

Appendix F.3

Background Concentrations

Appendix F-3
Raymark OU3
Soil/Sediment Background Data

Matrix	Fraction	Parameter	Units	Frequency	Range Of Detects	Range Of Nondefects	Average	Maximum	Location of Maximum
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,4,6,7,8-HPCDD	UG/KG	4/4	0.00726 - 0.34857	-	0.11011	0.34857	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,4,6,7,8-HPCDF	UG/KG	4/4	0.00263 - 0.10316	-	0.043245	0.10316	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,4,7,8-HXCDD	UG/KG	2/4	0.00022 - 0.00622	0.0006 - 0.00984	0.002915	0.00622	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,4,7,8-HXCDF	UG/KG	1/4	0.00078 - 0.00078	0.00066 - 0.00973	0.0024325	0.00078	RM-SD-GM07-04
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,6,7,8-HXCDD	UG/KG	2/4	0.00033 - 0.01788	0.00075 - 0.00968	0.00585625	0.01788	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,6,7,8-HXCDF	UG/KG	1/4	0.00055 - 0.00055	0.00081 - 0.0068	0.0018375	0.00055	RM-SD-GM02-01
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,7,8,9-HXCDD	UG/KG	1/4	0.00033 - 0.00033	0.00072 - 0.01678	0.003745	0.00033	RM-SD-GM02-01
SOIL/SEDIMENT/WETLAND	DIOXI	1,2,3,7,8,9-HXCDF	UG/KG	2/4	0.00031 - 0.00755	0.00103 - 0.00644	0.00289875	0.00755	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	2,3,7,8-TCDF	UG/KG	3/4	0.00097 - 0.00994	0.00053 - 0.00053	0.00418625	0.00994	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	OCDD	UG/KG	4/4	0.16671 - 3.64659	-	1.6016375	3.64659	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	OCDF	UG/KG	4/4	0.00672 - 0.2442	-	0.115875	0.2442	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL HPCDD	UG/KG	4/4	0.01589 - 0.76351	-	0.2595375	0.76351	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL HPCDF	UG/KG	4/4	0.01013 - 0.64704	-	0.23091	0.64704	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL HXCDD	UG/KG	4/4	0.00112 - 0.05964	-	0.0254	0.05964	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL HXCDF	UG/KG	4/4	0.00637 - 0.65412	-	0.2633475	0.65412	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL PCDF	UG/KG	4/4	0.00616 - 0.87881	-	0.4017375	0.87881	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL TCDD	UG/KG	3/4	0.00048 - 0.00546	0.00013 - 0.00013	0.00277125	0.00546	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOTAL TCDF	UG/KG	3/4	0.01123 - 0.72167	0.00399 - 0.00399	0.25400625	0.72167	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	DIOXI	TOXICITY EQUIVALENCY FACTOR	UG/KG	4/4	0.000461 - 0.01133	-	0.00451775	0.01133	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	M	ALUMINUM	MG/KG	43/43	926 - 22600	-	12784.32558	22600	SMS-G3
SOIL/SEDIMENT/WETLAND	M	ARSENIC	MG/KG	42/43	0.62 - 14.2	1.5 - 1.5	5.836511628	14.2	RM-SD-GM07-04
SOIL/SEDIMENT/WETLAND	M	BARIUM	MG/KG	42/43	5.3 - 329	4.1 - 4.1	55.13837209	329	EX-91
SOIL/SEDIMENT/WETLAND	M	BERYLLIUM	MG/KG	37/43	0.26 - 1.3	0.25 - 0.82	0.694302326	1.3	EWS-G5B
SOIL/SEDIMENT/WETLAND	M	BERYLLIUM	MG/KG	37/43	0.26 - 1.3	0.25 - 0.82	0.694302326	1.3	THN-G2
SOIL/SEDIMENT/WETLAND	M	CADMIUM	MG/KG	8/43	0.43 - 1.4	0.39 - 1.4	0.388139535	1.4	EX-91
SOIL/SEDIMENT/WETLAND	M	CALCIUM	MG/KG	43/43	161 - 7420	-	1637.976744	7420	UMC-92
SOIL/SEDIMENT/WETLAND	M	CHROMIUM	MG/KG	43/43	6.2 - 107	-	21.04418605	107	RM-SD-GM07-04
SOIL/SEDIMENT/WETLAND	M	COBALT	MG/KG	33/43	1.6 - 14.9	2 - 8.8	6.565116279	14.9	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	M	COPPER	MG/KG	42/43	9.2 - 336	11.9 - 11.9	41.06860465	336	RM-SD-GM07-04
SOIL/SEDIMENT/WETLAND	M	IRON	MG/KG	43/43	3110 - 35300	-	16604.65116	35300	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	M	LEAD	MG/KG	40/42	3.7 - 344	19.1 - 21.7	81.83095238	344	EX-91
SOIL/SEDIMENT/WETLAND	M	MAGNESIUM	MG/KG	43/43	368 - 10400	-	3530.186047	10400	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	M	MANGANESE	MG/KG	43/43	35.8 - 660	-	297.0674419	660	LSSE+125
SOIL/SEDIMENT/WETLAND	M	MERCURY	MG/KG	28/43	0.07 - 1.2	0.07 - 0.12	0.158139535	1.2	RM-SD-GM07-04
SOIL/SEDIMENT/WETLAND	M	NICKEL	MG/KG	33/43	4.4 - 40.4	3 - 18.1	13.25465116	40.4	LSSA+00
SOIL/SEDIMENT/WETLAND	M	POTASSIUM	MG/KG	27/43	517 - 5020	53.7 - 894	1134.054651	5020	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	M	SELENIUM	MG/KG	6/43	0.95 - 3.3	0.31 - 3.4	0.54	3.3	THN-G2
SOIL/SEDIMENT/WETLAND	M	SILVER	MG/KG	2/43	0.58 - 3.3	0.31 - 1.9	0.509883721	3.3	GLC004
SOIL/SEDIMENT/WETLAND	M	SODIUM	MG/KG	25/38	66.4 - 15000	50 - 168	953.7026316	15000	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	M	VANADIUM	MG/KG	42/43	6.5 - 81.9	3.1 - 3.1	34.38255814	81.9	SH-A+00
SOIL/SEDIMENT/WETLAND	M	ZINC	MG/KG	43/43	9.8 - 604	-	114.3651163	604	LBP012
SOIL/SEDIMENT/WETLAND	OS	ANTHRACENE	UG/KG	1/4	1300 - 1300	430 - 820	577.5	1300	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	BENZO(A)ANTHRACENE	UG/KG	2/4	460 - 7000	430 - 770	2015	7000	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	BENZO(A)PYRENE	UG/KG	1/4	5800 - 5800	430 - 820	1702.5	5800	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	BENZO(B)FLUORANTHENE	UG/KG	3/4	300 - 12000	430 - 430	3291.25	12000	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	BENZO(G,H,I)PERYLENE	UG/KG	1/4	2700 - 2700	430 - 820	927.5	2700	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	2/4	270 - 1600	430 - 770	617.5	1600	RM-SD-RF01-04

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Soil/Sediment Background Data

Matrix	Fraction	Parameter	Units	Frequency	Range Of Detects	Range Of Nondetects	Average	Maximum	Location of Maximum
SOIL/SEDIMENT/WETLAND	OS	CARBAZOLE	UG/KG	1/4	1100 - 1100	430 - 820	527.5	1100	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	CHRYSENE	UG/KG	2/4	450 - 6700	430 - 770	1937.5	6700	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	DIBENZO(A,H)ANTHRACENE	UG/KG	1/4	2000 - 2000	430 - 820	752.5	2000	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	FLUORANTHENE	UG/KG	4/4	23 - 14000	-	3770.75	14000	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	INDENO(1,2,3-CD)PYRENE	UG/KG	1/4	5200 - 5200	430 - 820	1552.5	5200	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	PHENANTHRENE	UG/KG	2/4	300 - 6700	430 - 770	1900	6700	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OS	PYRENE	UG/KG	4/4	22 - 9300	-	2485.5	9300	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	OV	CARBON DISULFIDE	UG/KG	2/4	8 - 31	13 - 18	13.625	31	RM-SD-GM08-04
SOIL/SEDIMENT/WETLAND	OV	TOLUENE	UG/KG	1/4	7 - 7	13 - 25	9.375	7	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	PESTP	4,4'-DDD	UG/KG	3/39	0.28 - 5.8	3.3 - 20	4.478974359	5.8	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	PESTP	4,4'-DDE	UG/KG	14/38	0.15 - 240	3.3 - 20	15.94315789	240	THG005
SOIL/SEDIMENT/WETLAND	PESTP	4,4'-DDT	UG/KG	15/38	0.22 - 400	3.3 - 20	27.77026316	400	THG005
SOIL/SEDIMENT/WETLAND	PESTP	ALDRIN	UG/KG	3/40	0.14 - 2.6	1.7 - 10	2.2645	2.6	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	PESTP	ALPHA-CHLORDANE	UG/KG	12/39	0.05 - 44	1.7 - 9.8	4.535307692	44	NS-E+200
SOIL/SEDIMENT/WETLAND	PESTP	AROCLOR, TOTAL	UG/KG	10/41	154 - 810	165.5 - 1005	252.4390244	810	NS-G+300
SOIL/SEDIMENT/WETLAND	PESTP	AROCLOR, TOTAL	UG/KG	10/41	154 - 810	165.5 - 1005	252.4390244	810	NS-B+200
SOIL/SEDIMENT/WETLAND	PESTP	DELTA-BHC	UG/KG	1/40	1.3 - 1.3	1.7 - 10	2.17125	1.3	THG005
SOIL/SEDIMENT/WETLAND	PESTP	DIELDRIN	UG/KG	8/37	2.6 - 190	3.3 - 19	12.92162162	190	NS-E+200
SOIL/SEDIMENT/WETLAND	PESTP	ENDOSULFAN I	UG/KG	3/39	22 - 47	1.7 - 9.8	4.264102564	47	NS-E+200
SOIL/SEDIMENT/WETLAND	PESTP	ENDOSULFAN II	UG/KG	7/40	0.16 - 6	3.3 - 20	4.34925	6	SH-A+00
SOIL/SEDIMENT/WETLAND	PESTP	ENDRIN	UG/KG	4/40	0.12 - 4.5	3.3 - 20	4.412	4.5	HBN-G4
SOIL/SEDIMENT/WETLAND	PESTP	ENDRIN ALDEHYDE	UG/KG	3/40	0.2 - 3.7	3.3 - 20	4.21575	3.7	HP-GR7
SOIL/SEDIMENT/WETLAND	PESTP	ENDRIN KETONE	UG/KG	4/39	1.8 - 9.5	3.3 - 20	5.071794872	9.5	LSSE+125
SOIL/SEDIMENT/WETLAND	PESTP	GAMMA-BHC (LINDANE)	UG/KG	3/40	0.03 - 2.2	1.7 - 10	2.249	2.2	RM-SD-RF01-04
SOIL/SEDIMENT/WETLAND	PESTP	GAMMA-CHLORDANE	UG/KG	8/37	0.15 - 13	1.7 - 9.8	2.82027027	13	EWS-G5B
SOIL/SEDIMENT/WETLAND	PESTP	HEPTACHLOR	UG/KG	2/39	0.28 - 1	1.7 - 10	2.090512821	1	THG005
SOIL/SEDIMENT/WETLAND	PESTP	HEPTACHLOR EPOXIDE	UG/KG	3/39	1.6 - 2.3	1.7 - 10	2.266666667	2.3	LSSB+365
SOIL/SEDIMENT/WETLAND	PESTP	METHOXYCHLOR	UG/KG	4/38	4.1 - 18	3.6 - 100	21.79736842	18	CC5
SOIL/SEDIMENT/WETLAND	PESTP	TOXAPHENE	UG/KG	2/40	1.4 - 5.7	170 - 1000	221.4275	5.7	HBN-G4
Note:	Average concentrations were calculated assuming 1/2 Detection Limit for all reported non-detect values.								

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	RM-SD-GM02-01	RM-SD-GM07-04	RM-SD-GM08-04	RM-SD-RF01-04
Sample Location	GM02	GM07	GM08	RF01
Date Sampled	8/16/94	8/16/95	8/16/95	8/7/95
QC Type	None	None	None	None
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Filtering	NA	NA	NA	NA
Volatile Organic Compounds (UG/KG)				
1,1,1-TRICHLOROETHANE	13 U	23 U	25 U	18 U
1,1,2,2-TETRACHLOROETHANE	13 U	23 U	25 U	18 U
1,1,2-TRICHLOROETHANE	13 U	23 U	25 U	18 U
1,1-DICHLOROETHANE	13 U	23 U	25 U	18 U
1,1-DICHLOROETHENE	13 U	23 U	25 U	18 U
1,2-DICHLOROETHANE	13 U	23 U	25 U	18 U
1,2-DICHLOROETHENE (TOTAL)	13 U	23 U	25 U	18 U
1,2-DICHLOROPROPANE	13 U	23 U	25 U	18 U
2-BUTANONE	13 U	23 U	25 U	18 U
2-HEXANONE	13 U	23 U	25 U	18 U
4-METHYL-2-PENTANONE	13 U	23 U	25 U	18 U
ACETONE	13 U	81 UJ	110 UJ	38 U
BENZENE	13 U	23 U	25 U	18 U
BROMODICHLOROMETHANE	13 U	23 U	25 U	18 U
BROMOFORM	13 U	23 U	25 U	18 U
BROMOMETHANE	13 UJ	23 UJ	25 UJ	18 U
CARBON DISULFIDE	13 U	8 J	31	18 U
CARBON TETRACHLORIDE	13 U	23 U	25 U	18 U
CHLOROBENZENE	13 U	23 U	25 U	18 U
CHLOROETHANE	13 U	23 U	25 U	18 U
CHLOROFORM	13 U	23 U	25 U	18 U
CHLOROMETHANE	13 U	23 U	25 U	18 U
CIS-1,3-DICHLOROPROPENE	13 U	23 U	25 U	18 U
DIBROMOCHLOROMETHANE	13 U	23 U	25 U	18 U
ETHYLBENZENE	13 U	23 U	25 U	18 U
METHYLENE CHLORIDE	13 U	23 U	25 U	18 U
STYRENE	13 U	23 U	25 U	18 U
TETRACHLOROETHENE	13 U	23 U	25 U	18 U
TOLUENE	13 U	23 U	25 U	7 J
TRANS-1,3-DICHLOROPROPENE	13 U	23 U	25 U	18 U
TRICHLOROETHENE	13 U	23 U	25 U	18 U
VINYL CHLORIDE	13 U	23 U	25 U	18 U
XYLENES, TOTAL	13 U	23 U	25 U	18 U

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
* - From dilution analysis; R - Rejected; NA - Not Analyzed

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OJ3
STRATFORD, CONNECTICUT

Sample Number	RM-SD-GM02-01	RM-SD-GM07-04	RM-SD-GM08-04	RM-SD-RF01-04
Sample Location	GM02	GM07	GM08	RF01
Date Sampled	8/16/94	8/16/95	8/16/95	8/7/95
QC Type	None	None	None	None
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Filtering	NA	NA	NA	NA
Semivolatile Organic Compounds (UG/KG)				
1,2,4-TRICHLOROBENZENE	430 U	770 U	820 U	2900 UJ
1,2-DICHLOROBENZENE	430 U	770 U	820 U	2900 UJ
1,3-DICHLOROBENZENE	430 U	770 U	820 U	2900 UJ
1,4-DICHLOROBENZENE	430 U	770 U	820 U	2900 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	430 UJ	770 U	820 U	2900 UJ
2,4,5-TRICHLOROPHENOL	1000 U	1900 U	2000 U	7100 UJ
2,4,6-TRICHLOROPHENOL	430 U	770 U	820 U	2900 UJ
2,4-DICHLOROPHENOL	430 U	770 U	820 U	2900 UJ
2,4-DIMETHYLPHENOL	430 U	770 U	820 U	2900 UJ
2,4-DINITROPHENOL	1000 U	1900 U	2000 U	7100 UJ
2,4-DINITROTOLUENE	430 U	770 U	820 U	2900 UJ
2,6-DINITROTOLUENE	430 U	770 U	820 U	2900 UJ
2-CHLORONAPHTHALENE	430 U	770 U	820 U	2900 UJ
2-CHLOROPHENOL	430 U	770 U	820 U	2900 UJ
2-METHYLNAPHTHALENE	430 U	770 U	820 U	2900 UJ
2-METHYLPHENOL	430 U	770 U	820 U	2900 UJ
2-NITROANILINE	1000 U	1900 U	2000 U	7100 UJ
2-NITROPHENOL	430 U	770 U	820 U	2900 UJ
3,3'-DICHLOROBENZIDINE	430 U	770 U	820 U	2900 UJ
3-NITROANILINE	1000 U	1900 UJ	2000 UJ	7100 UJ
4,6-DINITRO-2-METHYLPHENOL	1000 U	1900 U	2000 U	7100 UJ
4-BROMOPHENYL PHENYL ETHER	430 U	770 U	820 U	2900 UJ
4-CHLORO-3-METHYLPHENOL	430 U	770 U	820 U	2900 UJ
4-CHLOROANILINE	430 U	770 U	820 U	2900 UJ
4-CHLOROPHENYL PHENYL ETHER	430 U	770 U	820 U	2900 UJ
4-METHYLPHENOL	430 U	770 U	820 U	2900 UJ
4-NITROANILINE	1000 U	1900 U	2000 U	7100 UJ
4-NITROPHENOL	1000 U	1900 U	2000 U	7100 UJ
ACENAPHTHENE	430 U	770 U	820 U	2900 UJ
ACENAPHTHYLENE	430 U	770 U	820 U	2900 UJ
ANTHRACENE	430 U	770 U	820 U	1300 J
BENZO(A)ANTHRACENE	430 U	770 U	460 J	7000 J
BENZO(A)PYRENE	430 U	770 U	820 U	5800 J
BENZO(B)FLUORANTHENE	430 U	300 J	650 J	12000 J
BENZO(G,H,I)PERYLENE	430 U	770 U	820 U	2700 J
BENZO(K)FLUORANTHENE	430 U	770 U	820 U	2900 UJ
BIS(2-CHLOROETHOXY)METHANE	430 U	770 U	820 U	2900 UJ
BIS(2-CHLOROETHYL)ETHER	430 U	770 U	820 U	2900 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	430 U	770 U	270 J	1600 J
BUTYLBENZYL PHTHALATE	430 U	770 U	820 U	2900 UJ
CARBAZOLE	430 U	770 U	820 U	1100 J
CHRYSENE	430 U	770 U	450 J	6700 J
DI-N-BUTYL PHTHALATE	430 U	770 U	820 U	2900 UJ
DI-N-OCTYL PHTHALATE	430 U	770 U	820 U	2900 UJ
DIBENZO(A,H)ANTHRACENE	430 U	770 U	820 U	2000 J

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	RM-SD-GM02-01	RM-SD-GM07-04	RM-SD-GM08-04	RM-SD-RF01-04
Sample Location	GM02	GM07	GM08	RF01
Date Sampled	8/16/94	8/16/95	8/16/95	8/7/95
QC Type	None	None	None	None
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Filtering	NA	NA	NA	NA
DIBENZOFURAN	430 U	770 U	820 U	2900 UJ
DIETHYL PHTHALATE	430 U	770 U	820 U	2900 UJ
DIMETHYL PHTHALATE	430 U	770 U	820 U	2900 UJ
FLUORANTHENE	23 J	320 J	740 J	14000 J
FLUORENE	430 U	770 U	820 U	2900 UJ
HEXACHLOROBENZENE	430 U	770 U	820 U	2900 UJ
HEXACHLOROBUTADIENE	430 U	770 U	820 U	2900 UJ
HEXACHLOROCYCLOPENTADIENE	430 U	770 U	820 U	2900 UJ
HEXACHLOROETHANE	430 U	770 U	820 U	2900 UJ
INDENO(1,2,3-CD)PYRENE	430 U	770 U	820 U	5200 J
ISOPHORONE	430 U	770 U	820 U	2900 UJ
N-NITROSO-DI-N-PROPYLAMINE	430 U	770 U	820 U	2900 UJ
N-NITROSODIPHENYLAMINE	430 U	770 U	820 U	2900 UJ
NAPHTHALENE	430 U	770 U	820 U	2900 UJ
NITROBENZENE	430 U	770 U	820 U	2900 UJ
PENTACHLOROPHENOL	1000 U	1900 U	2000 U	7100 UJ
PHENANTHRENE	430 U	770 U	300 J	6700 J
PHENOL	430 U	770 U	820 U	2900 UJ
PYRENE	22 J	260 J	360 J	9300 J
Pesticides/PCBs (UG/KG)				
4,4'-DDD	3.3 U	0.28 J	1.5 J	5.8
4,4'-DDE	3.3 U	0.15 J	0.54 J	3.6 U
4,4'-DDT	3.3 U	3.3 U	0.22 J	4.4
ALDRIN	1.7 U	0.14 J	0.19 J	2.6
ALPHA-BHC	1.7 U	1.7 U	1.7 U	6.1 U
ALPHA-CHLORDANE	0.077 J	0.05 J	0.15 J	1.8 U
AROCLOR, TOTAL	165.5 U	165.5 U	165.5 U	180 U
AROCLOR-1016	33 U	33 U	33 U	36 U
AROCLOR-1221	67 U	67 U	67 U	72 U
AROCLOR-1232	33 U	33 U	33 U	36 U
AROCLOR-1242	33 U	33 U	33 U	36 U
AROCLOR-1248	33 U	33 U	33 U	36 UJ
AROCLOR-1254	33 U	33 U	33 U	36 U
AROCLOR-1260	33 U	33 U	33 U	36 U
AROCLOR-1262	33 U	33 U	33 U	36 U
AROCLOR-1268	33 U	33 U	33 U	36 U
BETA-BHC	1.7 U	1.7 U	1.7 U	1.8 U
DELTA-BHC	1.7 U	1.7 U	1.7 U	1.8 U
DIELDRIN	3.3 U	3.3 U	3.3 U	3.6 U
ENDOSULFAN I	1.7 U	1.7 U	1.7 U	1.8 U
ENDOSULFAN II	0.16 J	0.31 J	3.3 U	3.6 U
ENDOSULFAN SULFATE	3.3 U	3.3 U	3.3 U	3.6 U
ENDRIN	0.12 J	3.3 U	0.26 J	2.7 J
ENDRIN ALDEHYDE	0.53 J	3.3 U	0.2 J	4.3 U
ENDRIN KETONE	3.3 U	3.3 U	3.3 U	3.6 U
GAMMA-BHC (LINDANE)	1.7 U	0.08 J	0.03 J	2.2

