2	0.9	ND	ND
Benzo(b)fluoranthene	205-99-2	0.3	1.1	ND	ND
Benzo(k)fluoranthene	207-08-9	0.2	0.8	ND	ND
Benzoic acid	65-85-0	6.2	30.7	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.2	0.9	ND	ND
Benzo(a)pyrene	193-39-5	0.2	0.9	ND	ND
Benzyl alcohol	100-51-6	0.3	1.4	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	0.3	1.1	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.3	1.3	0.5 E	ND
bis(2-Chloroisopropyl)ether	108-60-1	0.5	2.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.4	1.9	1.0 E	44
4-Bromophenyl-phenylether	101-55-3	0.4	1.5	ND	ND
Butylbenzylphthalate	85-68-7	0.5	2.0	ND	ND
4-Chloroaniline	106-47-8	0.3	1.1	ND	ND
4-Chloro-3-methylphenol	59-50-7	0.6	2.6	ND	ND
2-Chloronaphthalene	91-58-7	0.3	1.0	ND	ND
2-Chlorophenol	95-57-8	0.2	0.9	ND	ND
4-Chlorophenyl-phenylether	59-50-7	0.6	2.6	ND	ND
Chrysene	218-01-9	0.4	1.8	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.2	0.9	ND	ND
Dibenzofuran	132-64-9	0.5	2.4	ND	ND
Di-n-butylphthalate	84-74-2	0.3	1.1	3.1	3.9
1,2-Dichlorobenzene	95-50-1	0.2	0.9	ND	ND
1,3-Dichlorobenzene	541-73-1	0.3	1.2	ND	ND
1,4-Dichlorobenzene	106-46-7	0.3	1.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.7	3.1	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	2.0	ND	ND
Diethylphthalate	84-66-2	0.4	1.9	ND	0.0
2,4-Dimethylphenol	105-67-9	0.6	2.6	22	ND
Dimethylphthalate	131-11-3	0.4	1.5	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	9.1	45.3	ND	ND
2,4-Dinitrophenol	51-28-5	14.4	71.8	ND	ND
2,4-Dinitrotoluene	121-14-2	2.5	12.1	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-3

DOUGLASSVILLE-BIO
SAMPLE # A-3
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 22:41, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.949
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	2.5	12.1	ND	ND
Di-n-octylphthalate	117-84-0	0.7	3	ND	ND
Fluoranthene	206-44-0	0.2	0.8	ND	ND
Fluorene	7782-41-4	0.5	2.4	ND	ND
Hexachlorobenzene	118-74-1	0.6	2.6	ND	ND
Hexachlorobutadiene	87-68-3	0.4	1.6	ND	ND
Hexachlorocyclopentadiene	77-47-4	1.7	8.4	ND	ND
Hexachloroethane	67-72-1	0.7	2.9	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.3	1.2	ND	ND
Isophorone	78-59-1	0.3	1.4	4.7	ND
2-Methylnaphthalene	91-57-6	0.2	0.9	7.2	ND
2-Methylphenol	95-48-7	0.3	1.2	ND	ND
4-Methylphenol	106-44-5	0.4	1.4	1.3 E	ND
Naphthalene	91-57-6	0.2	0.6	13	ND
2-Nitroaniline	88-74-4	0.5	2.1	ND	ND
3-Nitroaniline	99-09-3	1.6	8.1	ND	ND
4-Nitroaniline	100-01-6	0.9	4	ND	ND
Nitrobenzene	98-95-3	0.3	1.4	ND	ND
2-Nitrophenol	88-75-5	0.6	2.7	ND	ND
4-Nitrophenol	100-01-6	6.2	30.6	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.2	0.8	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.4	1.9	ND	ND
Pentachlorophenol	87-86-5	7.3	36.6	ND	ND
Phenanthrene	85-01-8	0.2	0.8	0.7 E	ND
Phenol	108-95-2	0.3	1.3	ND	ND
Pyrene	129-00-0	0.5	2.3	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.4	1.8	0.5 E	2 E
2,4,5-Trichlorophenol	95-95-4	1.3	6.6	ND	ND
2,4,6-Trichlorophenol	88-06-02	2	10	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		41	32
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		31	22
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		77	59
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		68	63
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		116	61
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		87	75