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	RM-SD-GM02-01	RM-SD-GM07-04	RM-SD-GM08-04	RM-SD-RF01-04
Sample Location	GM02	GM07	GM08	RF01
Date Sampled	8/16/94	8/16/95	8/16/95	8/7/95
QC Type	None	None	None	None
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Filtering	NA	NA	NA	NA
GAMMA-CHLORDANE	1.7 U	1.7 U	0.15 J	6.3
HEPTACHLOR	1.7 U	1.7 U	1.7 U	0.28 J
HEPTACHLOR EPOXIDE	1.7 U	1.7 U	1.7 U	1.9
METHOXYCHLOR	17 U	17 U	17 U	3.6 U
TOXAPHENE	170 U	170 U	170 U	180 U
Dioxin (UG/KG)				
1,2,3,4,6,7,8-HPCDD	0.00728 J	0.00849 J	0.07812 J	0.34857
1,2,3,4,6,7,8-HPCDF	0.00409 J	0.00263 J	0.0831 J	0.10316
1,2,3,4,7,8,9-HPCDF	0.00034 U	0.00218 UJ	0.01215 UJ	0.01776 U
1,2,3,4,7,8-HXCDD	0.00022 J	0.0006 UJ	0.00984 UJ	0.00622 J
1,2,3,4,7,8-HXCDF	0.00066 UJ	0.00078 J	0.00973 UJ	0.00751 UJ
1,2,3,6,7,8-HXCDD	0.00033 J	0.00075 UJ	0.00968 UJ	0.01788
1,2,3,6,7,8-HXCDF	0.00055 J	0.00081 UJ	0.00599 UJ	0.0068 U
1,2,3,7,8,9-HXCDD	0.00033 J	0.00072 UJ	0.0118 UJ	0.01678 UJ
1,2,3,7,8,9-HXCDF	0.00031 J	0.00103 UJ	0.00755 J	0.00644 U
1,2,3,7,8-PECDD	0.00042 U	0.00102 UJ	0.00309 UJ	0.00605 U
1,2,3,7,8-PECDF	0.00038 UJ	0.00186 UJ	0.00579 UJ	0.00647 U
2,3,4,6,7,8-HXCDF	0.00048 U	0.0014 UJ	0.00533 UJ	0.0108 U
2,3,4,7,8-PECDF	0.0002 U	0.00171 UJ	0.00567 UJ	0.00629 U
2,3,7,8-TCDD	0.00013 U	0.00034 UJ	0.00128 UJ	0.00123 U
2,3,7,8-TCDF	0.00053 UJ	0.00097 J	0.00994 J	0.00557 J
OCDD	0.16671 J	0.25361 J	2.33964 J	3.64659
OCDF	0.00672 J	0.00977 J	0.2442 J	0.20281 J
TOTAL HPCDD	0.01589 J	0.02729 J	0.23146 J	0.76351 J
TOTAL HPCDF	0.01013 J	0.01584 J	0.25083 J	0.64704 J
TOTAL HXCDD	0.00112 J	0.00864 J	0.05964 J	0.0322 J
TOTAL HXCDF	0.00779 J	0.00637 J	0.38511 J	0.65412 J
TOTAL PECDD	0.00042 UJ	0.00102 UJ	0.00309 UJ	0.00605 UJ
TOTAL PECDF	0.00616 J	0.00904 J	0.87881 J	0.71294 J
TOTAL TCDD	0.00013 UJ	0.00048 J	0.00508 J	0.00546 J
TOTAL TCDF	0.00399 UJ	0.01123 J	0.72167 J	0.28113 J
TOXICITY EQUIVALENCY FACTOR	0.000481 J	0.00055 J	0.00573 J	0.01133 J
Metals (MG/KG)				
ALUMINUM	2950	18400	19000	5590
ANTIMONY	1.2 U	6.3 UJ	6.8 UJ	5.1 UJ
ARSENIC	1.5 U	14.2	12.5	2.2
BARIUM	4.1 U	51.2 J	50.1 J	28.4
BERYLLIUM	0.25 U	0.8	0.58 J	0.31
CADMIUM	0.5 U	0.65 UJ	0.64 UJ	0.66 U
CALCIUM	696	2580 J	2650 J	2200 J
CHROMIUM	7.8 J	107 J	89.2 J	39
COBALT	1.6	12.5	14.9	5.7
COPPER	11 J	336	194	102 J
IRON	4940	33900	35300	14100
LEAD	8.1	91.8 J	46.4 J	141
MAGNESIUM	1210	9920	10400	3460

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
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ANALYTICAL RESULTS
 DRAFT REMEDIAL INVESTIGATION REPORT
 RAYMARK-FERRY CREEK - OU3
 STRATFORD, CONNECTICUT

Sample Number	RM-SD-GM02-01	RM-SD-GM07-04	RM-SD-GM08-04	RM-SD-RF01-04
Sample Location	GM02	GM07	GM08	RF01
Date Sampled	8/16/94	8/16/95	8/16/95	8/7/95
QC Type	None	None	None	None
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Filtering	NA	NA	NA	NA
MANGANESE	43.5	354	321	106
MERCURY	0.12 U	1.2	1.1	0.13
NICKEL	4.4	28.8 J	33.9 J	14.7
POTASSIUM	420 U	4920	5020	1130
SELENIUM	0.99 UJ	2.2 UJ	3.4 U	0.94 U
SILVER	0.74 UJ	1.2 U	1.3 U	1 U
SODIUM	2070	14400	15000	1790
THALLIUM	1.7 U	2.4 U	2.6 U	1.9 U
VANADIUM	8.3 J	55	56.2	24.7 J
ZINC	24.1 J	163	192	158

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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	AHP008	BES002	BESB+300	BESD+300	BS-D+00	BS-G7	BSC+400	CC5	CF-A+00	CF-B+480
Sample Location	AHP008	BES002	BESB+300	BESD+300	BS-D+00	BS-G7	BSC+400	CC5	CF-A+00	CF-B+480
Date Sampled										
QC Type	None	None	None	None	Field Dup. (3002)	None	Field Dup. (3003)	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)										
4,4'-DDD	3.4 UJ	21 UJ	3.5 UJ	3.5 UJ	6.8 U	220 J	2.3	3.5 UJ	21 U	3.8 U
4,4'-DDE	110 J	11 J	14 J	19 J	NA	230	10	3.5 UJ	6.8 J	10
4,4'-DDT	49 J	R	12 J	16 J	R	200	7.5	3.5 UJ	R	9.1 J
ALDRIN	1.7 U	11 UJ	1.8 UJ	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	11 UJ	2 UJ
ALPHA-BHC	1.7 U	11 UJ	1.8 UJ	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	11 U	2 U
ALPHA-CHLORDANE	1.7 UJ	R	1.8 UJ	1.8 UJ	3	2.7 J	1.8 U	1.8 UJ	940 *	2 U
AROCLOR, TOTAL	156	1215	151.5	228	386	191	192	175.5 U	945	193.5
AROCLOR-1016	34 U	420 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1221	68 U	210 UJ	71 UJ	72 UJ	140 U	68 U	70 U	71 UJ	420 U	77 U
AROCLOR-1232	34 U	210 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1242	34 U	210 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1248	34 U	210 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1254	34 U	210 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1260	34 U	210 UJ	35 UJ	35 UJ	68 U	34 U	34 U	35 UJ	210 U	38 U
AROCLOR-1262	R	270 J	R	87 J	78	38 J	38	35 UJ	R	22 J
AROCLOR-1268	20 J	210 UJ	11 J	R	68 U	34 U	34 U	35 UJ	210 U	38 U
BETA-BHC	1.7 U	11 UJ	1.8 UJ	0.56 J	3.5 U	1.7 U	1.8 U	R	11 U	2 U
DELTA-BHC	1.7 UJ	1.7 J	1.8 UJ	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	11 U	2 U
DIELDRIN	3.4 UJ	21 UJ	3.5 UJ	3.5 UJ	NA	3.4 UJ	3.4 U	3.5 UJ	4.4 J	3.8 UJ
ENDOSULFAN I	1.7 U	11 UJ	1.8 UJ	1.8 UJ	3.5 U	R	1.8 U	1.8 UJ	11 U	2 U
ENDOSULFAN II	3.4 U	21 UJ	0.75 J	0.86 J	NA	3.4 U	3.4 U	3.5 UJ	21 U	0.78 J
ENDOSULFAN SULFATE	3.4 U	12 J	3.5 UJ	3.5 UJ	6.8 U	3.4 U	3.4 U	3.5 UJ	21 U	3.8 U
ENDRIN	3.4 U	13 J	3.5 UJ	3.5 UJ	3.5 U	3.4 U	3.4 U	3.5 UJ	13 J	3.8 UJ
ENDRIN ALDEHYDE	3.4 U	11 UJ	3.5 UJ	3.5 UJ	NA	3.4 U	3.4 U	3.5 UJ	21 U	3.8 U
ENDRIN KETONE	3.4 UJ	21 UJ	3.5 UJ	3.5 UJ	7.5	3.4 U	3.4 U	3.5 UJ	21 U	0.86 J
GAMMA-BHC (LINDANE)	1.7 U	11 UJ	1.8 UJ	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	11 UJ	2 UJ
GAMMA-CHLORDANE	1.7 UJ	1100 UJ	1.8 UJ	1.8 UJ	NA	R	1.8 U	1.8 UJ	R	2 U
HEPTACHLOR	1.7 UJ	R	0.36 J	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	5.2 J	0.24 J
HEPTACHLOR EPOXIDE	1.7 U	11 UJ	1.8 UJ	1.8 UJ	3.5 U	1.7 U	1.8 U	1.8 UJ	R	2 U
METHOXYCHLOR	R	16 J	2.6 J	3 J	3.5 U	1.7 U	12	18 J	110 U	2.1 J
TOXAPHENE	170 U	210 UJ	180 UJ	180 UJ	350 U	170 U	180 U	180 UJ	1100 U	200 U

ANALYTICAL RESULTS
 DRAFT REMEDIAL INVESTIGATION REPORT
 RAYMARK-FERRY CREEK - OU3
 STRATFORD, CONNECTICUT

Sample Number	AHP008	BES002	BESB+300	BESD+300	BS-D+00	BS-G7	BSC+400	CC5	CF-A+00	CF-B+480
Sample Location	AHP008	BES002	BESB+300	BESD+300	BS-D+00	BS-G7	BSC+400	CC5	CF-A+00	CF-B+480
Date Sampled										
QC Type	None	None	None	None	Field Dup. (3002)	None	Field Dup. (3003)	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (MG/KG)										
ALUMINUM	9900 J	11300 J	9480 J	8910 J	11100 J	9750	11900	926 J	NA	17900 J
ANTIMONY	5.6 UJ	6.9 UJ	6 UJ	5.9 UJ	6.6 UJ	6.6 UJ	6.8 U	5.6 UJ	NA	6.3 UJ
ARSENIC	15.3	6.1	4	4	5.4 J	1.4 J	5.3	3.8 J	NA	3.7 J
BARIUM	34.7	38.5 J	32.4 J	33.1 J	40.1	44.8	38.6	5.3	NA	63.7 J
BERYLLIUM	0.76	0.43 U	0.53 J	0.42 J	0.71	0.46	0.64	0.35 U	NA	1.4
CADMIUM	0.63 J	0.94 U	0.42 UJ	0.5 UJ	0.64 U	0.64 U	0.64 U	0.39 UJ	NA	0.44 U
CALCIUM	897 J	1130 J	894 J	536 J	2720	1450	1400	309 J	NA	28100 J
CHROMIUM	23.4	15.6	10.7	8.8	11.8	7.7 J	13.1	9	NA	20.4
COBALT	6.5	4.2	5.3	2.5 J	5.5	4	7	2 U	NA	9.4
COPPER	63.7 J	39.7	15.1	16.3	21	12.4	24.9	9.7 J	NA	34.3 J
IRON	12700 J	9150 J	11100 J	9050 J	16300	8520	16400	3110 J	NA	19500 J
LEAD	132	158	38.2	49.5	27.5	17*J	34.4	5.4 J	NA	67.3 J
MAGNESIUM	2780 J	1710 J	2030 J	1000 J	2390 J	2330	3160	368 J	NA	10400 J
MANGANESE	234 J	126 J	196 J	146 J	247 J	264 J	281	35.8 J	NA	438 J
MERCURY	0.26	0.14 J	0.08 J	0.12 J	0.11 J	0.1 UJ	0.12	0.08 UJ	NA	0.13 J
NICKEL	12 J	17.1 U	10.9 U	8.8 U	13.8	7.6 J	13.6	3 U	NA	15.2
POTASSIUM	884 U	413 UJ	285 UJ	89.3 UJ	1120	856	1290	53.7 UJ	NA	983 UJ
SELENIUM	0.36 J	0.48 J	0.33 UJ	0.34 UJ	0.69 UJ	0.4 UJ	0.4	0.33 UJ	NA	3.6 UJ
SILVER	0.31 U	0.39 U	0.33 U	0.33 U	R	0.72 UJ	0.72 U	0.31 U	NA	0.35 U
SODIUM	111	187	89.6	64.2	338 UJ	323 U	284 U	69.2	NA	109 U
THALLIUM	0.4 UJ	0.19 UJ	0.16 UJ	0.17 UJ	0.47 J	0.23 UJ	0.5	0.17 UJ	NA	0.45 U
VANADIUM	36.9	37.1	23.2	23.3	23.4	20.9	29.9	3.1 UJ	NA	46.2
ZINC	67.9 J	173 J	65 J	40.5 J	136 UJ	72.7	91.7	9.8 J	NA	114 J

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OJ3
STRATFORD, CONNECTICUT

Sample Number	CF-G8	CS-B+00	CS-D+300	EWS-G5A	EWS-G5B	EWS-G7	EX-91	FLS-A+250	FLS-G1	FLS-G2	FS-A+150
Sample Location	CF-G8	CS-B+00	CS-D+300	EWS-G5	EWS-G5	EWS-G7	EX-91	FLS-A+250	FLS-G1	FLS-G2	FS-A+150
Date Sampled											
QC Type	None	None	None			None	None	None	None	Field Dup. (3004)	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)											
4,4'-DDD	8.2 U	3.6 U	3.7 U	18 U	18 U	3.4 U	4.1 U	6.9 U	3.4 U	3.4 U	18
4,4'-DDE	12 J	2.8 J	5.8	18 U	18 U	3.4 U	5.9 J	4.9 J	3.4 U	3.4 U	18
4,4'-DDT	3.5 J	7 J	12 J	18 U	18 U	2.6 J	7.8 J	6.9 U	3.4 U	2	18
ALDRIN	2.9 J	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
ALPHA-BHC	4.2 UJ	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
ALPHA-CHLORDANE	14 J	1.8 UJ	1.2 J	21	20	1.8 U	2.1 U	1.9 J	1.8 U	2.6	9.3
AROCLOR, TOTAL	372	180.5 U	269	900 U	900 U	170.5 U	206 U	346 U	171 U	171 U	905
AROCLOR-1016	82 U	36 U	37 U	180 U	180 U	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1221	170 U	73 U	74 U	360 U	360 U	69 U	84 U	140 U	70 U	70 U	370
AROCLOR-1232	82 U	36 U	37 U	180 U	180 U	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1242	82 U	36 U	37 U	180 U	180 U	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1248	82 U	36 U	37 U	180 U	180 U	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1254	82 U	36 U	37 U	180 U	180 UJ	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1260	82 U	36 U	37 U	180 U	180 UJ	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1262	R	36 U	98 J	180 U	180 UJ	34 U	41 U	69 U	34 U	34 U	180
AROCLOR-1268	82 U	36 U	23 J	180 U	180 UJ	34 U	41 U	69 U	34 U	34 U	180
BETA-BHC	4.2 UJ	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
DELTA-BHC	5.7 J	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 UJ	1.8 U	1.8 U	9.3
DIELDRIN	8.2 UJ	3.6 U	3.7 U	74	74	3.4 U	4.1 U	5 J	3.4 U	3.4 U	18
ENDOSULFAN I	1.1 J	1.8 UJ	1.9 U	22	22	1.8 U	2.1 U	3.5 UJ	1.8 U	1.8 U	9.3
ENDOSULFAN II	R	3.6 U	3.7 U	18 U	18 U	3.4 U	2.6 J	6.9 U	3.4 U	3.4 U	18
ENDOSULFAN SULFATE	8.2 U	3.6 U	2 J	18 U	18 U	3.4 U	4.1 U	6.9 U	3.4 U	3.4 U	18
ENDRIN	4 J	3.6 U	3.7 U	18 U	18 U	3.4 U	4.1 U	6.9 U	3.4 U	3.4 U	18
ENDRIN ALDEHYDE	5.9 J	3.6 U	3.7 U	18 U	18 U	3.4 U	4.1 U	6.9 U	3.4 U	3.4 U	18
ENDRIN KETONE	14 J	3.6 U	3.7 U	18 U	18 U	3.4 U	4.1 U	6.9 U	3.4 U	3.4 U	18
GAMMA-BHC (LINDANE)	4.2 UJ	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
GAMMA-CHLORDANE	R	1.8 UJ	3.5 J	R	13 J	1.8 U	2.1 U	2.6 J	1.8 U	5.6	9.3
HEPTACHLOR	4.2 UJ	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
HEPTACHLOR EPOXIDE	4.2 UJ	1.8 U	1.9 U	9 U	9.2 U	1.8 U	2.1 U	3.5 U	1.8 U	1.8 U	9.3
METHOXYCHLOR	13 J	18 U	19 U	90 U	92 U	18 U	21 U	35 U	18 U	18 U	93
TOXAPHENE	420 U	180 U	190 U	900 U	920 U	180 U	210 U	350 U	180 U	180 U	930