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-7

DOUGLASSVILLE-BIO
SAMPLE # B-1
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 23:24, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.949
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.4	1.9	ND	ND
Acenaphthylene	208-96-8	0.5	2.0	ND	ND
Anthracene	120-12-7	0.3	1.2	ND	ND
Benzo(a)anthracene	56-55-3	0.2	0.9	ND	ND
Benzo(b)fluoranthene	205-99-2	0.3	1.1	ND	ND
Benzo(k)fluoranthene	207-08-9	0.2	0.8	ND	ND
Benzoic acid	65-85-0	6.1	30.6	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.2	0.9	ND	ND
Benzo(a)pyrene	193-39-5	0.2	0.9	ND	ND
Benzyl alcohol	100-51-6	0.3	1.4	ND	ND
bis(2-Chloroethoxy)methane	111-91--1	0.3	1.1	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.3	1.3	0.4 E	ND
bis(2-Chloroisopropyl)ether	108-60-1	0.5	2.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.4	1.9	ND	0.0
4-Bromophenyl-phenylether	101-55-3	0.4	1.5	ND	ND
Butylbenzylphthalate	85-68-7	0.5	2.0	ND	ND
4-Chloroaniline	106-47-8	0.3	1.1	ND	ND
4-Chloro-3-methylphenol	59-50-7	0.6	2.6	ND	ND
2-Chloronaphthalene	91-58-7	0.3	1.0	ND	ND
2-Chlorophenol	95-57-8	0.2	0.9	ND	ND
4-Chlorophenyl-phenylether	59-50-7	0.6	2.6	ND	ND
Chrysene	218-01-9	0.4	1.8	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.2	0.9	ND	ND
Dibenzofuran	132-64-9	0.5	2.4	ND	ND
Di-n-butylphthalate	84-74-2	0.3	1.1	1.4	3.9
1,2-Dichlorobenzene	95-50-1	0.2	0.9	ND	ND
1,3-Dichlorobenzene	541-73-1	0.3	1.2	ND	ND
1,4-Dichlorobenzene	106-46-7	0.3	1.1	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.7	3.1	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	2.0	ND	ND
Diethylphthalate	84-66-2	0.4	1.9	ND	0.0
2,4-Dimethylphenol	105-67-9	0.6	2.6	20	ND
Dimethylphthalate	131-11-3	0.4	1.5	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	9.1	45.1	ND	ND
2,4-Dinitrophenol	51-28-5	14.4	71.6	ND	ND
2,4-Dinitrotoluene	121-14-2	2.5	12.1	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hoyer

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-7

DOUGLASSVILLE-BIO
SAMPLE # B-1
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/30/92 23:24, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.949
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	2.5	12.1	ND	ND
Di-n-octylphthalate	117-84-0	0.7	3	ND	ND
Fluoranthene	206-44-0	0.2	0.8	ND	ND
Fluorene	7782-41-4	0.5	2.4	ND	ND
Hexachlorobenzene	118-74-1	0.6	2.6	ND	ND
Hexachlorobutadiene	87-68-3	0.4	1.6	ND	ND
Hexachlorocyclopentadiene	77-47-4	1.7	8.3	ND	ND
Hexachloroethane	67-72-1	0.7	2.9	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.3	1.2	ND	ND
Isophorone	78-59-1	0.3	1.4	4.0	ND
2-Methylnaphthalene	91-57-6	0.2	0.9	7.8	ND
2-Methylphenol	95-48-7	0.3	1.2	ND	ND
4-Methylphenol	106-44-5	0.4	1.4	ND	ND
Naphthalene	91-57-6	0.2	0.6	13	ND
2-Nitroaniline	88-74-4	0.5	2.1	ND	ND
3-Nitroaniline	99-09-3	1.6	8	ND	ND
4-Nitroaniline	100-01-6	0.9	4	ND	ND
Nitrobenzene	98-95-3	0.3	1.4	ND	ND
2-Nitrophenol	88-75-5	0.6	2.6	ND	ND
4-Nitrophenol	100-01-6	6.1	30.5	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.2	0.8	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.4	1.9	ND	ND
Pentachlorophenol	87-86-5	7.3	36.5	ND	ND
Phenanthrene	85-01-8	0.2	0.8	0.7 E ✓	ND
Phenol	108-95-2	0.3	1.3	ND	ND
Pyrene	129-00-0	0.5	2.3	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.4	1.8	0.5 E	2 E
2,4,5-Trichlorophenol	95-95-4	1.3	6.6	ND	ND
2,4,6-Trichlorophenol	88-06-02	2	9.9	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		44	32
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		31	22
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		74	59
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		68	63
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		106	61
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		84	75