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	CF-G8	CS-B+00	CS-D+300	EWS-G5A	EWS-G5B	EWS-G7	EX-91	FLS-A+250	FLS-G1	FLS-G2	FS-A+150
Sample Location	CF-G8	CS-B+00	CS-D+300	EWS-G5	EWS-G5	EWS-G7	EX-91	FLS-A+250	FLS-G1	FLS-G2	FS-A+150
Date Sampled											
QC Type	None	None	None			None	None	None	None	Field Dup. (3004)	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (MG/KG)											
ALUMINUM	NA	15300	16600	16100 J	16200 J	3930 J	15800		NA	NA	NA
ANTIMONY	NA	R	6.7 J	6.1 UJ	5.6 UJ	5.5 UJ	5.7 UJ		NA	NA	NA
ARSENIC	NA	7.5	16.7	5.7 J	4.7 J	1.5 J	5.8		NA	NA	NA
BARIUM	NA	55	54.8	46.4	45	22.3	329 J		NA	NA	NA
BERYLLIUM	NA	0.65	0.77	1.2	1.3	0.35 U	0.7		NA	NA	NA
CADMIUM	NA	0.65 U	0.66 U	0.42 UJ	0.55 J	0.43 J	1.4 J		NA	NA	NA
CALCIUM	NA	2400 J	821 J	1400 J	1410 J	1210 J	5170 J		NA	NA	NA
CHROMIUM	NA	18	24.4	16.8	17.1	6.7	19.1		NA	NA	NA
COBALT	NA	6.9	6.3	8.7	10.2	4.7	7.6 UJ		NA	NA	NA
COPPER	NA	23.6 J	56.6 J	23.5 J	21.5 J	9.4 J	123 J		NA	NA	NA
IRON	NA	15600	18000	20200 J	20000 J	8300 J	18500		NA	NA	NA
LEAD	NA	64.3	224	51.8 J	R	13.5 J	344 J		NA	NA	NA
MAGNESIUM	NA	3390	3090	3610 J	3620 J	1790 J	3350		NA	NA	NA
MANGANESE	NA	322	233	307 J	329 J	223 J	613 J		NA	NA	NA
MERCURY	NA	0.25	0.14	0.11 J	0.12 J	0.08 UJ	0.14 J		NA	NA	NA
NICKEL	NA	12.9 J	17.2 J	14.3	12.6	7.3	14.9 J		NA	NA	NA
POTASSIUM	NA	1420	746	1270	1270	634 U	1680		NA	NA	NA
SELENIUM	NA	0.86 U	1.2	0.33 UJ	0.31 UJ	0.31 UJ	1 U		NA	NA	NA
SILVER	NA	1.5 UJ	2.1 UJ	0.34 U	0.31 U	0.31 U	1.9 UJ		NA	NA	NA
SODIUM	NA	162 UJ	153 UJ	221	R	96	109 UJ		NA	NA	NA
THALLIUM	NA	1.5 U	1.6 U	0.16 UJ	0.16 UJ	0.15 UJ	1.7 U		NA	NA	NA
VANADIUM	NA	30.1	55.4	36.2	35.4	14.4	39.1		NA	NA	NA
ZINC	NA	65.8 J	111 J	66.7 J	62.6 J	245 J	553 J		NA	NA	NA

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	FS-AH50	GC-94	GLC004	HBN-94	HBN-G4	HP-C+500	HP-GR7	HP-GR9	JA-C+400	JA-C+900	LBB012	
Sample Location	FS-AH50	GC-94	GLC004	HBN-94	HBN-G4	HP-C+500	HP-GR7	HP-GR9	JA-C+400	JA-C+900	LBB012	
Date Sampled												
QC Type	None	None	None	None	None	None	None	None	None	None	None	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pesticides/PCBs (UG/KG)												
4,4'-DDD	U	NA	3.5 UJ	NA	NA	3.3 U	3.6 U	17 UJ	19 U	3.7 UJ	NA	3.7 UJ
4,4'-DDE	U	NA	5	NA	NA	3.3 U	9.3	9.4 J	18 J	2.2 J	NA	26 J
4,4'-DDT	U	NA	11	NA	NA	3.3 U	12	14 J	29 J	4.5 J	NA	38 J
ALDRIN	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
ALPHA-BHC	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
ALPHA-CHLORDANE	U	NA	4.2	NA	NA	3.3 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
AROCLOR, TOTAL	U	NA	175.5 U	NA	NA	234 U	181 U	855 U	955 U	166.5	NA	167.5
AROCLOR-1016	U	NA	35 U	NA	NA	170 U	36 U	170 UJ	190 U	37 UJ	NA	37 UJ
AROCLOR-1221	U	NA	71 U	NA	NA	33 U	74 U	350 UJ	390 U	74 UJ	NA	76 UJ
AROCLOR-1232	U	NA	35 U	NA	NA	67 U	36 U	170 UJ	190 U	37 UJ	NA	37 UJ
AROCLOR-1242	U	NA	35 U	NA	NA	33 U	36 U	170 UJ	190 U	37 UJ	NA	37 UJ
AROCLOR-1248	U	NA	35 U	NA	NA	33 U	36 U	170 UJ	190 U	37 UJ	NA	37 UJ
AROCLOR-1254	U	NA	35 U	NA	NA	33 U	36 U	170 UJ	190 UJ	37 UJ	NA	37 UJ
AROCLOR-1260	U	NA	35 U	NA	NA	33 U	36 U	170 UJ	190 UJ	37 UJ	NA	37 UJ
AROCLOR-1262	U	NA	35 UJ	NA	NA	33 U	36 U	170 UJ	190 UJ	R	NA	R
AROCLOR-1268	U	NA	35 U	NA	NA	33 U	36 U	170 UJ	190 UJ	37 UJ	NA	37 UJ
BETA-BHC	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
DELTA-BHC	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
DIELDRIN	U	NA	3.5 UJ	NA	NA	3.3 U	3.6 U	17 UJ	R	3.7 UJ	NA	3.7 UJ
ENDOSULFAN I	U	NA	1.8 U	NA	NA	R	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
ENDOSULFAN II	U	NA	3.5 U	NA	NA	3.3 U	3.6 U	5.2 J	19 U	2 J	NA	3.7 UJ
ENDOSULFAN SULFATE	U	NA	3.5 U	NA	NA	3.3 U	3.6 U	17 UJ	19 U	3.7 UJ	NA	3.7 UJ
ENDRIN	U	NA	3.5 U	NA	NA	4.5 J	3.6 U	17 UJ	19 U	3.7 UJ	NA	3.7 UJ
ENDRIN ALDEHYDE	U	NA	3.5 U	NA	NA	3.3 U	3.6 U	3.7 J	19 U	3.7 UJ	NA	3.7 UJ
ENDRIN KETONE	U	NA	3.5 U	NA	NA	1.7 U	3.6 U	R	19 U	3.7 UJ	NA	3.7 UJ
GAMMA-BHC (LINDANE)	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
GAMMA-CHLORDANE	U	NA	2.1 J	NA	NA	9.2 J	1.9 U	8.8 UJ	9.8 U	1.9 UJ	NA	1.9 UJ
HEPTACHLOR	U	NA	1.8 U	NA	NA	1.7 U	1.9 U	R	9.8 U	1.9 UJ	NA	1.9 UJ
HEPTACHLOR EPOXIDE	U	NA	1.6 J	NA	NA	1.7 U	1.9 U	8.8 UJ	R	1.9 UJ	NA	1.9 UJ
METHOXYCHLOR	U	NA	18 U	NA	NA	4.1 J	19 U	R	98 U	19 UJ	NA	22 J
TOXAPHENE	U	NA	180 U	NA	NA	5.7 J	190 U	880 UJ	980 U	190 UJ	NA	190 UJ

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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	FS-AH50	GC-94	GLC004	HBN-94	HBN-G4	HP-C+500	HP-GR7	HP-GR9	JA-C+400	JA-C+900	LBB012	
Sample Location	FS-AH50	GC-94	GLC004	HBN-94	HBN-G4	HP-C+500	HP-GR7	HP-GR9	JA-C+400	JA-C+900	LBB012	
Date Sampled												
QC Type	None	None	None	None	None	None	None	None	None	None	None	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals (MG/KG)												
ALUMINUM	NA	16400 J	NA	16700	14000	NA	10400 J	11400 J	15400 J	NA	11300	NA
ANTIMONY	NA	6.1 UJ	NA	9.3 U	8.3 UJ	NA	6.1 UJ	5.5 UJ	6.2 UJ	NA	9.1 UJ	NA
ARSENIC	NA	4.5	NA	9	8.6	NA	5.4	6.9	11	NA	3.6	NA
BARIUM	NA	172 J	NA	48.4	55 J	NA	54 J	53.6 J	126 J	NA	93.7 J	NA
BERYLLIUM	NA	1.1	NA	1.2	0.64	NA	0.58 J	0.65 J	0.83	NA	0.34 J	NA
CADMIUM	NA	0.48 UJ	NA	0.72 U	0.64 U	NA	0.42 UJ	0.67 UJ	1.4 U	NA	1.1 J	NA
CALCIUM	NA	161 J	NA	1110	1310 J	NA	1210 J	1470 J	1560 J	NA	1160 J	NA
CHROMIUM	NA	35.2	NA	17.5	15	NA	14.9	15.7	23.9	NA	14.5	NA
COBALT	NA	7.5	NA	8.6	6.9 UJ	NA	8.8	6.7	7.7	NA	2.8 UJ	NA
COPPER	NA	54	NA	49.2	23.9 J	NA	17.1	24.7	44	NA	45.3 J	NA
IRON	NA	19400 J	NA	17800	17400	NA	16100 J	16600 J	17800 J	NA	11100	NA
LEAD	NA	193	NA	97	40.3 J	NA	28.1	64.3	300	NA	286 J	NA
MAGNESIUM	NA	3390 J	NA	3250	3610	NA	3620 J	2590 J	2990 J	NA	1730	NA
MANGANESE	NA	262 J	NA	247	263 J	NA	338 J	316 J	341 J	NA	126 J	NA
MERCURY	NA	0.08 J	NA	0.12 U	0.12 J	NA	0.08 UJ	0.21 J	0.14 J	NA	0.18 J	NA
NICKEL	NA	17.9 U	NA	17	11.5 J	NA	15.2 U	13.4 U	18.1 U	NA	10.1 J	NA
POTASSIUM	NA	894 UJ	NA	1330	1500	NA	1710	984 J	731 UJ	NA	517	NA
SELENIUM	NA	0.33 UJ	NA	0.72 UJ	0.85 U	NA	0.34 UJ	0.31 UJ	0.35 UJ	NA	1.3 J	NA
SILVER	NA	0.34 U	NA	3.3 J	1.5 UJ	NA	0.34 U	0.31 U	0.34 U	NA	1.9 UJ	NA
SODIUM	NA	116	NA	112 U	65.4 UJ	NA	116	246	106	NA	50 UJ	NA
THALLIUM	NA	0.16 U	NA	1.2 U	1.5 U	NA	0.17 U	0.15 UJ	0.18 U	NA	1.6 U	NA
VANADIUM	NA	46.7	NA	42.5	32.8	NA	31.8	33.4	48.4	NA	29.7	NA
ZINC	NA	229 J	NA	80.8	76 J	NA	45.4 J	109 J	235 J	NA	254 J	NA

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ANALYTICAL RESULTS
 DRAFT REMEDIAL INVESTIGATION REPORT
 RAYMARK-FERRY CREEK - OJ3
 STRATFORD, CONNECTICUT

Sample Number	LBP005	LBP012	LBP019	LBP029	LBP039	LBPAA+400	LBPC+200	LBDP+300	LC-92	LOX-63	LP-61
Sample Location	LBP005	LBP012	LBP019	LBP029	LBP039	LBPAA+400	LBPC+200	LBDP+300	LC-92	LOX-63	LP-61
Date Sampled											
QC Type	None	None	None	None	None	None	None	Field Dup. (3005)	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)											
4,4'-DDD	3.7 UJ	NA	4 UJ	2.4 J	3.5 UJ	R	R	2.05	3.5 U	3.4 UJ	NA
4,4'-DDE	7.7 J	NA	R	3.6 UJ	3.9 J	61 J	72 J	NA	3.5 U	3.4 UJ	NA
4,4'-DDT	5.4 J	NA	4 UJ	3.2 J	6.6 J	120 J	62 J	2	3.5 U	3.4 U	NA
ALDRIN	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 U	2.1 U	1.8 U	1.7 U	NA
ALPHA-BHC	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 U	2.1 U	1.8 U	1.7 U	NA
ALPHA-CHLORDANE	R	NA	4.8 UJ	9.6 J	1.8 UJ	21 J	R	4	1.8 U	1.7 U	NA
AROCLOR, TOTAL	172.5	NA	200.5 U	162.5	176 U	305	183	205	175.5 U	170 U	NA
AROCLOR-1016	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1221	75 U	NA	81 UJ	73 UJ	72 UJ	78 UJ	75 U	83 U	71 U	68 U	NA
AROCLOR-1232	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1242	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1248	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1254	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1260	37 U	NA	40 UJ	36 UJ	35 UJ	38 UJ	37 U	41 U	35 U	34 U	NA
AROCLOR-1262	R	NA	40 UJ	R	35 UJ	110 J	16 J	20	35 UJ	34 U	NA
AROCLOR-1268	24 J	NA	40 UJ	36 UJ	35 UJ	42 J	37 U	41 U	35 U	34 U	NA
BETA-BHC	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 U	2.1 U	1.8 U	1.7 U	NA
DELTA-BHC	R	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 UJ	1.05	1.8 U	1.7 U	NA
DIELDRIN	R	NA	R	3.6 UJ	3.5 UJ	3.8 UJ	R	R	3.5 U	3.4 U	NA
ENDOSULFAN I	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2.3 J	1.9 U	NA	1.8 U	1.7 U	NA
ENDOSULFAN II	3.7 U	NA	4 UJ	3.6 UJ	3.5 UJ	3.8 UJ	3.7 U	NA	3.5 U	3.4 U	NA
ENDOSULFAN SULFATE	3.7 U	NA	4 UJ	3.6 UJ	3.5 UJ	3.8 UJ	3.7 U	4.1 U	3.5 U	3.4 U	NA
ENDRIN	3.7 U	NA	4 UJ	R	3.5 UJ	3.8 UJ	3.7 U	4.1 U	3.5 U	3.4 U	NA
ENDRIN ALDEHYDE	3.7 U	NA	4 UJ	3.6 UJ	3.5 UJ	3.8 UJ	3.7 U	NA	3.5 U	3.4 U	NA
ENDRIN KETONE	3.7 UJ	NA	R	R	3.5 UJ	3.8 UJ	3.7 UJ	3.6	3.5 U	3.4 U	NA
GAMMA-BHC (LINDANE)	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 U	2.1 U	1.8 U	1.7 U	NA
GAMMA-CHLORDANE	R	NA	R	R	1.8 UJ	R	1.9 UJ	2.1 U	1.8 U	1.7 U	NA
HEPTACHLOR	R	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	R	R	1.8 U	1.7 U	NA
HEPTACHLOR EPOXIDE	1.9 U	NA	2 UJ	1.8 UJ	1.8 UJ	2 UJ	1.9 U	2.1 U	1.8 U	1.7 UJ	NA
METHOXYCHLOR	5 J	NA	3.9 J	18 UJ	18 UJ	20 UJ	5.8 J	NA	18 U	17 U	NA
TOXAPHENE	190 U	NA	200 UJ	180 UJ	180 UJ	200 UJ	190 U	210 U	180 U	170 U	NA

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OJ3
STRATFORD, CONNECTICUT

Sample Number	LBP005	LBP012	LBP019	LBP029	LBP039	LBPAA+400	LBPC+200	LBDP+300	LC-92	LOX-63	LP-61
Sample Location	LBP005	LBP012	LBP019	LBP029	LBP039	LBPAA+400	LBPC+200	LBDP+300	LC-92	LOX-63	LP-61
Date Sampled											
QC Type	None	None	None	None	None	None	None	Field Dup. (3005)	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (MG/KG)											
ALUMINUM	15000 J	12200 J	9520 J	3740 J	15100 J	13800 J	18500 J	21500	7130		NA 11100 J
ANTIMONY	6.3 UJ	6.3 UJ	6.7 UJ	5.7 UJ	6 UJ	6.1 UJ	6.3 UJ	6.7 U	6.5 UJ		NA 5.7 UJ
ARSENIC	8.9	7.5	7.7	1.1	8.5	10.3 J	4.3	8.3	3.8		NA 7.8
BARIUM	45.7	42.1	42.9	22	42.4	48.5 J	49.1	51.3	41.4 J		NA 30.2 J
BERYLLIUM	1.1	0.82 U	0.87 U	0.4 UJ	0.97 U	1.1	1.3	1.3	0.28 J		NA 0.69 J
CADMIUM	0.44 U	0.78 UJ	0.78 UJ	0.4 UJ	0.7 UJ	1.4	0.44 U	0.53	0.63 U		NA 0.44 UJ
CALCIUM	637 J	3830 J	1910 J	2010 J	781 J	938 J	731 J	751	1300 J		NA 703 J
CHROMIUM	15.7	14.8	15.3	10.2	16.2	20.2	16	20.1	10.9		NA 16.4
COBALT	6.9	7.2	7.7	2.6 J	6.9	7.6	7.2	9.4	5.7 UJ		NA 6.3
COPPER	26.9 J	42.8 J	31.5 J	18.3 J	22.9 J	30.1 J	22.7 J	17.6	11.9 UJ		NA 15.1
IRON	17300 J	16000 J	17300 J	8220 J	16700 J	17100 J	17700 J	21600	13100		NA 14800 J
LEAD	82.6	85.5 J	67.7 J	43.2 J	74 J	165 J	55.2	60	3.7 J		NA 47.3
MAGNESIUM	2860 J	3910 J	2710 J	1840 J	2720 J	2580 J	2990 J	3350	3310		NA 2830 J
MANGANESE	284 J	224 J	406 J	98.2 J	251 J	299 J	411 J	309	201 J		NA 239 J
MERCURY	0.12 J	0.08 U	0.09 U	0.08 J	0.08 J	0.14 J	0.12 J	0.17	0.11 U		NA 0.09 J
NICKEL	11.9 J	11.7	16.3	10.7	13.7	12.8	14.2 J	15.3	7.9 J		NA 13.7 U
POTASSIUM	834 UJ	388 UJ	594 UJ	529 J	610 J	691 UJ	740 UJ	884 U	2680		NA 732 UJ
SELENIUM	0.24 UJ	0.34 UJ	0.39 UJ	0.32 UJ	0.33 UJ	0.34 UJ	0.64 J	0.66	0.84 U		NA 0.31 UJ
SILVER	0.35 U	0.35 U	0.37 U	0.32 U	0.33 U	0.34 U	0.35 U	0.37 U	1.5 UJ		NA 0.32 U
SODIUM	105	129 U	126 U	118 U	95.9 U	71.8 U	104	99.3 U	65.6 UJ		NA 82.6
THALLIUM	0.43 UJ	0.17 U	0.19 UJ	0.16 U	0.17 UJ	0.43 U	0.42 UJ	0.48 U	1.5 U		NA 0.15 U
VANADIUM	36.8	28.6	29	15.3	38.1	41.5	39.7	52.3	19.7		NA 32.3
ZINC	66.7 J	604 J	76.7 J	42.6 J	55.4 J	450 J	52.3 J	58.9	29.4 J		NA 49.9 J

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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OUS
STRATFORD, CONNECTICUT

Sample Number	LP-A+50	LP-G1	LSSA+00	LSSB+365	LSSE+125
Sample Location	LP-A+50	LP-G1	LSSA+00	LSSB+365	LSSE+125
Date Sampled					
QC Type	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)					
4,4'-DDD	18 U	17 U	3.5 UJ	3.7 UJ	R
4,4'-DDE	18 U	74	3.5 UJ	R	110 J
4,4'-DDT	18 U	280	3.5 UJ	R	160 J
ALDRIN	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
ALPHA-BHC	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
ALPHA-CHLORDANE	8.5 U	8.9 U	1.8 UJ	3.5 J	R
AROCLOR, TOTAL	810 U	855 U	158.5	168.5	311.5
AROCLOR-1016	160 U	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1221	340 U	350 U	72 UJ	74 UJ	140 UJ
AROCLOR-1232	160 U	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1242	160 U	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1248	160 U	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1254	160 UJ	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1260	160 UJ	170 U	35 UJ	37 UJ	69 UJ
AROCLOR-1262	160 UJ	170 U	R	R	R
AROCLOR-1268	160 U	170 U	35 UJ	37 UJ	69 UJ
BETA-BHC	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
DELTA-BHC	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
DIELDRIN	16 U	17 U	3.5 UJ	6.9 J	R
ENDOSULFAN I	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
ENDOSULFAN II	16 U	17 U	3.5 UJ	1.8 J	6.9 UJ
ENDOSULFAN SULFATE	16 U	17 U	3.5 UJ	3.7 UJ	6.9 UJ
ENDRIN	16 U	17 U	3.5 UJ	3.7 UJ	6.9 UJ
ENDRIN ALDEHYDE	16 U	17 U	3.5 UJ	3.7 UJ	6.9 UJ
ENDRIN KETONE	16 U	17 U	3.5 UJ	1.8 J	9.5 J
GAMMA-BHC (LINDANE)	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
GAMMA-CHLORDANE	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
HEPTACHLOR	8.5 U	8.9 U	1.8 UJ	1.9 UJ	3.5 UJ
HEPTACHLOR EPOXIDE	8.5 U	8.9 U	1.8 UJ	2.3 J	3.5 UJ
METHOXYCHLOR	85 U	89 U	18 UJ	19 UJ	R
TOXAPHENE	850 U	890 U	180 UJ	190 UJ	350 UJ

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	LP-A+50	LP-G1	LSSA+00	LSSB+365	LSSE+125
Sample Location	LP-A+50	LP-G1	LSSA+00	LSSB+365	LSSE+125
Date Sampled					
QC Type	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA
Metals (MG/KG)					
ALUMINUM	13500 J	NA	16500	13400	17100
ANTIMONY	6 UJ	NA	R	R	R
ARSENIC	3.6 J	NA	8.3	5.4	10.1
BARIUM	64.3	NA	44.2 J	49.6	69.9 J
BERYLLIUM	0.7 J	NA	0.65	0.49	0.72
CADMIUM	0.41 UJ	NA	0.64 UJ	0.67 UJ	0.98 J
CALCIUM	545 J	NA	960 J	1780 J	1280 J
CHROMIUM	14.1	NA	31.1	21.6	28.6
COBALT	6.2	NA	11.7	6.4	12.4
COPPER	22.9 J	NA	32.6 J	25.9 J	60.8 J
IRON	14500 J	NA	24100	16200	21700
LEAD	84.2 J	NA	22.2 J	72.9	167
MAGNESIUM	2190 J	NA	5690	3630	5210
MANGANESE	262 J	NA	483 J	305 J	660 J
MERCURY	0.12 J	NA	0.11 U	0.11 U	0.22
NICKEL	11.4	NA	40.4 J	17 J	31.6 J
POTASSIUM	316 UJ	NA	1490	1070	1590
SELENIUM	0.34 UJ	NA	0.85 UJ	0.89 UJ	0.95 J
SILVER	0.33 U	NA	1.5 U	1.6 U	1.5 U
SODIUM	97.6	NA	R	150 UJ	R
THALLIUM	0.17 UJ	NA	1.5 UJ	1.6 U	1.5 UJ
VANADIUM	33.4	NA	39.1 J	31.8	54.2 J
ZINC	66.3 J	NA	109 J	79.5 J	203 J

U - Not detected; U.J. - Detection limit approximate; J - Quantitation approximate;
* - From dilution analysis; R - Rejected; NA - Not Analyzed

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OJ3
STRATFORD, CONNECTICUT

Sample Number	NEP-C+200	NEP-GR8	NEP-GRG	NS-B+200	NS-E+200	NS-F+00	NS-G+300	SB-925-D	SB-950-F	SB-970-L
Sample Location	NEP-C+200	NEP-GR8	NEP-GRG	NS-B+200	NS-E+200	NS-F+00	NS-G+300	SB-925-D	SB-950-F	SB-970-L
Date Sampled										
QC Type	None	None	None	None	None	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)										
4,4'-DDD	3.4 U	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	3.8 U
4,4'-DDE	2.5 J	NA	18 U	18 U	20 UJ	9	18 U	3.4 J	3.3 U	4.5 J
4,4'-DDT	3.4 U	NA	18 U	18 U	20 UJ	9.7 J	18 U	9.5	2.6 J	R
ALDRIN	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
ALPHA-BHC	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
ALPHA-CHLORDANE	3.4 U	NA	9.1 U	9.2 U	44 J	1.9 U	9 U	2 U	1.7 U	10.4
AROCLOR, TOTAL	244 U	NA	900 U	810	1005 U	163	810	190.5 U	166 U	241.5
AROCLOR-1016	180 U	NA	180 U	180 U	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1221	34 U	NA	360 U	360 U	410 UJ	74 U	360 U	77 U	68 U	73 U
AROCLOR-1232	70 U	NA	180 U	180 U	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1242	34 U	NA	180 U	180 U	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1248	34 U	NA	180 U	180 U	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1254	34 U	NA	180 U	180 UJ	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1260	34 U	NA	180 U	180 UJ	200 UJ	36 U	180 U	38 U	33 U	36 U
AROCLOR-1262	34 U	NA	180 U	R	200 UJ	R	R	38 U	33 UJ	79 J
AROCLOR-1268	34 U	NA	180 U	180 UJ	200 UJ	36 U	180 U	38 U	33 UJ	36 UJ
BETA-BHC	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
DELTA-BHC	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
DIELDRIN	2.8 J	NA	18 U	18 U	190 J	4.6 J	18 U	3.8 U	3.3 U	R
ENDOSULFAN I	1.8 U	NA	9.1 U	9.2 U	47 J	1.9 U	9 U	2 U	1.7 U	1.8 U
ENDOSULFAN II	3.4 U	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	3.6 U
ENDOSULFAN SULFATE	3.4 U	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	3.6 U
ENDRIN	3.4 U	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	3.6 U
ENDRIN ALDEHYDE	3.4 U	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	3.6 U
ENDRIN KETONE	9.3 J	NA	18 U	18 U	20 UJ	3.6 U	18 U	3.8 U	3.3 U	4.2 J
GAMMA-BHC (LINDANE)	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
GAMMA-CHLORDANE	1 J	NA	9.1 U	9.2 U	R	1.9 U	9 U	2 U	1.7 U	R
HEPTACHLOR	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
HEPTACHLOR EPOXIDE	1.8 U	NA	9.1 U	9.2 U	10 UJ	1.9 U	9 U	2 U	1.7 U	1.8 U
METHOXYCHLOR	4.8	NA	91 U	92 U	100 UJ	19 U	90 U	20 U	17 U	R
TOXAPHENE	1.4 J	NA	910 U	920 U	1000 UJ	190 U	900 U	200 U	170 U	180 U

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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	NEP-C+200	NEP-GR6	NEP-GRG	NS-B+200	NS-E+200	NS-F+00	NS-G+300	SB-925-D	SB-950-F	SB-970-L
Sample Location	NEP-C+200	NEP-GR6	NEP-GRG	NS-B+200	NS-E+200	NS-F+00	NS-G+300	SB-925-D	SB-950-F	SB-970-L
Date Sampled										
QC Type	None	None	None	None	None	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (MG/KG)										
ALUMINUM	13200 J	10200 J	NA	15000 J	17100 J	14600 J	16100 J	8810 J	2320 J	4190 J
ANTIMONY	5.8 UJ	5.7 UJ	NA	6.2 UJ	6.6 UJ	6 UJ	5.9 UJ	6.3 UJ	5.5 UJ	5.8 UJ
ARSENIC	3.5	2.9	NA	5.8 J	6 J	5.5 J	4.3 J	4.1 J	0.99 J	1.6 J
BARIUM	30.6 J	32.6 J	NA	60.4	47.8	49.1	67	30.5	8	24.4
BERYLLIUM	0.98	0.61 J	NA	1.1	1.1	1.1	0.95	0.52 J	0.35 U	0.37 U
CADMIUM	0.41 UJ	0.4 UJ	NA	0.73 J	0.46 UJ	0.42 UJ	0.55 J	0.44 UJ	0.39 UJ	0.41 UJ
CALCIUM	775 J	1020 J	NA	800 J	1150 J	600 J	1030 J	821 J	2600 J	1170 J
CHROMIUM	14.2	9.5	NA	19.4	18.5	16.1	15.4	12.4	4.9	7.5
COBALT	8	6.6	NA	8.5	9.6	8	8.7	6.9	2 U	3.1 J
COPPER	18.3	14.2	NA	35.8 J	20 J	33.4 J	24.3 J	14.6 J	15.3 J	13.3 J
IRON	18900 J	14100 J	NA	16500 J	18700 J	17500 J	18300 J	12600 J	3900 J	6140 J
LEAD	43	22.7	NA	129 J	53.8 J	79.1 J	69.3 J	13.6 J	13.2 UJ	27.4 U
MAGNESIUM	3200 J	2980 J	NA	3080 J	3240 J	3150 J	3620 J	3290 J	1170 J	1830 J
MANGANESE	304 J	182 J	NA	338 J	291 J	307 J	409 J	329 J	65.6 J	94.5 J
MERCURY	0.16 J	0.08 UJ	NA	0.17 J	0.13 J	0.13 J	0.13 J	0.09 U	0.07 U	0.08 U
NICKEL	16.9 U	9.8 U	NA	15.5	13.1	14.1	14.2	9.8	4.2 J	7.3
POTASSIUM	1300 J	1770	NA	760 J	845 U	633 U	1570	1000 J	273 UJ	345 UJ
SELENIUM	0.32 UJ	0.32 UJ	NA	0.35 UJ	0.37 UJ	0.34 UJ	0.33 UJ	0.34 UJ	0.32 UJ	0.3 UJ
SILVER	0.33 U	0.32 U	NA	0.34 U	0.37 U	0.33 U	0.33 U	0.35 UJ	0.31 UJ	0.33 UJ
SODIUM	72.4	88.3 U	NA	123	154	109	120	105 J	43.6 J	50.4 J
THALLIUM	0.16 U	0.16 U	NA	0.17 UJ	0.19 UJ	0.17 UJ	0.16 UJ	0.17 U	0.16 U	0.15 U
VANADIUM	36.7	24.2	NA	47.6	33.5	44.9	34.5	23.1	4.8 J	9.9 J
ZINC	50.9 J	34.8 J	NA	80.5 J	58.5 J	69.2 J	79.2 J	39.4 J	27.4 J	46.1 J

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ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	SB1+300	SB2+200	SBB1E+00	SBB1K+00	SBB1K+003	SBB1P+100	SBB1Q+00	SBI+300	SBP E+130	SBP+E+130
Sample Location	SB1+300	SB2+200	SBB1E+00	SBB1K+00	SBB1K+003	SBB1P+100	SBB1Q+00	SBI+300	SBP E+130	SBP+E+130
Date Sampled										
QC Type	None	None	None	None	None	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)										
4,4'-DDD	R	R	3.5 U	NA	3.4 U	3.5 U	17 UJ	NA	0.44 J	NA
4,4'-DDE	3.5 UJ	19 UJ	3.5 U	NA	3.4 U	3.9 J	17 UJ	NA	2.4 J	NA
4,4'-DDT	6.7 J	19 UJ	3.5 U	NA	3.4 U	10 J	17 UJ	NA	4.4 J	NA
ALDRIN	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
ALPHA-BHC	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
ALPHA-CHLORDANE	2.9 J	10 UJ	1.8 U	NA	1.8 U	3.5 U	8.9 UJ	NA	2 UJ	NA
AROCLOR, TOTAL	241.5	955 U	175 U	NA	171 U	195.5	855 U	NA	251	NA
AROCLOR-1016	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1221	72 UJ	390 UJ	70 U	NA	70 U	72 U	350 UJ	NA	79 UJ	NA
AROCLOR-1232	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1242	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1248	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1254	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1260	35 UJ	190 UJ	35 U	NA	34 U	35 U	170 UJ	NA	39 UJ	NA
AROCLOR-1262	83 J	190 UJ	35 UJ	NA	34 UJ	37 J	170 UJ	NA	75 J	NA
AROCLOR-1268	35 UJ	190 UJ	35 UJ	NA	34 UJ	35 UJ	170 UJ	NA	39 UJ	NA
BETA-BHC	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
DELTA-BHC	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
DIELDRIN	R	19 UJ	3.5 U	NA	3.4 U	R	17 UJ	NA	3.9 UJ	NA
ENDOSULFAN I	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
ENDOSULFAN II	3.5 UJ	19 UJ	3.5 U	NA	3.4 U	3.5 U	17 UJ	NA	2.4 J	NA
ENDOSULFAN SULFATE	3.5 UJ	19 UJ	3.5 U	NA	3.4 U	3.5 U	17 UJ	NA	3.9 UJ	NA
ENDRIN	3.5 UJ	19 UJ	3.5 U	NA	3.4 U	3.5 U	17 UJ	NA	3.9 UJ	NA
ENDRIN ALDEHYDE	3.5 UJ	19 UJ	3.5 U	NA	3.4 U	3.5 U	17 UJ	NA	3.9 UJ	NA
ENDRIN KETONE	R	R	2.1 J	NA	R	3.9 J	R	NA	1.3 J	NA
GAMMA-BHC (LINDANE)	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
GAMMA-CHLORDANE	R	R	1.8 U	NA	1.8 U	3.5 U	8.9 UJ	NA	2 UJ	NA
HEPTACHLOR	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	0.23 J	NA
HEPTACHLOR EPOXIDE	1.8 UJ	10 UJ	1.8 U	NA	1.8 U	1.8 U	8.9 UJ	NA	2 UJ	NA
METHOXYCHLOR	18 UJ	100 UJ	18 U	NA	18 U	R	89 UJ	NA	4.1 J	NA
TOXAPHENE	180 UJ	1000 UJ	180 U	NA	180 U	180 U	890 UJ	NA	200 UJ	NA

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	SB1+300	SB2+200	SBB1E+00	SBB1K+00	SBB1K+003	SBB1P+100	SBB1Q+00	SBI+300	SBP E+130	SBP+E+130
Sample Location	SB1+300	SB2+200	SBB1E+00	SBB1K+00	SBB1K+003	SBB1P+100	SBB1Q+00	SBI+300	SBP E+130	SBP+E+130
Date Sampled										
OC Type	None	None	None	None	None	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (MG/KG)										
ALUMINUM	NA	6640 J	2360 J	2500 J	NA	2550 J	2680 J	4380 J	NA	15000 J
ANTIMONY	NA	6.4 UJ	5.6 UJ	5.6 UJ	NA	5.7 UJ	6 UJ	5.6 UJ	NA	6.3 UJ
ARSENIC	NA	5.7 J	0.53 J	0.62 J	NA	0.87 J	0.78 J	1.8 J	NA	12.3
BARIUM	NA	23.2	8.8	16.4	NA	14	26.8	22.6	NA	54.2 J
BERYLLIUM	NA	0.51 J	0.35 U	0.35 U	NA	0.36 U	0.37 U	0.35 U	NA	1.1
CADMIUM	NA	0.44 UJ	0.39 UJ	0.39 UJ	NA	0.4 UJ	0.46 J	0.39 UJ	NA	1.2 U
CALCIUM	NA	1600 J	33100 J	3760 J	NA	797 J	2430 J	1040 J	NA	1500 J
CHROMIUM	NA	13.5	5.9	6.2	NA	5	6.8	14.9	NA	21.8
COBALT	NA	4.6	2 U	2.4 J	NA	2.1 U	2.2 U	3.1 J	NA	8.2
COPPER	NA	68.4 J	16.5 J	16.7 J	NA	11.2 J	13.1 J	39.3 J	NA	36.7
IRON	NA	14700 J	5560 J	4420 J	NA	3930 J	4580 J	7730 J	NA	28000 J
LEAD	NA	50.4	10.5 UJ	19.1 U	NA	47.7	65	21.7 U	NA	76.4 J
MAGNESIUM	NA	2340 J	1420 J	1390 J	NA	1240 J	1230 J	1710 J	NA	5410 J
MANGANESE	NA	152 J	73.1 J	61.8 J	NA	68.3 J	71.2 J	95.8 J	NA	253 J
MERCURY	NA	0.18	0.09 U	0.07 U	NA	0.09 U	0.09 U	0.07 J	NA	0.14 J
NICKEL	NA	17	8.3	5.4 J	NA	5 J	6.4	7.6	NA	14.5 UJ
POTASSIUM	NA	518 UJ	286 UJ	387 UJ	NA	263 UJ	324 UJ	396 UJ	NA	1790
SELENIUM	NA	0.37 UJ	0.3 UJ	0.32 UJ	NA	0.33 UJ	0.31 UJ	0.33 UJ	NA	0.37 UJ
SILVER	NA	0.35 UJ	0.31 UJ	0.31 UJ	NA	0.32 UJ	0.33 UJ	0.31 UJ	NA	0.35 U
SODIUM	NA	86.9 J	290	66.4 J	NA	31.4 J	38.1 J	76.9 J	NA	R
THALLIUM	NA	0.19 UJ	0.15 UJ	0.16 UJ	NA	0.17 U	0.16 U	0.16 U	NA	0.18 UJ
VANADIUM	NA	16.3 J	6.8 J	6.5 J	NA	6.2 J	6.7 J	10.4 J	NA	49.4
ZINC	NA	117 J	26.6 J	37 J	NA	50.7 J	68.6 J	61.4 J	NA	710 J

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ANALYTICAL RESULTS
 DRAFT REMEDIAL INVESTIGATION REPORT
 RAYMARK-FERRY CREEK - OJ3
 STRATFORD, CONNECTICUT

Sample Number	SBP005	SBPF+00	SH-97	SH-A+00	SH-D+695	SH-E+400	SH400	SMS-G3	SPB 005	THG005	THN-62	THN-G2
Sample Location	SBP005	SBPF+00	SH-97	SH-A+00	SH-D+695	SH-E+400	SH400	SMS-G3	SPB 005	THG005	THN-62	THN-G2
Date Sampled												
QC Type	None	None	None	None	None	None	None	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)												
4,4'-DDD	NA	3.4 UJ	3.6 UJ	4.4 UJ	4 UJ	3.4 UJ	NA	3.6 U	R	18 UJ	19 UJ	NA
4,4'-DDE	NA	3.4 UJ	3.6 UJ	R	4 UJ	3.4 UJ	NA	3.6 UJ	2.9 J	240 J	19 UJ	NA
4,4'-DDT	NA	1.4 J	3.6 UJ	R	4 UJ	3.2 J	NA	3.6 U	2.7 UJ	400 J	19 UJ	NA
ALDRIN	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
ALPHA-BHC	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
ALPHA-CHLORDANE	NA	1.8 UJ	1.8 UJ	1.3 J	2.1 UJ	1.8 UJ	NA	1.8 U	0.33 J	15 J	9.8 UJ	NA
AROCLOR, TOTAL	NA	303.5	162.5	198.5	201 U	154	170 U	180.5 U	167.5	905 U	955 U	NA
AROCLOR-1016	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1221	NA	69 UJ	73 UJ	89 UJ	82 UJ	70 UJ	68 U	73 U	76 UJ	370 UJ	390 UJ	NA
AROCLOR-1232	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1242	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1248	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1254	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1260	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
AROCLOR-1262	NA	150 J	R	R	40 UJ	R	34 U	36 U	R	180 UJ	190 UJ	NA
AROCLOR-1268	NA	34 UJ	36 UJ	44 UJ	40 UJ	34 UJ	34 U	36 U	37 UJ	180 UJ	190 UJ	NA
BETA-BHC	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
DELTA-BHC	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	0.34 J	1.3 J	9.8 UJ	NA
DIELDRIN	NA	3.4 UJ	5.9 J	4.4 UJ	4 UJ	3.4 UJ	NA	3.6 U	R	R	19 UJ	NA
ENDOSULFAN I	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
ENDOSULFAN II	NA	3.9 J	3.6 UJ	6 J	4 UJ	3.4 UJ	NA	3.6 U	1.4 J	18 UJ	19 UJ	NA
ENDOSULFAN SULFATE	NA	3.4 UJ	3.6 UJ	4.4 UJ	4 UJ	3.4 UJ	NA	3.6 U	3.7 UJ	18 UJ	19 UJ	NA
ENDRIN	NA	R	3.6 UJ	4.4 UJ	4 UJ	3.4 UJ	NA	3.6 U	3.7 UJ	18 UJ	19 UJ	NA
ENDRIN ALDEHYDE	NA	R	3.6 UJ	4.4 UJ	4 UJ	3.4 UJ	NA	3.6 U	3.7 UJ	18 UJ	19 UJ	NA
ENDRIN KETONE	NA	4.8 J	18 UJ	5.2 J	4 UJ	3.4 UJ	NA	3.6 U	0.81 J	18 UJ	19 UJ	NA
GAMMA-BHC (LINDANE)	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
GAMMA-CHLORDANE	NA	1.2 J	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	R	9.8 UJ	NA
HEPTACHLOR	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	1 J	9.8 UJ	NA
HEPTACHLOR EPOXIDE	NA	1.8 UJ	1.8 UJ	2.3 UJ	2.1 UJ	1.8 UJ	NA	1.8 U	1.9 UJ	9.4 UJ	9.8 UJ	NA
METHOXYCHLOR	NA	4.3 J	3.6 UJ	13 J	2.1 UJ	1.8 UJ	NA	1.8 U	2.2 J	94 UJ	98 UJ	NA
TOXAPHENE	NA	180 UJ	180 UJ	230 UJ	210 UJ	180 UJ	NA	180 U	180 UJ	940 UJ	980 UJ	NA

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
 * - From dilution analysis; R - Rejected; NA - Not Analyzed