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

AR301702

Kiber Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 21207-8

DOUGLASSVILLE-BIO
SAMPLE # B-2
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/31/92 0:07, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.992
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.4	2.0	ND	ND
Acenaphthylene	208-96-8	0.5	2.1	ND	ND
Anthracene	120-12-7	0.3	1.3	ND	ND
Benzo(a)anthracene	56-55-3	0.2	1.0	ND	ND
Benzo(b)fluoranthene	205-99-2	0.3	1.2	ND	ND
Benzo(k)fluoranthene	207-08-9	0.2	0.8	ND	ND
Benzoic acid	65-85-0	6.4	32.0	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.2	0.9	ND	ND
Benzo(a)pyrene	193-39-5	0.2	1.0	ND	ND
Benzyl alcohol	100-51-6	0.3	1.5	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	0.3	1.2	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.3	1.4	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	0.5	2.1	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.4	2.0	1.1 E ✓	46
4-Bromophenyl-phenylether	101-55-3	0.4	1.6	ND	ND
Butylbenzylphthalate	85-68-7	0.5	2.1	ND	ND
4-Chloroaniline	106-47-8	0.3	1.2	ND	ND
4-Chloro-3-methylphenol	59-50-7	0.6	2.7	ND	ND
2-Chloronaphthalene	91-58-7	0.3	1.1	ND	ND
2-Chlorophenol	95-57-8	0.2	1.0	ND	ND
4-Chlorophenyl-phenylether	59-50-7	0.6	2.7	ND	ND
Chrysene	218-01-9	0.4	1.9	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.2	0.9	ND	ND
Dibenzofuran	132-64-9	0.5	2.5	ND	ND
Di-n-butylphthalate	84-74-2	0.3	1.2	1.0 E	4.1
1,2-Dichlorobenzene	95-50-1	0.2	1.0	ND	ND
1,3-Dichlorobenzene	541-73-1	0.3	1.3	ND	ND
1,4-Dichlorobenzene	106-46-7	0.3	1.2	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.7	3.3	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	2.1	ND	ND
Diethylphthalate	84-66-2	0.4	2.0	ND	0.0
2,4-Dimethylphenol	105-67-9	0.6	2.7	13	ND
Dimethylphthalate	131-11-3	0.4	1.6	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	9.5	47.3	ND	ND
2,4-Dinitrophenol	51-28-5	15.1	75.1	ND	ND
2,4-Dinitrotoluene	121-14-2	2.6	12.7	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301703

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-8

DOUGLASSVILLE-BIO
SAMPLE # B-2
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/31/92 0:07, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 0.992
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	2.6	12.7	ND	ND
Di-n-octylphthalate	117-84-0	0.7	3.2	ND	ND
Fluoranthene	206-44-0	0.2	0.8	ND	ND
Fluorene	7782-41-4	0.5	2.5	ND	ND
Hexachlorobenzene	118-74-1	0.6	2.7	ND	ND
Hexachlorobutadiene	87-68-3	0.4	1.7	ND	ND
Hexachlorocyclopentadiene	77-47-4	1.8	8.7	ND	ND
Hexachloroethane	67-72-1	0.7	3.1	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.3	1.3	ND	ND
Isophorone	78-59-1	0.3	1.5	3.7	ND
2-Methylnaphthalene	91-57-6	0.2	1	6.1	ND
2-Methylphenol	95-48-7	0.3	1.3	ND	ND
4-Methylphenol	106-44-5	0.4	1.5	ND	ND
Naphthalene	91-57-6	0.2	0.6	8.9	ND
2-Nitroaniline	88-74-4	0.5	2.2	ND	ND
3-Nitroaniline	99-09-3	1.7	8.4	ND	ND
4-Nitroaniline	100-01-6	0.9	4.2	ND	ND
Nitrobenzene	98-95-3	0.3	1.5	ND	ND
2-Nitrophenol	88-75-5	0.6	2.8	ND	ND
4-Nitrophenol	100-01-6	6.4	31.9	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.2	0.8	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.4	2	ND	ND
Pentachlorophenol	87-86-5	7.6	38.3	ND	ND
Phenanthrene	85-01-8	0.2	0.8	0.6 E	ND
Phenol	108-95-2	0.3	1.4	ND	ND
Pyrene	129-00-0	0.5	2.4	<MDL	ND
1,2,4-Trichlorobenzene	120-82-1	0.4	1.9	1.2 E	2 E
2,4,5-Trichlorophenol	95-95-4	1.4	6.9	ND	ND
2,4,6-Trichlorophenol	88-06-02	2.1	10.4	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		37	32
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		27	22
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		60	59
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		61	63
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		94	61
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		71	75