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	SBP005	SBPF+00	SH-97	SH-A+00	SH-D+695	SH-E+400	SH400	SMS-G3	SPB 005	THG005	THN-62	THN-G2		
Sample Location	SBP005	SBPF+00	SH-97	SH-A+00	SH-D+695	SH-E+400	SH400	SMS-G3	SPB 005	THG005	THN-62	THN-G2		
Date Sampled														
QC Type	None	None	None	None	None	None	None	None	None	None	None	None		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Filtering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals (MG/KG)														
ALUMINUM	7960 J	10800 J	16900	21200	16400	10300		NA	22600		NA	15900 J	NA	21200
ANTIMONY	6.4 UJ	5.8 UJ	9.8 UJ	12.8 UJ	5.8 UJ	10.1 UJ		NA		R	NA	5.9 UJ	NA	
ARSENIC	3.9	10.5	3.5	11.6	3.4	4.3		NA	8.4		NA	11.2	NA	8.9
BARIUM	29.4 J	53.1 J	35.7 J	41.8 J	57.1 J	40 J		NA	62.1 J		NA	58 J	NA	64.1 J
BERYLLIUM	0.61 J	0.62 J	0.78	1.1	0.81	0.43		NA	1.1		NA	0.7 J	NA	1.3
CADMIUM	0.45 UJ	0.73 UJ	0.65 U	0.82 U	0.74 U	0.63 U		NA	0.66 U		NA	0.47 UJ	NA	0.89 J
CALCIUM	850 J	2090 J	653 J	1390 J	2320 J	1310 J		NA	646 J		NA	2780 J	NA	3640 J
CHROMIUM	8.8	14.8	19.3	24.9	19.5	18.4		NA	17.3		NA	25.2	NA	18.9
COBALT	6.3	10.5	6.5 UJ	8.8 UJ	7.5 UJ	6.2 UJ		NA	9.5		NA	8	NA	8
COPPER	15.2	34.7	20.5 J	38.6 J	18.1 J	15.7 J		NA	16.5 J		NA	35.2	NA	37.9 J
IRON	15800 J	16900 J	17800	21500	18500	14400		NA	22800		NA	17900 J	NA	22800
LEAD	22.8	53	60.9 J	118 J	32 J	42.3 J		NA	21.7		NA	90.9	NA	124
MAGNESIUM	2270 J	3600 J	3730	4520	4190	4380		NA	3960		NA	3520 J	NA	4990
MANGANESE	185 J	272 J	213 J	567 J	612 J	234 J		NA	597		NA	328 J	NA	522
MERCURY	0.09 UJ	0.08 UJ	0.16 J	0.28	0.14 J	0.11 J		NA	0.11 U		NA	0.16 J	NA	0.12 U
NICKEL	11.6 U	15.6 U	13 J	19.8 J	14.3 J	16.6 J		NA	14.4 J		NA	17.1 U	NA	21.6 J
POTASSIUM	605 UJ	1260 J	1180	1170	1370	1710		NA	1720		NA	787 UJ	NA	1480
SELENIUM	0.33 UJ	0.31 UJ	1.3 J	2.2 J	0.98 U	0.84 U		NA	1.4		NA	0.33 UJ	NA	3.3 J
SILVER	0.36 U	0.31 U	1.5 UJ	1.9 UJ	1.7 UJ	1.5 UJ		NA	1.5 UJ		NA	0.58 J	NA	1.9 U
SODIUM	82.4	105	75.3 UJ	168 UJ	97.3 UJ	62.7 UJ		NA		R	NA	116	NA	
THALLIUM	0.17 UJ	0.16 J	1.5 U	1.9 U	1.7 U	1.5 U		NA	1.5 U		NA	0.16 U	NA	1.6 UJ
VANADIUM	21.3	29.6	49.6	81.9	45.1	30.6		NA	37.2 J		NA	34.5	NA	53.5 J
ZINC	35.2 J	66 J	45 J	87.6 J	78.1 J	49.6 J		NA	63.5 J		NA	77.8 J	NA	134 J

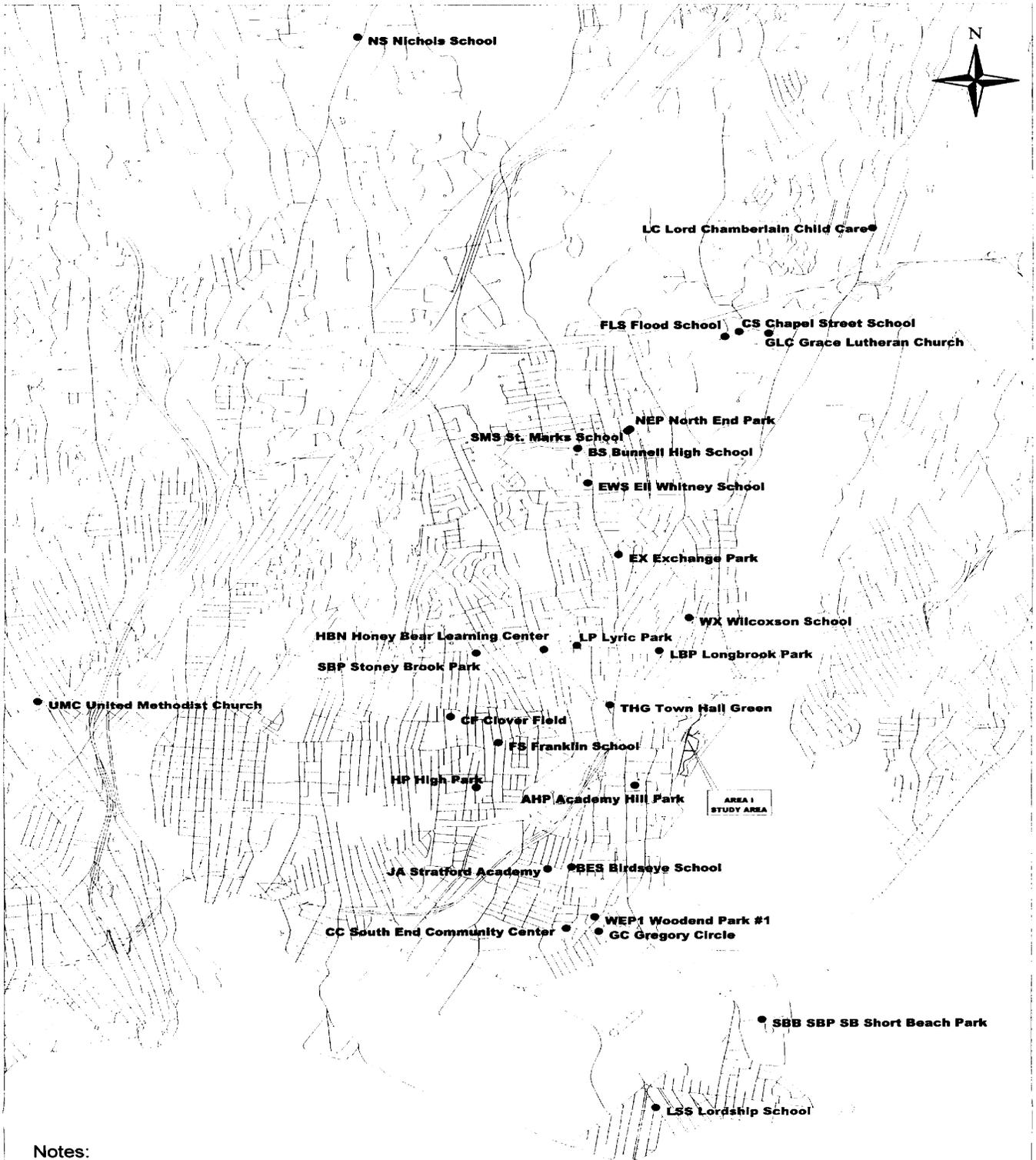
ANALYTICAL RESULTS
 DRAFT REMEDIAL INVESTIGATION REPORT
 RAYMARK-FERRY CREEK - OU3
 STRATFORD, CONNECTICUT

Sample Number	UMC-92	WBG008	WEP-2-63	WEP-2-G3	WX-G3
Sample Location	UMC-92	WBG008	WEP-2-63	WEP-2-G3	WX-G3
Date Sampled					
QC Type	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA
Pesticides/PCBs (UG/KG)					
4,4'-DDD	NA	NA	NA	18 U	NA
4,4'-DDE	NA	NA	NA	18 U	NA
4,4'-DDT	NA	NA	NA	18 U	NA
ALDRIN	NA	NA	NA	9.3 U	NA
ALPHA-BHC	NA	NA	NA	9.3 U	NA
ALPHA-CHLORDANE	NA	NA	NA	9.3 U	NA
AROCLOR, TOTAL	NA	NA	NA	905 U	NA
AROCLOR-1016	NA	NA	NA	180 U	NA
AROCLOR-1221	NA	NA	NA	370 U	NA
AROCLOR-1232	NA	NA	NA	180 U	NA
AROCLOR-1242	NA	NA	NA	180 U	NA
AROCLOR-1248	NA	NA	NA	180 U	NA
AROCLOR-1254	NA	NA	NA	180 U	NA
AROCLOR-1260	NA	NA	NA	180 U	NA
AROCLOR-1262	NA	NA	NA	180 U	NA
AROCLOR-1268	NA	NA	NA	180 U	NA
BETA-BHC	NA	NA	NA	9.3 U	NA
DELTA-BHC	NA	NA	NA	9.3 U	NA
DIELDRIN	NA	NA	NA	18 U	NA
ENDOSULFAN I	NA	NA	NA	9.3 U	NA
ENDOSULFAN II	NA	NA	NA	18 U	NA
ENDOSULFAN SULFATE	NA	NA	NA	18 U	NA
ENDRIN	NA	NA	NA	18 U	NA
ENDRIN ALDEHYDE	NA	NA	NA	18 U	NA
ENDRIN KETONE	NA	NA	NA	18 U	NA
GAMMA-BHC (LINDANE)	NA	NA	NA	9.3 U	NA
GAMMA-CHLORDANE	NA	NA	NA	9.3 U	NA
HEPTACHLOR	NA	NA	NA	9.3 U	NA
HEPTACHLOR EPOXIDE	NA	NA	NA	9.3 U	NA
METHOXYCHLOR	NA	NA	NA	93 U	NA
TOXAPHENE	NA	NA	NA	930 U	NA

U - Not detected; UJ - Detection limit approximate; J - Quantitation approximate;
 * - From dilution analysis; R - Rejected; NA - Not Analyzed

ANALYTICAL RESULTS
DRAFT REMEDIAL INVESTIGATION REPORT
RAYMARK-FERRY CREEK - OU3
STRATFORD, CONNECTICUT

Sample Number	UMC-02	WBG008	WEP-2-63	WEP-2-G3	WX-G3
Sample Location	UMC-02	WBG008	WEP-2-63	WEP-2-G3	WX-G3
Date Sampled					
QC Type	None	None	None	None	None
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
Filtering	NA	NA	NA	NA	NA
Metals (MG/KG)					
ALUMINUM	7120	12400 J	11600 J	NA	7640
ANTIMONY	4.8 UJ	5.7 UJ	8 UJ	NA	5 UJ
ARSENIC	4.2	8.5	4 J	NA	2 J
BARIUM	32.8 J	34.4	33.7	NA	33.2
BERYLLIUM	0.31 J	1	0.55 J	NA	0.35 J
CADMIUM	0.63 U	0.4 U	0.42 UJ	NA	0.62 UJ
CALCIUM	7420 J	775 J	1260 J	NA	1230 J
CHROMIUM	11.3	16.2	12.7	NA	12.3
COBALT	4.2 UJ	7	7.1	NA	4.7
COPPER	17 J	27.3 J	18.4 J	NA	9.2 J
IRON	11300	16100 J	12800 J	NA	11200
LEAD	65.4 J	162	44.6 J	NA	11.5
MAGNESIUM	4710	2760 J	2540 J	NA	2380
MANGANESE	212 J	253 J	216 J	NA	247
MERCURY	0.17 J	0.11 J	0.19 J	NA	0.1 U
NICKEL	9.7 J	12.8 J	11.2	NA	8.8 J
POTASSIUM	941	615 UJ	548 U	NA	1150
SELENIUM	0.84 U	2.1 UJ	0.33 UJ	NA	0.83 UJ
SILVER	1.5 UJ	0.32 U	0.33 U	NA	1.7 U
SODIUM	74.4 UJ	109	100	NA	77.7 J
THALLIUM	1.5 U	0.38 UJ	0.16 UJ	NA	1.4 UJ
VANADIUM	20.6	46.3	23	NA	21.3
ZINC	76.1 J	58.9 J	57.1 J	NA	40.6 J



Notes:

All Locations Considered Approximate
 Plan Not to be Used For Design
 Coordinates Obtained from EPA Region I GIS
 Coordinates for THN Second Hill Lane School
 and SH Tree House Nursery Not Available



SOIL BACKGROUND LOCATIONS
 DRAFT REMEDIAL INVESTIGATION REPORT - AREA I
 RAYMARK - FERRY CREEK - OU3
 STRATFORD, CONNECTICUT



TETRA TECH NUS, INC.

Drawn By: D.A. Chisholm
 Scale: As Shown

Date: February 27, 1999
 File: ...Raymark\OU3FIGS.APR

55 JONSPIN ROAD WILMINGTON, MA 01887
 (978)658-7899

Appendix F.4

**State of Connecticut
Water Quality Standards**

TABLE F.4.1
STATE OF CONNECTICUT WATER QUALITY STANDARDS
AREA A-1, MORGAN FRANCIS PROPERTIES
SURFACE WATER
FERRY CREEK, STRATFORD, CT
PAGE 1 OF 1

Parameter	Frequency	Range Of Detects	Range Of Nondetects	Average	Location of Maximum	State WQS Freshwater Chronic ⁽¹⁾	State WQS Saltwater Chronic ⁽¹⁾	State WQS Water Only ⁽¹⁾	State WQS Water and Organisms ⁽¹⁾
Volatiles (ug/L)									
1,1,1-TRICHLOROETHANE	6/6	3 - 170	-	57	RM-SW-MF01-02			3100	
1,1-DICHLOROETHANE	6/6	6 - 45	-	20	RM-SW-MF01-02				
1,1-DICHLOROETHENE	4/6	8 - 95	10 - 10	32	RM-SW-MF01-02				
1,2-DICHLOROETHENE (TOTAL)	6/6	7 - 110	-	48	RM-SW-MF01-02				
BENZENE	5/6	1 - 2	10 - 10	2	RM-SW-MF02-01, 02, & 03; RM-SW-MF01-02				71
BROMODICHLOROMETHANE	1/6	1 - 1	10 - 10	4	RM-SW-MF02-01			0.27	22
CARBON DISULFIDE	1/6	36 - 36	10 - 10	10	RM-SW-MF03-03				
CHLOROBENZENE	5/6	1 - 4	10 - 10	3	RM-SW-MF02-02			680	21000
CHLOROFORM	5/6	1 - 4	10 - 10	3	RM-SW-MF02-01			5.7	470
METHYLENE CHLORIDE	1/6	2 - 2	10 - 17	5	RM-SW-MF03-03			4.7	1600
TETRACHLOROETHENE	3/6	1 - 3	10 - 10	3	RM-SW-MF03-03				8.85
TOLUENE	1/6	5 - 5	10 - 10	5	RM-SW-MF01-02			6800	200000
TRICHLOROETHENE	6/6	1 - 76	-	30	RM-SW-MF01-02				81
VINYL CHLORIDE	6/6	3 - 24	-	10	RM-SW-MF01-02				525
Semivolatiles (ug/L)									
BIS(2-ETHYLHEXYL)PHTHALATE	2/6	1 - 1	10 - 10	4	RM-SW-MF01 & 02-02			1.8	5.9
DI-N-OCTYL PHTHALATE	3/6	1 - 2	10 - 10	3	RM-SW-MF03-03				
DIETHYL PHTHALATE	2/6	2 - 3	10 - 10	4	RM-SW-MF03-03			23000	120000
DIMETHYL PHTHALATE	1/6	4 - 4	10 - 10	5	RM-SW-MF01-01			313000	2900000
Pesticides/PCBs (ug/L)									
4,4'-DDT	1/6	0.0015 - 0.0015	0.1 - 0.1	0.04	RM-SW-MF01-02				
ALDRIN	1/6	0.001 - 0.001	0.05 - 0.05	0.02	RM-SW-MF02-03	1.5	0.65		
ALPHA-BHC	2/6	0.0035 - 0.0039	0.05 - 0.05	0.02	RM-SW-MF02-02				0.013
DELTA-BHC	1/6	0.001 - 0.001	0.05 - 0.05	0.02	RM-SW-MF01-02				
DIELDRIN	3/6	0.001 - 0.0039	0.1 - 0.1	0.03	RM-SW-MF01-02				
GAMMA-CHLORDANE	1/6	0.002 - 0.002	0.05 - 0.05	0.02	RM-SW-MF03-03	0.0043	0.004		
HEPTACHLOR	1/6	0.0011 - 0.0011	0.05 - 0.05	0.02	RM-SW-MF01-02	0.0038	0.0036		
Inorganics (ug/L)									
ANTIMONY	1/6	63.7 - 63.7	5 - 26.3	14	RM-SW-MF03-03				4300
ARSENIC	2/6	17.9 - 18.8	1.8 - 14.7	8	RM-SW-MF01-01	190	36		
BARIUM	6/6	29.8 - 75.1	-	41	RM-SW-MF02-03				
CALCIUM	6/6	29900 - 50000	-	37633	RM-SW-MF01-01				
COPPER	2/6	8.1 - 9.8	8 - 14.1	6	RM-SW-MF02-02				
IRON	6/6	231 - 943	-	701	RM-SW-MF02-02				
MAGNESIUM	6/6	12900 - 51000	-	26717	RM-SW-MF01-02				
MANGANESE	6/6	379 - 1600	-	860	RM-SW-MF01-02				
MERCURY	2/6	0.11 - 0.12	0.2 - 0.2	0.11	RM-SW-MF03-03			0.14	0.15
POTASSIUM	5/6	7270 - 30500	5930 - 5930	14979	RM-SW-MF01-02				
SELENIUM	1/6	4 - 4	2.5 - 5	2	RM-SW-MF01-01	5	71	100	6800
SODIUM	6/6	61100 - 454000	-	213000	RM-SW-MF01-02				
ZINC	6/6	35 - 77.7	-	58	RM-SW-MF02-01		86		

(1) State of Connecticut Department of Environmental Protection, Water Quality Standards, Appendix D: Numerical Water Quality Criteria for Chemical Constituents, March 17, 1997.

TABLE F.4.2
 STATE OF CONNECTICUT WATER QUALITY STANDARDS
 AREA A-3, RESIDENTIAL PROPERTIES ON HOUSATONIC AVENUE
 SURFACE WATER
 FERRY CREEK, STRATFORD, CT
 PAGE 1 OF 1

Parameter	Frequency	Range Of Detects	Range Of Nondetects	Average	Location of Maximum	State WQS Freshwater Chronic ⁽¹⁾	State WQS Saltwater Chronic ⁽¹⁾	State WQS Water Only ⁽¹⁾	State WQS Water and Organisms ⁽¹⁾
Volatiles (ug/L)									
1,1,1-TRICHLOROETHANE	16/17	1 - 130	10 - 10	41	RM-SW-SD06 & 14-02			3100	
1,1-DICHLOROETHANE	11/17	3 - 29	10 - 10	11	RM-SW-SD23-04				
1,1-DICHLOROETHENE	12/17	4 - 50	10 - 10	17	RM-SW-SD06-02				
1,2-DICHLOROETHENE (TOTAL)	15/17	2 - 81	10 - 10	25	RM-SW-SD23-04				
BENZENE	3/17	1 - 1	10 - 10	4	RM-SW-SD12 & 14-02; RM-SW-SD06-02			1.2	71
CHLOROBENZENE	6/17	1 - 4	10 - 10	4	RM-SW-SD06-02			680	21000
CHLOROETHANE	1/17	1 - 1	10 - 10	5	RM-SW-SD12-02				
TRICHLOROETHENE	15/17	2 - 78	10 - 10	20	RM-SW-SD23-04				81
VINYL CHLORIDE	6/17	2 - 12	10 - 10	6	RM-SW-SD06-02				525
Semivolatiles (ug/L)									
BUTYLBENZYL PHTHALATE	1/17	1 - 1	10 - 10	5	RM-SW-SD13-02				
DI-N-BUTYL PHTHALATE	1/17	1 - 1	10 - 10	5	RM-SW-SD06-01			2700	12000
Pesticides/PCBs (ug/L)									
ALPHA-BHC	1/17	0.0024 - 0.0024	0.05 - 0.05	0.02	RM-SW-SD13-02			0.0039	0.013
AROCLOR-1262	2/17	0.072 - 0.23	0.5 - 1	0.27	RM-SW-SD13-02				
BETA-BHC	1/17	0.033 - 0.033	0.05 - 0.05	0.03	RM-SW-SD01-01				0.046
DIELDRIN	2/17	0.002 - 0.0025	0.1 - 0.1	0.04	RM-SW-SD14-02				
ENDRIN KETONE	1/17	0.0024 - 0.0024	0.1 - 0.1	0.05	RM-SW-SD13-02				
Inorganics (ug/L)									
ALUMINUM	5/17	186 - 2180	25 - 148	220	RM-SW-SD13-04				
ANTIMONY	2/16	6 - 20.8	5 - 26.3	7	RM-SW-SD13-04				4300
ARSENIC	3/17	4.8 - 75.1	2.7 - 66	20	RM-SW-SD22-04	190			
BARIUM	17/17	9.5 - 173	-	37	RM-SW-SD13-02				
BERYLLIUM	1/17	0.31 - 0.31	0.3 - 1	0	RM-SW-SD01-04				
CALCIUM	17/17	15100 - 197000	-	119182	RM-SW-SD05-01				
CHROMIUM	9/17	8.8 - 20.5	4.7 - 5	7	RM-SW-SD13-04		50	170	3400
COPPER	8/17	3.4 - 156	3 - 29.1	26	RM-SW-SD13-02				
IRON	17/17	241 - 4500	-	696	RM-SW-SD13-04				
LEAD	5/17	5.5 - 147	1.5 - 42	23	RM-SW-SD13-04				
MAGNESIUM	17/17	23000 - 675000	-	339729	RM-SW-SD05-01				
MANGANESE	17/17	105 - 2910	-	675	RM-SW-SD23-04				
MERCURY	7/17	0.3 - 3.3	0.1 - 0.2	0.48	RM-SW-SD12-04				
NICKEL	2/17	4.2 - 11.7	3.6 - 15.4	4	RM-SW-SD13-04	88		610	4600
POTASSIUM	17/17	12400 - 275000	-	123459	RM-SW-SD05-01				
SODIUM	17/17	148000 - 7600000	-	3244059	RM-SW-SD14-02				
VANADIUM	4/17	2.8 - 9.8	2 - 8.6	2	RM-SW-SD13-04				
ZINC	6/15	38.3 - 127	18.4 - 43.6	39	RM-SW-SD13-04				

(1) State of Connecticut Department of Environmental Protection, Water Quality Standards, Appendix D: Numerical Water Quality Criteria for Chemical Constituents, March 17, 1997.

Appendix F.5

Sample Subsets

**TABLE 5-1
SAMPLE LIST AREA A1
CURRENT COMMERCIALWORKER**

AOC	RECEPTOR	MATRIX	BORING
A1	CM	SOIL	A1-SB01
A1	CM	SOIL	A1-SB02
A1	CM	SOIL	A1-SB03
A1	CM	SOIL	A1-SB04
A1	CM	SOIL	A1-SB07
A1	CM	SOIL	A1-SB11
A1	CM	SOIL	A1-SS06
A1	CM	SOIL	EB E+300
A1	CM	SOIL	EB E+400
A1	CM	SOIL	EB E+500
A1	CM	SOIL	EB E+600
A1	CM	SOIL	EB E+700
A1	CM	SOIL	EB E+800
A1	CM	SOIL	EB W+100
A1	CM	SOIL	EB W+130
A1	CM	SOIL	EB W+200
A1	CM	SOIL	EB W+300
A1	CM	SOIL	EB W+400
A1	CM	SOIL	EB W+500
A1	CM	SOIL	EB W+600
A1	CM	SOIL	FB W+1300
A1	CM	SOIL	FB W+1350
A1	CM	SOIL	FB W+1400
A1	CM	SOIL	FB W+1450
A1	CM	SOIL	FB W+1500
A1	CM	SOIL	FB W+1550
A1	CM	SOIL	FB W+1600
A1	CM	SOIL	FB W+1650
A1	CM	SOIL	FB W+1700
A1	CM	SOIL	FB W+1750
A1	CM	SOIL	FB W+1800
A1	CM	SOIL	MF C+00
A1	CM	SOIL	MF D+00
A1	CM	SOIL	MF D+100
A1	CM	SOIL	MF E+00
A1	CM	SOIL	MF E+050
A1	CM	SOIL	MF E+080
A1	CM	SOIL	MF E+100
A1	CM	SOIL	MF F+100
A1	CM	SOIL	MF F-010
A1	CM	SOIL	MF-SB5
A1	CM	SOIL	MF-SB6
A1	CM	SOIL	MFP-5
A1	CM	SOIL	PP CD+00
A1	CM	SOIL	PP CD+050
A1	CM	SOIL	PP CD+100
A1	CM	SOIL	PP CD+110
A1	CM	SOIL	PP DDE+00
A1	CM	SOIL	PP DDE+050
A1	CM	SOIL	PP DDE+100
A1	CM	SOIL	PP-DDE+110
A1	CM	SOIL	PP DE+00
A1	CM	SOIL	PP DE+050

**TABLE 5-1
SAMPLE LIST AREA A1
CURRENT COMMERCIALWORKER**

AOC	RECEPTOR	MATRIX	BORING
A1	CM	SOIL	PP DE+100
A1	CM	SOIL	PP DE+110
A1	CM	SOIL	PP EF+00
A1	CM	SOIL	PP EF+050
A1	CM	SOIL	PP-EF+100
A1	CM	SOIL	PP EF+110
A1	CM	SOIL	PP-DDE+110
A1	CM	SOIL	PP-EF+100
A1	CM	SOIL	SCT A+88
A1	CM	SOIL	SCT-G1
A1	CM	SOIL	SCT-G10
A1	CM	SOIL	SCT-G2
A1	CM	SOIL	SCT-G3
A1	CM	SOIL	SCT-G4
A1	CM	SOIL	SCT-G5
A1	CM	SOIL	SCT-G6
A1	CM	SOIL	SCT-G7
A1	CM	SOIL	SCT-G8
A1	CM	SOIL	SCT-G9
A1	CM	SOIL	SLE-CR+00
A1	CM	SOIL	SLE-G1
A1	CM	SOIL	SLE-G10
A1	CM	SOIL	SLE-G11
A1	CM	SOIL	SLE-G2
A1	CM	SOIL	SLE-G3
A1	CM	SOIL	SLE-G4
A1	CM	SOIL	SLE-G5
A1	CM	SOIL	SLE-G6
A1	CM	SOIL	SLE-G7
A1	CM	SOIL	SLE-G8
A1	CM	SOIL	SLE-G9

TABLE 5-2
SAMPLE LIST AREA A1
FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1scn	SOIL	A1-SB01
A1	a1scn	SOIL	A1-SB02
A1	a1scn	SOIL	A1-SB03
A1	a1scn	SOIL	A1-SB04
A1	a1scn	SOIL	A1-SB07
A1	a1scn	SOIL	A1-SB11
A1	a1scn	SOIL	A1-SS01
A1	a1scn	SOIL	A1-SS02
A1	a1scn	SOIL	A1-SS03
A1	a1scn	SOIL	A1-SS04
A1	a1scn	SOIL	A1-SS05
A1	a1scn	SOIL	A1-SS06
A1	a1scn	SOIL	BP106A S286,E150
A1	a1scn	SOIL	BP106A S309,E145
A1	a1scn	SOIL	BP116A S230,E162
A1	a1scn	SOIL	BP126A S175,E213
A1	a1scn	SOIL	BP68A S535,E172
A1	a1scn	SOIL	BP70A S485,E160
A1	a1scn	SOIL	BP70A S528,E172
A1	a1scn	SOIL	BP78A S453,E162
A1	a1scn	SOIL	BP96A S342,E166
A1	a1scn	SOIL	BP96A S365,E168
A1	a1scn	SOIL	EB E+300
A1	a1scn	SOIL	EB E+400
A1	a1scn	SOIL	EB E+500
A1	a1scn	SOIL	EB E+600
A1	a1scn	SOIL	EB E+700
A1	a1scn	SOIL	EB E+800
A1	a1scn	SOIL	EB W+100
A1	a1scn	SOIL	EB W+130
A1	a1scn	SOIL	EB W+200
A1	a1scn	SOIL	EB W+300
A1	a1scn	SOIL	EB W+400
A1	a1scn	SOIL	EB W+500
A1	a1scn	SOIL	EB W+600
A1	a1scn	SOIL	EB W+700
A1	a1scn	SOIL	EB W+800
A1	a1scn	SOIL	EB640A N124,E156
A1	a1scn	SOIL	EB640A N68,E167
A1	a1scn	SOIL	EB650A N148,E95
A1	a1scn	SOIL	EB728A N247,E46
A1	a1scn	SOIL	EB728A N277,E37
A1	a1scn	SOIL	FB W+1300
A1	a1scn	SOIL	FB W+1350
A1	a1scn	SOIL	FB W+1400
A1	a1scn	SOIL	FB W+1450
A1	a1scn	SOIL	FB W+1500
A1	a1scn	SOIL	FB W+1550
A1	a1scn	SOIL	FB W+1600
A1	a1scn	SOIL	FB W+1650
A1	a1scn	SOIL	FB W+1700

TABLE 5-2
SAMPLE LIST AREA A1
FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1scn	SOIL	FB W+1750
A1	a1scn	SOIL	FB W+1800
A1	a1scn	SOIL	H2A N250,E6
A1	a1scn	SOIL	H2A N256,W41
A1	a1scn	SOIL	MF A+00
A1	a1scn	SOIL	MF A+050
A1	a1scn	SOIL	MF A+100
A1	a1scn	SOIL	MF A+200
A1	a1scn	SOIL	MF A+300
A1	a1scn	SOIL	MF AY0
A1	a1scn	SOIL	MF AY1
A1	a1scn	SOIL	MF AY2
A1	a1scn	SOIL	MF AY3
A1	a1scn	SOIL	MF AY4
A1	a1scn	SOIL	MF AZ+365
A1	a1scn	SOIL	MF B+00
A1	a1scn	SOIL	MF B+050
A1	a1scn	SOIL	MF B+100
A1	a1scn	SOIL	MF B+200
A1	a1scn	SOIL	MF B+300
A1	a1scn	SOIL	MF B+400
A1	a1scn	SOIL	MF B+425
A1	a1scn	SOIL	MF C+00
A1	a1scn	SOIL	MF C+050
A1	a1scn	SOIL	MF C+200
A1	a1scn	SOIL	MF C+300
A1	a1scn	SOIL	MF C+360
A1	a1scn	SOIL	MF D+00
A1	a1scn	SOIL	MF D+100
A1	a1scn	SOIL	MF D+200
A1	a1scn	SOIL	MF D+300
A1	a1scn	SOIL	MF D+335
A1	a1scn	SOIL	MF E+00
A1	a1scn	SOIL	MF E+050
A1	a1scn	SOIL	MF E+080
A1	a1scn	SOIL	MF E+100
A1	a1scn	SOIL	MF E+200
A1	a1scn	SOIL	MF E+300
A1	a1scn	SOIL	MF E+325
A1	a1scn	SOIL	MF F+050
A1	a1scn	SOIL	MF F+100
A1	a1scn	SOIL	MF F+200
A1	a1scn	SOIL	MF F+279
A1	a1scn	SOIL	MF F-010
A1	a1scn	SOIL	MF G+100
A1	a1scn	SOIL	MF G+200
A1	a1scn	SOIL	MF G+265
A1	a1scn	SOIL	MF-A+400
A1	a1scn	SOIL	MF-AZ+300
A1	a1scn	SOIL	MF-C+100
A1	a1scn	SOIL	MF-G+200

TABLE 5-2
SAMPLE LIST AREA A1
FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1scn	SOIL	MF-G1
A1	a1scn	SOIL	MF-G2
A1	a1scn	SOIL	MF-G3
A1	a1scn	SOIL	MF-G4
A1	a1scn	SOIL	MF-G5
A1	a1scn	SOIL	MF-G6
A1	a1scn	SOIL	MF-SB1
A1	a1scn	SOIL	MF-SB2
A1	a1scn	SOIL	MF-SB3
A1	a1scn	SOIL	MF-SB4
A1	a1scn	SOIL	MF-SB5
A1	a1scn	SOIL	MF-SB6
A1	a1scn	SOIL	MF-SB7
A1	a1scn	SOIL	MF-SB8
A1	a1scn	SOIL	MF-TP1
A1	a1scn	SOIL	MF-TP2
A1	a1scn	SOIL	MF-TP3
A1	a1scn	SOIL	MFP-1
A1	a1scn	SOIL	MFP-2
A1	a1scn	SOIL	MFP-5
A1	a1scn	SOIL	MFP-6
A1	a1scn	SOIL	MFTP4
A1	a1scn	SOIL	MS74A E290,S145
A1	a1scn	SOIL	MS74A E305,S20
A1	a1scn	SOIL	MW-101D
A1	a1scn	SOIL	MW-102D
A1	a1scn	SOIL	MW-103D
A1	a1scn	SOIL	MW-104D
A1	a1scn	SOIL	PP CD+00
A1	a1scn	SOIL	PP CD+050
A1	a1scn	SOIL	PP CD+100
A1	a1scn	SOIL	PP CD+110
A1	a1scn	SOIL	PP DDE+00
A1	a1scn	SOIL	PP DDE+050
A1	a1scn	SOIL	PP DDE+100
A1	a1scn	SOIL	PP DE+00
A1	a1scn	SOIL	PP DE+050
A1	a1scn	SOIL	PP DE+100
A1	a1scn	SOIL	PP DE+110
A1	a1scn	SOIL	PP EF+00
A1	a1scn	SOIL	PP EF+050
A1	a1scn	SOIL	PP EF+110
A1	a1scn	SOIL	PP-DDE+110
A1	a1scn	SOIL	PP-EF+100
A1	a1scn	SOIL	SCT A+188
A1	a1scn	SOIL	SCT A+88
A1	a1scn	SOIL	SCT-G1
A1	a1scn	SOIL	SCT-G10
A1	a1scn	SOIL	SCT-G2
A1	a1scn	SOIL	SCT-G3
A1	a1scn	SOIL	SCT-G4

TABLE 5-2
 SAMPLE LIST AREA A1
 FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1scn	SOIL	SCT-G5
A1	a1scn	SOIL	SCT-G6
A1	a1scn	SOIL	SCT-G7
A1	a1scn	SOIL	SCT-G8
A1	a1scn	SOIL	SCT-G9
A1	a1scn	SOIL	SLE-CR+00
A1	a1scn	SOIL	SLE-G1
A1	a1scn	SOIL	SLE-G10
A1	a1scn	SOIL	SLE-G11
A1	a1scn	SOIL	SLE-G2
A1	a1scn	SOIL	SLE-G3
A1	a1scn	SOIL	SLE-G4
A1	a1scn	SOIL	SLE-G5
A1	a1scn	SOIL	SLE-G6
A1	a1scn	SOIL	SLE-G7
A1	a1scn	SOIL	SLE-G8
A1	a1scn	SOIL	SLE-G9
A1	a1scn	SOIL/PAVEMENT	A1-SB05
A1	a1scn	SOIL/PAVEMENT	A1-SB06
A1	a1scn	SOIL/PAVEMENT	A1-SB09
A1	a1scn	SOIL/PAVEMENT	A1-SB10

TABLE 5-3
SAMPLE LIST AREA A1
RECREATIONAL USERS

AOC	RECEPTOR	MATRIX	BORING
A1	FR	SOIL	A1-SS01
A1	FR	SOIL	BP106A S286,E150
A1	FR	SOIL	BP106A S309,E145
A1	FR	SOIL	BP116A S230,E162
A1	FR	SOIL	BP126A S175,E213
A1	FR	SOIL	BP68A S535,E172
A1	FR	SOIL	BP70A S485,E160
A1	FR	SOIL	BP70A S528,E172
A1	FR	SOIL	BP78A S453,E162
A1	FR	SOIL	BP96A S342,E166
A1	FR	SOIL	BP96A S365,E168
A1	FR	SOIL	EB W+700
A1	FR	SOIL	EB W+800
A1	FR	SOIL	EB640A N124,E156
A1	FR	SOIL	EB640A N68,E167
A1	FR	SOIL	EB650A N148,E95
A1	FR	SOIL	EB728A N247,E46
A1	FR	SOIL	EB728A N277,E37
A1	FR	SOIL	H2A N250,E6
A1	FR	SOIL	H2A N256,W41
A1	FR	SOIL	MF A+00
A1	FR	SOIL	MF A+050
A1	FR	SOIL	MF A+100
A1	FR	SOIL	MF A+200
A1	FR	SOIL	MF-A+400
A1	FR	SOIL	MF AY0
A1	FR	SOIL	MF AY1
A1	FR	SOIL	MF AY2
A1	FR	SOIL	MF AY3
A1	FR	SOIL	MF AY4
A1	FR	SOIL	MF-AZ+300
A1	FR	SOIL	MF AZ+365
A1	FR	SOIL	MF B+00
A1	FR	SOIL	MF B+400
A1	FR	SOIL	MF B+425
A1	FR	SOIL	MF C+300
A1	FR	SOIL	MF C+360
A1	FR	SOIL	MF D+300
A1	FR	SOIL	MF D+335
A1	FR	SOIL	MF E+300
A1	FR	SOIL	MF E+325
A1	FR	SOIL	MF-SB1
A1	FR	SOIL	MF-SB3
A1	FR	SOIL	MF-SB4
A1	FR	SOIL	MF-SB8
A1	FR	SOIL	MF-TP1
A1	FR	SOIL	MF-TP2
A1	FR	SOIL	MFP-6
A1	FR	SOIL	MS74A E290,S145
A1	FR	SOIL	MS74A E305,S20
A1	FR	SOIL	MW-101D
A1	FR	SOIL	MW-102D

TABLE 5-4
SAMPLE LIST AREA A1
ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1str	SEDIMENT	A1-SD01
A1	a1str	SEDIMENT	A1-SD02
A1	a1str	SEDIMENT	A1-SD03
A1	a1str	SEDIMENT	MF01
A1	a1str	SEDIMENT	MF02
A1	a1str	SEDIMENT	MF03
A1	a1str	SEDIMENT	SD16W
A1	a1str	SEDIMENT	SD17W
A1	a1str	SEDIMENT	SD18W
A1	a1str	SOIL	A1-SB01
A1	a1str	SOIL	A1-SB02
A1	a1str	SOIL	A1-SB03
A1	a1str	SOIL	A1-SB04
A1	a1str	SOIL	A1-SB07
A1	a1str	SOIL	A1-SB11
A1	a1str	SOIL	A1-SS01
A1	a1str	SOIL	A1-SS02
A1	a1str	SOIL	A1-SS03
A1	a1str	SOIL	A1-SS04
A1	a1str	SOIL	A1-SS05
A1	a1str	SOIL	A1-SS06
A1	a1str	SOIL	BP106A S286,E150
A1	a1str	SOIL	BP106A S309,E145
A1	a1str	SOIL	BP116A S230,E162
A1	a1str	SOIL	BP126A S175,E213
A1	a1str	SOIL	BP68A S535,E172
A1	a1str	SOIL	BP70A S485,E160
A1	a1str	SOIL	BP70A S528,E172
A1	a1str	SOIL	BP78A S453,E162
A1	a1str	SOIL	BP96A S342,E166
A1	a1str	SOIL	BP96A S365,E168
A1	a1str	SOIL	EB E+300
A1	a1str	SOIL	EB E+400
A1	a1str	SOIL	EB E+500
A1	a1str	SOIL	EB E+600
A1	a1str	SOIL	EB E+700
A1	a1str	SOIL	EB E+800
A1	a1str	SOIL	EB W+100
A1	a1str	SOIL	EB W+130
A1	a1str	SOIL	EB W+200
A1	a1str	SOIL	EB W+300
A1	a1str	SOIL	EB W+400
A1	a1str	SOIL	EB W+500
A1	a1str	SOIL	EB W+600
A1	a1str	SOIL	EB W+700
A1	a1str	SOIL	EB W+800
A1	a1str	SOIL	EB640A N124,E156
A1	a1str	SOIL	EB640A N68,E167
A1	a1str	SOIL	EB650A N148,E95
A1	a1str	SOIL	EB728A N247,E46
A1	a1str	SOIL	EB728A N277,E37

TABLE 5-4
SAMPLE LIST AREA A1
ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1str	SOIL	FB W+1300
A1	a1str	SOIL	FB W+1350
A1	a1str	SOIL	FB W+1400
A1	a1str	SOIL	FB W+1450
A1	a1str	SOIL	FB W+1500
A1	a1str	SOIL	FB W+1550
A1	a1str	SOIL	FB W+1600
A1	a1str	SOIL	FB W+1650
A1	a1str	SOIL	FB W+1700
A1	a1str	SOIL	FB W+1750
A1	a1str	SOIL	FB W+1800
A1	a1str	SOIL	H2A N250,E6
A1	a1str	SOIL	H2A N256,W41
A1	a1str	SOIL	MF A+00
A1	a1str	SOIL	MF A+050
A1	a1str	SOIL	MF A+100
A1	a1str	SOIL	MF A+200
A1	a1str	SOIL	MF A+300
A1	a1str	SOIL	MF AY0
A1	a1str	SOIL	MF AY1
A1	a1str	SOIL	MF AY2
A1	a1str	SOIL	MF AY3
A1	a1str	SOIL	MF AY4
A1	a1str	SOIL	MF AZ+365
A1	a1str	SOIL	MF B+00
A1	a1str	SOIL	MF B+050
A1	a1str	SOIL	MF B+100
A1	a1str	SOIL	MF B+200
A1	a1str	SOIL	MF B+300
A1	a1str	SOIL	MF B+400
A1	a1str	SOIL	MF B+425
A1	a1str	SOIL	MF C+00
A1	a1str	SOIL	MF C+050
A1	a1str	SOIL	MF C+200
A1	a1str	SOIL	MF C+300
A1	a1str	SOIL	MF C+360
A1	a1str	SOIL	MF D+00
A1	a1str	SOIL	MF D+100
A1	a1str	SOIL	MF D+200
A1	a1str	SOIL	MF D+300
A1	a1str	SOIL	MF D+335
A1	a1str	SOIL	MF E+00
A1	a1str	SOIL	MF E+050
A1	a1str	SOIL	MF E+080
A1	a1str	SOIL	MF E+100
A1	a1str	SOIL	MF E+200
A1	a1str	SOIL	MF E+300
A1	a1str	SOIL	MF E+325
A1	a1str	SOIL	MF F+050
A1	a1str	SOIL	MF F+100
A1	a1str	SOIL	MF F+200