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-9

DOUGLASSVILLE-BIO
SAMPLE # B-3
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/31/92 0:50, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 1.027
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
Acenaphthene	83-32-9	0.4	2.1	ND	ND
Acenaphthylene	208-96-8	0.5	2.2	ND	ND
Anthracene	120-12-7	0.3	1.3	ND	ND
Benzo(a)anthracene	56-55-3	0.2	1.0	ND	ND
Benzo(b)fluoranthene	205-99-2	0.3	1.2	ND	ND
Benzo(k)fluoranthene	207-08-9	0.2	0.8	ND	ND
Benzoic acid	65-85-0	6.7	33.2	ND	ND
Benzo(g,h,i)perylene	191-24-3	0.2	0.9	ND	ND
Benzo(a)pyrene	193-39-5	0.2	1.0	ND	ND
Benzyl alcohol	100-51-6	0.3	1.5	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	0.3	1.2	ND	ND
bis(2-Chloroethyl)ether	111-44-4	0.3	1.4	0.5 E	ND
bis(2-Chloroisopropyl)ether	108-60-1	0.5	2.2	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	0.4	2.1	1.2 E ✓	47
4-Bromophenyl-phenylether	101-55-3	0.4	1.6	ND	ND
Butylbenzylphthalate	85-68-7	0.5	2.2	ND	ND
4-Chloroaniline	106-47-8	0.3	1.2	ND	ND
4-Chloro-3-methylphenol	59-50-7	0.6	2.8	ND	ND
2-Chloronaphthalene	91-58-7	0.3	1.1	ND	ND
2-Chlorophenol	95-57-8	0.2	1.0	ND	ND
4-Chlorophenyl-phenylether	59-50-7	0.6	2.8	ND	ND
Chrysene	218-01-9	0.4	2.0	ND	ND
Dibenz(a,h)anthracene	53-70-3	0.2	0.9	ND	ND
Dibenzofuran	132-64-9	0.5	2.6	ND	ND
Di-n-butylphthalate	84-74-2	0.3	1.2	4.9	4.3
1,2-Dichlorobenzene	95-50-1	0.2	1.0	ND	ND
1,3-Dichlorobenzene	541-73-1	0.3	1.3	ND	ND
1,4-Dichlorobenzene	106-46-7	0.3	1.2	ND	ND
3,3'-Dichlorobenzidine	91-94-1	0.7	3.4	ND	ND
2,4-Dichlorophenol	120-83-2	0.5	2.2	ND	ND
Diethylphthalate	84-66-2	0.4	2.1	ND	0.0
2,4-Dimethylphenol	105-67-9	0.6	2.8	18	ND
Dimethylphthalate	131-11-3	0.4	1.6	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	9.9	49.0	ND	ND
2,4-Dinitrophenol	51-28-5	15.6	77.7	ND	ND
2,4-Dinitrotoluene	121-14-2	2.7	13.1	ND	ND

E:Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

Kiber Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-9

DOUGLASSVILLE-BIO
SAMPLE # B-3
TCLP EXTRACT

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
ANALYSIS (Date/Time/Init): 12/31/92 0:50, TAG
EXTRACTION (Date / Init) : 12/21/92, LD