TABLE 5-4
SAMPLE LIST AREA A1
ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1str	SOIL	MF F+279
A1	a1str	SOIL	MF F-010
A1	a1str	SOIL	MF G+100
A1	a1str	SOIL	MF G+200
A1	a1str	SOIL	MF G+265
A1	a1str	SOIL	MF-A+400
A1	a1str	SOIL	MF-AZ+300
A1	a1str	SOIL	MF-C+100
A1	a1str	SOIL	MF-G+200
A1	a1str	SOIL	MF-G1
A1	a1str	SOIL	MF-G2
A1	a1str	SOIL	MF-G3
A1	a1str	SOIL	MF-G4
A1	a1str	SOIL	MF-G5
A1	a1str	SOIL	MF-G6
A1	a1str	SOIL	MF-SB1
A1	a1str	SOIL	MF-SB2
A1	a1str	SOIL	MF-SB3
A1	a1str	SOIL	MF-SB4
A1	a1str	SOIL	MF-SB5
A1	a1str	SOIL	MF-SB6
A1	a1str	SOIL	MF-SB7
A1	a1str	SOIL	MF-SB8
A1	a1str	SOIL	MFP-1
A1	a1str	SOIL	MFP-2
A1	a1str	SOIL	MFP-5
A1	a1str	SOIL	MFP-6
A1	a1str	SOIL	MS74A E290,S145
A1	a1str	SOIL	MS74A E305,S20
A1	a1str	SOIL	MW-101D
A1	a1str	SOIL	MW-102D
A1	a1str	SOIL	MW-103D
A1	a1str	SOIL	MW-104D
A1	a1str	SOIL	PP CD+00
A1	a1str	SOIL	PP CD+050
A1	a1str	SOIL	PP CD+100
A1	a1str	SOIL	PP CD+110
A1	a1str	SOIL	PP DDE+00
A1	a1str	SOIL	PP DDE+050
A1	a1str	SOIL	PP DDE+100
A1	a1str	SOIL	PP DE+00
A1	a1str	SOIL	PP DE+050
A1	a1str	SOIL	PP DE+100
A1	a1str	SOIL	PP DE+110
A1	a1str	SOIL	PP EF+00
A1	a1str	SOIL	PP EF+050
A1	a1str	SOIL	PP EF+110
A1	a1str	SOIL	PP-DDE+110
A1	a1str	SOIL	PP-EF+100
A1	a1str	SOIL	SCT A+188
A1	a1str	SOIL	SCT A+88

TABLE 5-4
SAMPLE LIST AREA A1
ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A1	a1str	SOIL	SCT-G1
A1	a1str	SOIL	SCT-G10
A1	a1str	SOIL	SCT-G2
A1	a1str	SOIL	SCT-G3
A1	a1str	SOIL	SCT-G4
A1	a1str	SOIL	SCT-G5
A1	a1str	SOIL	SCT-G6
A1	a1str	SOIL	SCT-G7
A1	a1str	SOIL	SCT-G8
A1	a1str	SOIL	SCT-G9
A1	a1str	SOIL	SLE-CR+00
A1	a1str	SOIL	SLE-G1
A1	a1str	SOIL	SLE-G10
A1	a1str	SOIL	SLE-G11
A1	a1str	SOIL	SLE-G2
A1	a1str	SOIL	SLE-G3
A1	a1str	SOIL	SLE-G4
A1	a1str	SOIL	SLE-G5
A1	a1str	SOIL	SLE-G6
A1	a1str	SOIL	SLE-G7
A1	a1str	SOIL	SLE-G8
A1	a1str	SOIL	SLE-G9
A1	a1str	WETLAND	A1-SD04
A1	a1str	WETLAND	SCT A+138
A1	a1str	WETLAND	SLE-CR+100
A1	a1str	WETLAND	SLE-CR+200
A1	a1str	WETLAND	SLE-CR+300
A1	a1str	WETLAND	SLE-CR+400
A1	a1str	WETLAND	SLE-CR+460
A1	a1str	WETLAND	SLE-CR+500
A1	a1str	WETLAND	SLE-CR+600
A1	a1str	WETLAND	SLE-CR+640
A1	a1wtr	SW	MF01
A1	a1wtr	SW	MF02
A1	a1wtr	SW	MF03

TABLE 5-5
 SAMPLE LIST AREA A2
 CURRENT COMMERCIAL WORKERS AND ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scm	SOIL	A2-SB01
A2	a2scm	SOIL	A2-SB02
A2	a2scm	SOIL	A2-SB03
A2	a2scm	SOIL	A2-SB04
A2	a2scm	SOIL	A2-SS01
A2	a2scm	SOIL	A2-SS03
A2	a2scm	SOIL	A2-SS04
A2	a2scm	SOIL	DPS3
A2	a2scm	SOIL	DPS6
A2	a2scm	SOIL	FB E+00
A2	a2scm	SOIL	FB E+0050
A2	a2scm	SOIL	FB E+0100
A2	a2scm	SOIL	FB E+0150
A2	a2scm	SOIL	FB E+0200
A2	a2scm	SOIL	FB E+0250
A2	a2scm	SOIL	FB E+0350
A2	a2scm	SOIL	FB E+0450
A2	a2scm	SOIL	FB E+0500
A2	a2scm	SOIL	FB E+0550
A2	a2scm	SOIL	FB E+0600
A2	a2scm	SOIL	FB E+0700
A2	a2scm	SOIL	FB E+0800
A2	a2scm	SOIL	FB E+0900
A2	a2scm	SOIL	FB E+1000
A2	a2scm	SOIL	FB E+1100
A2	a2scm	SOIL	FB E+1200
A2	a2scm	SOIL	FB E+1400
A2	a2scm	SOIL	FB E+1500
A2	a2scm	SOIL	FB E+1550
A2	a2scm	SOIL	FB E+1600
A2	a2scm	SOIL	FB E+1650
A2	a2scm	SOIL	FB E+1690
A2	a2scm	SOIL	FBE+1300
A2	a2scm	SOIL	FBE+400
A2	a2scm	SOIL	MW-113B
A2	a2scm	SOIL	SDFB-001
A2	a2scm	SOIL	SDFB-002
A2	a2scm	SOIL	SDFB-003
A2	a2scm	SOIL	SDFB-004
A2	a2scm	SOIL	SPBG1 A+00
A2	a2scm	SOIL	SPBG1 B+00
A2	a2scm	SOIL	SPBG1 B+100
A2	a2scm	SOIL	SPBG1 B+200
A2	a2scm	SOIL	SPBG2 A-080
A2	a2scm	SOIL	SPBG2 A-160
A2	a2scm	SOIL	SPDPS-002
A2	a2scm	SOIL	SPDPS-004
A2	a2scm	SOIL	SPDPS-005
A2	a2scm	SOIL	SPDPS001
A2	a2scm	SOIL	SPEL-001
A2	a2scm	SOIL	SPEL-002

TABLE 5-5
SAMPLE LIST AREA A2
CURRENT COMMERCIAL WORKERS AND ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scm	SOIL	SPEL-003
A2	a2scm	SOIL	SPEL-004
A2	a2scm	SOIL	SPEL-005
A2	a2scm	SOIL	SPEL-006
A2	a2scm	SOIL	SPEL-007
A2	a2scm	SOIL	SPEL-008
A2	a2scm	SOIL	SPEL-009
A2	a2scm	SOIL	SPEL-010
A2	a2scm	SOIL	SPHM A+00
A2	a2scm	SOIL	SPHM A+100
A2	a2scm	SOIL	SPHM A+175
A2	a2scm	SOIL	SPHM AA+200
A2	a2scm	SOIL	SPHM AA+300
A2	a2scm	SOIL	SPHM AA+370
A2	a2scm	SOIL	SPHM B+00
A2	a2scm	SOIL	SPHM B+200
A2	a2scm	SOIL	SPHM B+300
A2	a2scm	SOIL	SPHM B+370
A2	a2scm	SOIL	SPHM-001
A2	a2scm	SOIL	SPHM-002
A2	a2scm	SOIL	SPHMB+100
A2	a2scm	SOIL	SPIM-001
A2	a2scm	SOIL	SPIM-002
A2	a2scm	SOIL	SPIM-003
A2	a2scm	SOIL	SPIM-004
A2	a2scm	SOIL	SPIM-005
A2	a2scm	SOIL	SPSC A+00
A2	a2scm	SOIL	SPSC A+050
A2	a2scm	SOIL	SPSC A+100
A2	a2scm	SOIL	SPSC A+150
A2	a2scm	SOIL	SPSC A+200
A2	a2scm	SOIL	SPSC A+250
A2	a2scm	SOIL	SPSC A+300
A2	a2scm	SOIL	SPSC A+350
A2	a2scm	SOIL	SPSC B+00
A2	a2scm	SOIL	SPSC C+00
A2	a2scm	SOIL	SPSC D+00
A2	a2scm	SOIL	SPSC E+00
A2	a2scm	SOIL	SPSC-001
A2	a2scm	SOIL	SPSC-002
A2	a2scm	SOIL	SPSCA+390
A2	a2scm	SOIL	SPTS-001
A2	a2scm	SOIL	SPTS-002
A2	a2scm	SOIL	SPTS-003
A2	a2scm	SOIL	SPTS-004
A2	a2scm	SOIL	SPTS-005
A2	a2scm	SOIL	SPTS-007
A2	a2scm	SOIL	SPTS006
A2	a2scm	SOIL	SPVM-001
A2	a2scm	SOIL	SPVM-002
A2	a2scm	SOIL	SPVM-003

TABLE 5-5
SAMPLE LIST AREA A2
CURRENT COMMERCIAL WORKERS AND ADOLESCENT TRESPASSERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scm	SOIL	SPVM-004
A2	a2scm	SOIL	SPVM-005
A2	a2scm	SOIL	SPVM-006
A2	a2scm	SOIL	SPVM-008
A2	a2scm	SOIL	SPVM-009
A2	a2scm	SOIL	SPVM-010
A2	a2scm	SOIL	SPVM007

TABLE 5-6
SAMPLE LIST AREA A2
FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scn	SOIL	A2-SB01
A2	a2scn	SOIL	A2-SB02
A2	a2scn	SOIL	A2-SB03
A2	a2scn	SOIL	A2-SB04
A2	a2scn	SOIL	A2-SB04A
A2	a2scn	SOIL	A2-SS01
A2	a2scn	SOIL	A2-SS03
A2	a2scn	SOIL	A2-SS04
A2	a2scn	SOIL	DPS3
A2	a2scn	SOIL	DPS6
A2	a2scn	SOIL	FB E+00
A2	a2scn	SOIL	FB E+0050
A2	a2scn	SOIL	FB E+0100
A2	a2scn	SOIL	FB E+0150
A2	a2scn	SOIL	FB E+0200
A2	a2scn	SOIL	FB E+0250
A2	a2scn	SOIL	FB E+0350
A2	a2scn	SOIL	FB E+0450
A2	a2scn	SOIL	FB E+0500
A2	a2scn	SOIL	FB E+0550
A2	a2scn	SOIL	FB E+0600
A2	a2scn	SOIL	FB E+0700
A2	a2scn	SOIL	FB E+0800
A2	a2scn	SOIL	FB E+0900
A2	a2scn	SOIL	FB E+1000
A2	a2scn	SOIL	FB E+1100
A2	a2scn	SOIL	FB E+1200
A2	a2scn	SOIL	FB E+1400
A2	a2scn	SOIL	FB E+1500
A2	a2scn	SOIL	FB E+1550
A2	a2scn	SOIL	FB E+1600
A2	a2scn	SOIL	FB E+1650
A2	a2scn	SOIL	FB E+1690
A2	a2scn	SOIL	FBE+1300
A2	a2scn	SOIL	FBE+400
A2	a2scn	SOIL	MW-113B
A2	a2scn	SOIL	SDFB-001
A2	a2scn	SOIL	SDFB-002
A2	a2scn	SOIL	SDFB-003
A2	a2scn	SOIL	SDFB-004
A2	a2scn	SOIL	SPBG1 A+00
A2	a2scn	SOIL	SPBG1 B+00
A2	a2scn	SOIL	SPBG1 B+100
A2	a2scn	SOIL	SPBG1 B+200
A2	a2scn	SOIL	SPBG2 A-080
A2	a2scn	SOIL	SPBG2 A-160
A2	a2scn	SOIL	SPDPS-002
A2	a2scn	SOIL	SPDPS-004
A2	a2scn	SOIL	SPDPS-005
A2	a2scn	SOIL	SPDPS001
A2	a2scn	SOIL	SPEL-001

TABLE 5-6
SAMPLE LIST AREA A2
FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scn	SOIL	SPEL-002
A2	a2scn	SOIL	SPEL-003
A2	a2scn	SOIL	SPEL-004
A2	a2scn	SOIL	SPEL-005
A2	a2scn	SOIL	SPEL-006
A2	a2scn	SOIL	SPEL-007
A2	a2scn	SOIL	SPEL-008
A2	a2scn	SOIL	SPEL-009
A2	a2scn	SOIL	SPEL-010
A2	a2scn	SOIL	SPHM A+00
A2	a2scn	SOIL	SPHM A+100
A2	a2scn	SOIL	SPHM A+175
A2	a2scn	SOIL	SPHM AA+200
A2	a2scn	SOIL	SPHM AA+300
A2	a2scn	SOIL	SPHM AA+370
A2	a2scn	SOIL	SPHM B+00
A2	a2scn	SOIL	SPHM B+200
A2	a2scn	SOIL	SPHM B+300
A2	a2scn	SOIL	SPHM B+370
A2	a2scn	SOIL	SPHM-001
A2	a2scn	SOIL	SPHM-002
A2	a2scn	SOIL	SPHMB+100
A2	a2scn	SOIL	SPIM-001
A2	a2scn	SOIL	SPIM-002
A2	a2scn	SOIL	SPIM-003
A2	a2scn	SOIL	SPIM-004
A2	a2scn	SOIL	SPIM-005
A2	a2scn	SOIL	SPSC A+00
A2	a2scn	SOIL	SPSC A+050
A2	a2scn	SOIL	SPSC A+100
A2	a2scn	SOIL	SPSC A+150
A2	a2scn	SOIL	SPSC A+200
A2	a2scn	SOIL	SPSC A+250
A2	a2scn	SOIL	SPSC A+300
A2	a2scn	SOIL	SPSC A+350
A2	a2scn	SOIL	SPSC B+00
A2	a2scn	SOIL	SPSC C+00
A2	a2scn	SOIL	SPSC D+00
A2	a2scn	SOIL	SPSC E+00
A2	a2scn	SOIL	SPSC-001
A2	a2scn	SOIL	SPSC-002
A2	a2scn	SOIL	SPSCA+390
A2	a2scn	SOIL	SPTS-001
A2	a2scn	SOIL	SPTS-002
A2	a2scn	SOIL	SPTS-003
A2	a2scn	SOIL	SPTS-004
A2	a2scn	SOIL	SPTS-005
A2	a2scn	SOIL	SPTS-007
A2	a2scn	SOIL	SPTS006
A2	a2scn	SOIL	SPVM-001
A2	a2scn	SOIL	SPVM-002

TABLE 5-6
 SAMPLE LIST AREA A2
 FUTURE COMMERCIAL WORKERS

AOC	RECEPTOR	MATRIX	BORING
A2	a2scn	SOIL	SPVM-003
A2	a2scn	SOIL	SPVM-004
A2	a2scn	SOIL	SPVM-005
A2	a2scn	SOIL	SPVM-006
A2	a2scn	SOIL	SPVM-008
A2	a2scn	SOIL	SPVM-009
A2	a2scn	SOIL	SPVM-010
A2	a2scn	SOIL	SPVM007
A2	a2scn	SOIL/PAVEMEN	A2-SS02
A2	a2scn	SOIL/PAVEMEN	A2-SS05
A2	a2scn	SOIL/PAVEMEN	MW-110D
A2	a2scn	SOIL/PAVEMEN	MW-111D
A2	a2scn	SOIL/PAVEMEN	MW-112B
A2	a2scn	SOIL/PAVEMEN	SP-SB1
A2	a2scn	SOIL/PAVEMEN	SP-SB2
A2	a2scn	SOIL/PAVEMEN	SP-SB3
A2	a2scn	SOIL/PAVEMEN	SP-SB4
A2	a2scn	SOIL/PAVEMEN	SP-SB5
A2	a2scn	SOIL/PAVEMEN	SP-SB6
A2	a2scn	SOIL/PAVEMEN	SP-SB7
A2	a2scn	SOIL/PAVEMEN	SP-SB8
A2	a2scn	SOIL/PAVEMEN	SP-SB9

TABLE 5-7
SAMPLE LIST AREA A3
RECREATIONAL USERS

AOC	RECEPTOR	MATRIX	BORING
A3	a3sfr	SEDIMENT	A3-SD01
A3	a3sfr	SEDIMENT	A3-SD02
A3	a3sfr	SEDIMENT	A3-SD03
A3	a3sfr	SEDIMENT	A3-SD04
A3	a3sfr	SEDIMENT	A3-SD05
A3	a3sfr	SEDIMENT	A3-SD06
A3	a3sfr	SEDIMENT	A3-SD07
A3	a3sfr	SEDIMENT	A3-SD08
A3	a3sfr	SEDIMENT	A3-SD09
A3	a3sfr	SEDIMENT	A3SD10
A3	a3sfr	SEDIMENT	SD01
A3	a3sfr	SEDIMENT	SD05
A3	a3sfr	SEDIMENT	SD06
A3	a3sfr	SEDIMENT	SD08W
A3	a3sfr	SEDIMENT	SD09W
A3	a3sfr	SEDIMENT	SD12
A3	a3sfr	SEDIMENT	SD13
A3	a3sfr	SEDIMENT	SD14
A3	a3sfr	SEDIMENT	SD18
A3	a3sfr	SEDIMENT	SD20-04
A3	a3sfr	SEDIMENT	SD21
A3	a3sfr	SEDIMENT	SD22
A3	a3sfr	SEDIMENT	SD23
A3	a3sfr	SEDIMENT	SD24
A3	a3sfr	SOIL	HU103A N720,W258
A3	a3sfr	SOIL	HU121A N915,W215
A3	a3sfr	SOIL	HU121A N920,W170
A3	a3sfr	SOIL	HU135A N950,W140
A3	a3sfr	SOIL	HU135A N995,W120
A3	a3sfr	SOIL	HU15A N296,W113
A3	a3sfr	SOIL	HU15A N305,W113
A3	a3sfr	SOIL	HU161 A+00
A3	a3sfr	SOIL	HU161 A+25
A3	a3sfr	SOIL	HU161 A+50
A3	a3sfr	SOIL	HU161 B+00
A3	a3sfr	SOIL	HU161 B+25
A3	a3sfr	SOIL	HU161 B+50
A3	a3sfr	SOIL	HU161 C+00
A3	a3sfr	SOIL	HU161 C+50
A3	a3sfr	SOIL	HU161A N1015,W115
A3	a3sfr	SOIL	HU161A N1050,W113
A3	a3sfr	SOIL	HU161A N1050,W154
A3	a3sfr	SOIL	HU171 A+25
A3	a3sfr	SOIL	HU171 B+25
A3	a3sfr	SOIL	HU171 C+00
A3	a3sfr	SOIL	HU171 C+25
A3	a3sfr	SOIL	HU171A N1133,W110
A3	a3sfr	SOIL	HU181A N1180,W148
A3	a3sfr	SOIL	HU191 A+00
A3	a3sfr	SOIL	HU191 B+00
A3	a3sfr	SOIL	HU191 C+00