DATE REPORTED: 1/6/93

Dilution Factor: 1.027
Extract Method: 3550

Sample Matrix LIQUID
Analysis Method 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Concentration ug/L	Blank Conc. ug/L
2,4-Dinitrotoluene	121-14-2	2.7	13.1	ND	ND
Di-n-octylphthalate	117-84-0	0.7	3.3	ND	ND
Fluoranthene	206-44-0	0.2	0.8	ND	ND
Fluorene	7782-41-4	0.5	2.6	<MDL	ND
Hexachlorobenzene	118-74-1	0.6	2.8	ND	ND
Hexachlorobutadiene	87-68-3	0.4	1.7	ND	ND
Hexachlorocyclopentadiene	77-47-4	1.8	9	ND	ND
Hexachloroethane	67-72-1	0.7	3.2	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	0.3	1.3	ND	ND
Isophorone	78-59-1	0.3	1.5	4.0	ND
2-Methylnaphthalene	91-57-6	0.2	1	7.1	ND
2-Methylphenol	95-48-7	0.3	1.3	ND	ND
4-Methylphenol	106-44-5	0.4	1.5	ND	ND
Naphthalene	91-57-6	0.2	0.6	11	ND
2-Nitroaniline	88-74-4	0.5	2.3	ND	ND
3-Nitroaniline	99-09-3	1.7	8.7	ND	ND
4-Nitroaniline	100-01-6	0.9	4.3	ND	ND
Nitrobenzene	98-95-3	0.3	1.5	ND	ND
2-Nitrophenol	88-75-5	0.6	2.9	ND	ND
4-Nitrophenol	100-01-6	6.7	33.1	ND	ND
N-Nitrosodiphenylamine*	86-30-6	0.2	0.8	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	0.4	2.1	ND	ND
Pentachlorophenol	87-86-5	7.9	39.6	ND	ND
Phenanthrene	85-01-8	0.2	0.8	0.6 E ✓	ND
Phenol	108-95-2	0.3	1.4	ND	ND
Pyrene	129-00-0	0.5	2.5	ND	ND
1,2,4-Trichlorobenzene	120-82-1	0.4	2	ND	0.0
2,4,5-Trichlorophenol	95-95-4	1.4	7.2	ND	ND
2,4,6-Trichlorophenol	88-06-02	2.2	10.8	ND	ND
2-Fluorophenol (surrogate std)	%recovery	[OK=21-110]		41	32
Phenol-d6 (surrogate std)	%recovery	[OK=10-110]		31	22
Nitrobenzene-d5 (surrogate std)	%recovery	[OK=35-114]		71	59
2-Fluorobiphenyl (surrogate std)	%recovery	[OK=43-116]		74	63
2,4,6-Tribromophenol (surrogate std)	%recovery	[OK=10-123]		106	61
Terphenyl-d14 (surrogate std)	%recovery	[OK=33-141]		82	75

E: Estimated, ND: Not detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as Diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 21207-1MS

BARR DOUGLASSVILLE
SAMPLE # A-1
TCLP EXTRACT

SAMPLED (Date/Time/Init): 12/2/92, 14:00, BSI
EXTRACTION (Date/Init): 12/21/92, LD
ANALYSIS (Date/Time/Init): 12/30/92, 20:31, TAG
Sample Matrix: WATER
Analysis Method: 8270

DATE REPORTED: 1/7/92

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	46- 118	75
4-Chloro-3-methylphenol	59-50-7	23- 97	86
2-Chlorophenol	95-57-8	27- 123	70
1,4-Dichlorobenzene	106-46-7	36- 97	70
2,4-Dinitrotoluene	121-14-2	24- 96	68
4-Nitrophenol	100-02-7	10- 80	51
N-Nitroso-di-n-propylamine	621-64-7	41- 116	68
Pentachlorophenol	87-86-5	9- 103	110
Phenol	108-95-2	12- 110	48
Pyrene	129-00-0	26- 127	84
1,2,4-Trichlorobenzene	120-82-1	39- 98	88
2-Fluorophenol	% Recovery	[OK=21-110]	55
Phenol-d5	% Recovery	[OK=10-110]	47
Nitrobenzene-d5	% Recovery	[OK=35-114]	72
2-Fluorobiphenyl	% Recovery	[OK=43-116]	68
2,4,6-Tribromophenol	% Recovery	[OK=10-123]	102
Terphenyl-d14	% Recovery	[OK=33-141]	77

ANALYSIS (Date/Time/Init): 12/30/92, 21:14, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	RPD
Acenaphthene	83-32-9	46- 118	79	5
4-Chloro-3-methylphenol	59-50-7	23- 97	82	5
2-Chlorophenol	95-57-8	27- 123	68	3
1,4-Dichlorobenzene	106-46-7	36- 97	61	14
2,4-Dinitrotoluene	121-14-2	24- 96	73	7
4-Nitrophenol	100-02-7	10- 80	53	4
N-Nitroso-di-n-propylamine	621-64-7	41- 116	66	3
Pentachlorophenol	87-86-5	9- 103	104	6
Phenol	108-95-2	12- 110	48	0
Pyrene	129-00-0	26- 127	82	2
1,2,4-Trichlorobenzene	120-82-1	39- 98	77	13
2-Fluorophenol	% Recovery	[OK=21-110]	56	
Phenol-d5	% Recovery	[OK=10-110]	49	
Nitrobenzene-d5	% Recovery	[OK=35-114]	72	
2-Fluorobiphenyl	% Recovery	[OK=43-116]	77	
2,4,6-Tribromophenol	% Recovery	[OK=10-123]	106	
Terphenyl-d14	% Recovery	[OK=33-141]	80	

Michael Hayes

TCLP PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-1

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/22/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 20:04, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.03 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	3.0	12.0	ND	ND	ND
Aroclor-1221	3.0	12.0	ND	ND	ND
Aroclor-1232	3.0	12.0	ND	ND	ND
Aroclor-1242	3.0	12.0	ND	ND	ND
Aroclor-1248	3.0	12.0	ND	ND	ND
Aroclor-1254	3.0	12.0	ND	ND	ND
Aroclor-1260	3.0	12.0	ND	ND	ND

Tetrachloro-m-xylene (surrogate std) [OK=60-150]	93	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-2

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/22/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 20:48, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Tetrachloro-m-xylene (surrogate std) [OK=60-150]	99	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-3

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/22/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 21:31, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

*SEE CASE NARRATIVE

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Tetrachloro-m-xylene (surrogate std) [OK=60-150]	41*	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-4

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/22/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 22:15, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Decachlorobiphenyl (surrogate std) [OK=60-150]	78	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-5

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 22:58, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Decachlorobiphenyl (surrogate std) [OK=60-150]	61	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-6

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # AC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/8/93, 23:41, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND
Tetrachloro-m-xylene (surrogate std) [OK=60-150]			94	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-7

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, 00:25, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method : 8080

*SEE CASE NARRATIVE

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Decachlorobiphenyl (surrogate std) [OK=60-150]	32*	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

IBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-8

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, 01:08, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Decachlorobiphenyl (surrogate std) [OK=60-150]	143	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-9

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, 06:12, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Decachlorobiphenyl (surrogate std) [OK=60-150]	72	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-10

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-1

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND
Tetrachloro-m-xylene (surrogate std) [OK=60-150]			137	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-11

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-2

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, 07:40, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND

Tetrachloro-m-xylene (surrogate std) [OK=60-150]	117	78	89

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 21207-12

GC-PCB RESULTS

DOUGLASSVILLE-BIO
SAMPLE # BC-3

SAMPLED (Date/Time/Init) : 12/2/92, 14:00, BSI
TCLP Extraction (Date/Init) : 12/17/92, EC
EXTRACTED (Date / Init) : 12/23/92, LD
ANALYSIS (Date/Time/Init) : 1/9/93, 08:23, DLL

DATE REPORTED: 1/15/93

Quant Factor: 0.01 Sample Matrix : TCLP Extract
Extract Method: 3510 Analysis Method :8080

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Aroclor-1016	1.0	4.0	ND	ND	ND
Aroclor-1221	1.0	4.0	ND	ND	ND
Aroclor-1232	1.0	4.0	ND	ND	ND
Aroclor-1242	1.0	4.0	ND	ND	ND
Aroclor-1248	1.0	4.0	ND	ND	ND
Aroclor-1254	1.0	4.0	ND	ND	ND
Aroclor-1260	1.0	4.0	ND	ND	ND
Decachlorobiphenyl (surrogate std) [OK=60-150]			103	63	63

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

TCLP Lead

Case Narrative for Metal Analysis

Project: Douglassville Bioremediation
LSDG: 21207

Analysis - Metal analysis were performed in accordance to EPA SW-846 Methods. Analysis were performed on the six TCLP extracts as requested by the client.

QA/QC - All appropriate QC data was within acceptable control limits.

Analytical Difficulties - During digestion sample # 21207-8 blew. This sample was redigested with no difficulties.

KIBER ENVIRONMENTAL SERVICES

PROJECT # : 21207

METAL RESULTS

PROJECT NAME: DOUGLASSVILLE-BIO
SAMPLED (Date/Time): 12/2/92, 14:00
ANALYTE: TCLP LEAD
EPA METHOD: 6010
ICP ANALYSIS (Date/Init) : 12/18/92

DATE REPORTED: 12/21/92

KES SAMPLE #	ASD #	DL	Result	Units
A-1	21207-1	.019	.43	mg/L
A-2	21207-2	.019	.66	mg/L
A-3	21207-3	.019	.51	mg/L
B-1	21207-7	.019	.47	mg/L
B-2	21207-8	.019	.53	mg/L
B-3	21207-9	.019	.62	mg/L

DL : Detection Limit

Michael Hy