TABLE 5-7
SAMPLE LIST AREA A3
RECREATIONAL USERS

AOC	RECEPTOR	MATRIX	BORING
A3	a3sfr	SOIL	HU191A N1200,W133
A3	a3sfr	SOIL	HU207A N1335,W145
A3	a3sfr	SOIL	HU231A N1540,W140
A3	a3sfr	SOIL	HU239A N1640,W150
A3	a3sfr	SOIL	HU263A N1695,W192
A3	a3sfr	SOIL	HU273A N1755,W210
A3	a3sfr	SOIL	HU59A N475,W190
A3	a3sfr	SOIL	SD03
A3	a3sfr	SOIL	SPBG2 A+050
A3	a3sfr	SOIL	SPBG2 A+267
A3	a3sfr	SOIL	SPBG2 B+050
A3	a3sfr	SOIL	SPBG2 B+150
A3	a3sfr	SOIL	SPBG2 B+267
A3	a3sfr	SOIL	SPBG2 C+050
A3	a3sfr	SOIL	SPBG2 C+150
A3	a3sfr	SOIL	SPBG2C+267
A3	a3sfr	SOIL	SPD G3
A3	a3sfr	SOIL	SPD G4
A3	a3sfr	SOIL	SPD H1
A3	a3sfr	SOIL	SPD H2
A3	a3sfr	SOIL	SPD H3
A3	a3sfr	SOIL	SPD H4
A3	a3sfr	SOIL	SPD I1
A3	a3sfr	SOIL	SPD I2
A3	a3sfr	SOIL	SPD I3
A3	a3sfr	SOIL	SPD I4
A3	a3sfr	SOIL	SPDA E222,S132
A3	a3sfr	SOIL	SPDA E228,N0
A3	a3sfr	SOIL	SPDA E275,S130
A3	a3sfr	SOIL	SPDA E280,S40
A3	a3sfr	SOIL	SPDA E325,S38
A3	a3sfr	SOIL	WA106A E375,S135
A3	a3sfr	SOIL	WA68A E212,S121
A3	a3sfr	SOIL	WA86A E280,S135
A3	a3sfr	SOIL	WA96A E347,S133
A3	a3sfr	WETLAND	A3-SB03
A3	a3sfr	WETLAND	HU103A N790,W245
A3	a3sfr	WETLAND	HU171 A+00
A3	a3sfr	WETLAND	HU171 B+00
A3	a3sfr	WETLAND	HU171 D+00
A3	a3sfr	WETLAND	HU171 E+00
A3	a3sfr	WETLAND	HU171A N1124,W149
A3	a3sfr	WETLAND	HU191A N1235,W165
A3	a3sfr	WETLAND	HU201A N1270,W160
A3	a3sfr	WETLAND	HU221A N1465,W140
A3	a3sfr	WETLAND	HU235A N1380,W182
A3	a3sfr	WETLAND	HU239A N1592,W215
A3	a3sfr	WETLAND	HU35A N408,W198
A3	a3sfr	WETLAND	HU75A N647,W285
A3	a3sfr	WETLAND	HU75A N686,W285
A3	a3sfr	WETLAND	SD02

TABLE 5-7
SAMPLE LIST AREA A3
RECREATIONAL USERS

AOC	RECEPTOR	MATRIX	BORING
A3	a3sfr	WETLAND	SD04
A3	a3sfr	WETLAND	SD15
A3	a3sfr	WETLAND	SD16
A3	a3sfr	WETLAND	SD17
A3	a3sfr	WETLAND	SD18
A3	a3sfr	WETLAND	SPD A1
A3	a3sfr	WETLAND	SPD B1
A3	a3sfr	WETLAND	SPD B2
A3	a3sfr	WETLAND	SPD C1
A3	a3sfr	WETLAND	SPD C2
A3	a3sfr	WETLAND	SPD C3
A3	a3sfr	WETLAND	SPD D1
A3	a3sfr	WETLAND	SPD D2
A3	a3sfr	WETLAND	SPD D3
A3	a3sfr	WETLAND	SPD E1
A3	a3sfr	WETLAND	SPD E2
A3	a3sfr	WETLAND	SPD E3
A3	a3sfr	WETLAND	SPD F1
A3	a3sfr	WETLAND	SPD F2
A3	a3sfr	WETLAND	SPD F3
A3	a3sfr	WETLAND	SPD G1
A3	a3sfr	WETLAND	SPD G2
A3	a3sfr	WETLAND	SPDA E310,S100
A3	a3sfr	WETLAND	SPDA E360,S250
A3	a3wfr	SW	SD01
A3	a3wfr	SW	SD05
A3	a3wfr	SW	SD06
A3	a3wfr	SW	SD12
A3	a3wfr	SW	SD13
A3	a3wfr	SW	SD14
A3	a3wfr	SW	SD20-04
A3	a3wfr	SW	SD21
A3	a3wfr	SW	SD22
A3	a3wfr	SW	SD23
A3	a3wfr	SW	SD24

TABLE F.5-8 A-1

AREA A-1

SAMPLE LIST FOR HOT SPOT ANALYSIS

Commercial Workers
SURFACE SOIL

Recreational Users
SURFACE SOIL

Trespassers
SURFACE SEDIMENTS/WETLAND SOILS/SOILS

A1-SB03
A1-SB11
MFP-5
MF E+080
MF E+100
MF F+050
MFP-1
MFP-2
PP EF+050
PP EF+100

A1-SS01
MFP-6
MW-102D
EB728A N247,E46
EB728A N277,E37
BP68A S535,E172
BP70A S485,E160
BP70A S528,E172
BP78A S453,E162
BP96A S342,E166
BP96A S365,E168
MF A+400
MF AZ+300
MF AZ+365

A1-SD02
A1-SD03
MF02
MF03
SLE-CR+100
SLE-CR+200
SLE-CR+300
SLE-CR+400
SLE-CR+460
SLE-CR+500

TABLE F.5-9 A-2

AREA A-2 SAMPLE LIST FOR HOT SPOT ANALYSIS

Commercial Workers
EXPOSED SURFACE SOIL

A2-SB01
A2-SS02
A2-SS03
DPS3
DPS6
MW-112B
SP-SB2
SP-SB3
SPCA+390
SPDPS-001
SPDPS-002
SPDPS-004
SPDPS-005
SPHM A+175
SPHM AA+200
SPHM AA+300
SPHM AA+370
SPHM-002
SPHM B+200
SPHM B+300
SPHM B+370
SPSC-002
SPSC A+150
SPSC A+200
SPSC A+250
SPSC A+300
SPSC A+350
SPCA+390
SPDPS-003

Appendix F.6

**Sample Calculations for UCL
Statistics**

TEQ Calculation Check

9/27/99

Checked by
Gary Stearns

NSAMPLE	PARAMETER	FRACTION	LAB_RESULT	QUAL	UNITS	TEF	DETECT	DETECT x TEF	1/2 ND	1/2 ND x TEF		
MFP-1	1,2,3,4,6,7,8-HpCDD	DIOXI	5.4	J	UG/KG	0.01	5.4	0.054				
MFP-1	1,2,3,4,6,7,8-HpCDF	DIOXI	19	J	UG/KG	0.01	19	0.019				
MFP-1	1,2,3,4,7,8,9-HpCDF	DIOXI	0.0208	UJ	UG/KG	0.01			0.0104	0.000104		
MFP-1	1,2,3,4,7,8-HxCDD	DIOXI	0.0229	UJ	UG/KG	0.1			0.01145	0.001145		
MFP-1	1,2,3,4,7,8-HxCDF	DIOXI	0.0216	UJ	UG/KG	0.1			0.0108	0.00108		
MFP-1	1,2,3,6,7,8-HxCDD	DIOXI	17	J	UG/KG	0.1	1.7	0.17				
MFP-1	1,2,3,6,7,8-HxCDF	DIOXI	14	J	UG/KG	0.1	1.4	0.14				
MFP-1	1,2,3,7,8,9-HxCDD	DIOXI	0.1	J	UG/KG	0.1	0.1	0.01				
MFP-1	1,2,3,7,8,9-HxCDF	DIOXI	0.028	UJ	UG/KG	0.1			0.014	0.0014		
MFP-1	1,2,3,7,8-PeCDD	DIOXI	24	J	UG/KG	1	2.4	2.4				
MFP-1	1,2,3,7,8-PeCDF	DIOXI	22	J	UG/KG	0.05	2.2	0.11				
MFP-1	2,3,4,6,7,8-HxCDF	DIOXI	0.0184	UJ	UG/KG	0.1			0.0092	0.00092		
MFP-1	2,3,4,7,8-PeCDF	DIOXI	0.1	J	UG/KG	0.5	0.1	0.05				
MFP-1	2,3,7,8-TCDD	DIOXI	0.0161	UJ	UG/KG	1			0.00805	0.00805		
MFP-1	2,3,7,8-TCDF	DIOXI	0.8	J	UG/KG	0.1	0.8	0.08				
MFP-1	OCDD	DIOXI	6.8	J	UG/KG	0.0001	6.8	0.00068				
MFP-1	OCDF	DIOXI	2.1	J	UG/KG	0.0001	2.1	0.00021				
Toxicity Equivalency								3.03389	+	0.012699	=	3.046589 ✓

MFP-1 is grouped in receptors A1SCN, A1SFR, and A1STR. All 17 dioxin parameters with TEFs were detected at least once in receptors A1SCN, A1SFR, or A1STR. All 17 parameters were therefore used in the calculation of the TEQ for MFP-1.

APPENDIX F.6

STATISTICS AND EXPOSURE POINT CONCENTRATIONS

1 INTRODUCTION

This appendix presents the methodology for statistical analysis of environmental data collected at the site. Tables 1 through 4 are referenced statistical tables.

The statistical methods presented were used to develop summary statistics (e.g., range, mean, standard deviation, 95% Upper Confidence Limits) which describe environmental contaminant concentrations at the facility.

The statistical methods presented were based on:

1. EPA Publication 9285.7-081. "Supplemental Guidance to RAGS: Calculating the Concentration Term." May 1992.
2. Gilbert, Richard O., Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Company. New York, New York. 1987.
3. Cochran, William G. and Snedecor, George W. Statistical Methods. The Iowa State University Press. 1980.

2 LIMIT OF DETECTION

In the chemical analysis of environmental samples, some analytes may be present at concentrations which are below the sample quantitation limit (SQL) of the analytical procedure. The results are generally reported as not detected (rather than zero), and the appropriate limit of detection is given. The nondetects were replaced with the SQL divided by two prior to statistical analysis. Clearly, if all the observations are nondetect results, no statistical analysis is warranted. In addition, field duplicate results were processed prior to use in statistical analysis. The maximum value was used for solid matrix duplicates. The average value was used for aqueous duplicates.

3 STATISTICAL METHODS

3.1.1 The Shapiro and Wilk "W-test"

The data must be analyzed to determine whether they were drawn from an underlying normal, lognormal or undetermined distribution. A number of statistical evaluations may be used to determine which, if either, of the distributions are exhibited by a given data set. As recommended by the EPA, the Shapiro and Wilk "W-test" (for sample sets ≤ 50) and the Shapiro-Francia "W-test" (for sample sets > 50) will be used to determine whether the data are normally or lognormally distributed (EPA, 1992).

The null hypothesis (H_0) that is tested is that the population has a normal (or lognormal when the data is log-transformed) distribution.

The alternate hypothesis (H_A) is that the population does not have a normal (or lognormal when the data is log-transformed) distribution.

The equation for the W statistic is:

$$W = \left[\frac{b}{S_R \sqrt{n-1}} \right]^2$$

where

$$b = \sum_{i=1}^k a_i (x_{[n+1]} - x) = \sum_{i=1}^k b_i$$

and the coefficients $a_1, a_2, a_3, \dots, a_k$ are found in Table 1.

A "W" statistic (W_{calc}) is computed for a data set (or a log transformed data set) and compared to a test statistic (W_{test}). The test statistic is determined at the 5% significance level from Table 2. If $W_{\text{calc}} > W_{\text{test}}$, then the null hypothesis is not rejected (i.e. the data are assumed to be normally distributed [or lognormally distributed if log transformed data are tested]). If $W_{\text{calc}} < W_{\text{test}}$, then the null hypothesis is rejected and the alternative hypothesis is accepted (i.e., the data are not assumed to be normally distributed [or not log-normally distributed if log transformed data are tested]).

3.1.2 Representative Concentration for a Normal Distribution (Upper One-sided 95% Confidence Limit for the Arithmetic Mean)

The $100(1-\alpha)$ Upper Confidence Limit ($UCL_{100(1-\alpha)}$) of the population mean (\bar{x}) is often used as a descriptive statistic for environmental data. When $\alpha = 0.05$, the 95 percent upper confidence limit (one-tailed test) may be calculated as follows:

$$UCL_{0.95} = \bar{x} + t_{0.95, n-1} \frac{S_x}{\sqrt{n}}$$

$$\bar{X} = \frac{1}{n} \sum_{i=1}^n x_i = \text{arithmetic mean}$$

$$S_x = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}} = \text{the sample standard deviation}$$

where: $t_{0.95, n-1}$ = Value from *t* - distribution (Table 4)

It should be noted that the 95 percent confidence interval for a second sample of size n drawn from the same population will most likely not be the same as that for the first sample. In theory if an interval estimate is calculated for the means of a very large set of samples of size n , the true population mean will be within 95 percent of this limit.

3.1.3 Representative Concentration for a Lognormal Distribution (Upper One-sided 95% Confidence Limit for the Geometric Mean)

The following formula may be used to calculate the upper 95% confidence interval ($UCL_{95\%}$) for the geometric mean (x_g):

$$UCL_{0.95} = \exp \left[\bar{y} + 0.5 (S_y)^2 + \frac{S_y (H_{0.95,n})}{\sqrt{n}} \right]$$

where: \bar{y} = arithmetic mean of the log-transformed data, $y = \ln(x)$

S_y = standard deviation of y

$H_{0.95,n}$ = factor for sample size n (Table 3)

4 HANDLING OF MULTIPLE ROUND SAMPLES

Multiple round samples are samples collected from the same location on different dates. The individual multiple round sample results were used in the determination of the contaminants of potential concern. The average of multiple round sample results was used to calculate the exposure point concentrations.

Table 2
PERCENTAGE POINTS OF THE W TEST FOR N=3 to 50

n	0.01	0.05
3	0.753	0.767
4	0.687	0.748
5	0.686	0.762
6	0.713	0.788
7	0.730	0.803
8	0.749	0.818
9	0.764	0.829
10	0.781	0.842
11	0.792	0.850
12	0.805	0.859
13	0.814	0.866
14	0.825	0.874
15	0.835	0.881
16	0.844	0.887
17	0.851	0.892
18	0.858	0.897
19	0.863	0.901
20	0.868	0.905
21	0.873	0.908
22	0.878	0.911
23	0.881	0.914
24	0.884	0.916
25	0.888	0.918
26	0.891	0.920
27	0.894	0.923
28	0.896	0.924
29	0.898	0.926
30	0.900	0.927

n	0.01	0.05
31	0.902	0.929
32	0.904	0.930
33	0.906	0.931
34	0.908	0.933
35	0.910	0.934
36	0.912	0.935
37	0.914	0.936
38	0.916	0.938
39	0.917	0.939
40	0.919	0.940
41	0.920	0.941
42	0.922	0.942
43	0.923	0.943
44	0.924	0.944
45	0.926	0.945
46	0.927	0.945
47	0.928	0.946
48	0.929	0.947
49	0.929	0.947
50	0.930	0.947

TABLE 3
VALUES OF $H_{0.95}$ FOR COMPUTING A ONE-SIDED
UPPER 95% CONFIDENCE LIMIT ON A LOGNORMAL MEAN

Sy/n	3	5	7	10	12	15	21	31	51	101	201	301	401	601
0.10	2.75	2.035	1.886	1.802	1.775	1.749	1.722	1.701	1.684	1.670	1.662	1.659	1.658	1.658
0.20	3.295	2.198	1.992	1.881	1.843	1.809	1.771	1.742	1.718	1.697	1.685	1.680	1.677	1.674
0.30	4.109	2.402	2.125	1.977	1.927	1.882	1.833	1.793	1.761	1.733	1.716	1.709	1.705	1.700
0.40	5.22	2.651	2.282	2.089	2.026	1.968	1.905	1.856	1.813	1.770	1.755	1.746	1.740	1.734
0.50	6.495	2.947	2.465	2.220	2.141	2.068	1.989	1.928	1.876	1.830	1.802	1.790	1.784	1.778
0.60	7.807	3.287	2.673	2.368	2.271	2.181	2.085	2.010	1.946	1.891	1.857	1.843	1.835	1.825
0.70	9.12	3.682	2.904	2.532	2.414	2.306	2.191	2.102	2.025	1.960	1.919	1.902	1.892	1.881
0.80	10.43	4.062	3.155	2.710	2.570	2.443	2.307	2.202	2.112	2.035	1.988	1.968	1.957	1.944
0.90	11.74	4.478	3.420	2.902	2.738	2.589	2.432	2.310	2.206	2.117	2.062	2.040	2.027	2.012
1.00	13.05	4.905	3.698	3.103	2.915	2.744	2.564	2.423	2.306	2.205	2.143	2.117	2.102	2.085
1.25	16.33	6.001	4.426	3.639	3.389	3.163	2.923	2.737	2.580	2.447	2.364	2.330	2.310	2.288
1.50	19.6	7.12	5.184	4.207	3.896	3.612	3.311	3.077	2.881	2.713	2.609	2.566	2.542	2.514
1.75	22.87	8.25	5.960	4.795	4.422	4.081	3.719	3.437	3.200	2.997	2.872	2.820	2.791	2.757
2.00	26.14	9.387	6.747	5.396	4.962	4.564	4.141	3.912	3.533	3.295	3.148	3.088	3.053	3.013
2.50	32.69	11.673	8.339	6.621	6.067	5.557	5.013	4.588	4.228	3.920	3.729	3.650	3.605	3.553
3.00	39.23	13.97	9.945	7.864	7.191	6.570	5.907	5.388	4.947	4.569	4.334	4.238	4.183	4.119
3.50	45.77	16.27	11.580	9.118	8.326	7.598	6.815	6.201	5.681	5.233	4.958	4.842	4.776	4.700
4.00	52.31	18.58	13.180	10.380	9.469	8.630	7.731	7.024	6.424	5.908	5.588	5.456	5.380	5.293
4.50	58.85	20.88	14.800	11.640	10.620	9.669	8.652	7.854	7.174	6.590	6.227	6.077	5.991	5.892
5.00	65.39	23.19	16.430	12.910	11.770	10.710	9.579	8.688	7.929	7.277	6.871	6.704	6.608	6.497
6.00	78.47	27.81	19.680	15.450	14.080	12.810	11.440	10.360	9.449	8.661	8.170	7.988	7.852	7.718
7.00	91.55	32.43	22.940	18.000	16.390	14.900	13.310	12.050	10.980	10.050	9.479	9.242	9.106	8.949
8.00	104.6	37.06	26.200	20.550	18.710	17.010	15.180	13.740	12.510	11.450	10.790	10.520	10.370	10.190
9.00	117.7	41.68	29.460	23.100	21.030	19.110	17.050	15.430	14.050	12.850	12.110	11.810	11.630	11.430
10.00	130.8	46.31	32.730	25.660	23.350	21.220	18.930	17.130	15.590	14.260	13.430	13.100	12.900	12.670

TABLE 4
PERCENTILES OF STUDENT'S t-DISTRIBUTION WITH n DEGREES OF FREEDOM

nF	0.60	0.75	0.90	0.95	0.975	0.99	0.995	0.9995
1	0.325	1.000	3.078	6.314	12.706	31.821	63.656	636.578
2	0.289	0.816	1.886	2.920	4.303	6.965	9.925	31.600
3	0.277	0.765	1.638	2.353	3.182	4.541	5.841	12.924
4	0.271	0.741	1.533	2.132	2.776	3.747	4.604	8.610
5	0.267	0.727	1.476	2.015	2.571	3.365	4.032	6.869
6	0.265	0.718	1.440	1.943	2.447	3.143	3.707	5.959
7	0.263	0.711	1.415	1.895	2.365	2.998	3.499	5.408
8	0.262	0.706	1.397	1.860	2.306	2.896	3.355	5.041
9	0.261	0.703	1.383	1.833	2.262	2.821	3.250	4.781
10	0.260	0.700	1.372	1.812	2.228	2.764	3.169	4.587
11	0.260	0.697	1.363	1.796	2.201	2.718	3.106	4.437
12	0.259	0.695	1.356	1.782	2.179	2.681	3.055	4.318
13	0.259	0.694	1.350	1.771	2.160	2.650	3.012	4.221
14	0.258	0.692	1.345	1.761	2.145	2.624	2.977	4.140
15	0.258	0.691	1.341	1.753	2.131	2.602	2.947	4.073
16	0.258	0.690	1.337	1.746	2.120	2.583	2.921	4.015
17	0.257	0.689	1.333	1.740	2.110	2.567	2.898	3.965
18	0.257	0.688	1.330	1.734	2.101	2.552	2.878	3.922
19	0.257	0.688	1.328	1.729	2.093	2.539	2.861	3.883
20	0.257	0.687	1.325	1.725	2.086	2.528	2.845	3.850
21	0.257	0.686	1.323	1.721	2.080	2.518	2.831	3.819
22	0.256	0.686	1.321	1.717	2.074	2.508	2.819	3.792
23	0.256	0.685	1.319	1.714	2.069	2.500	2.807	3.768
24	0.256	0.685	1.318	1.711	2.064	2.492	2.797	3.745
25	0.256	0.684	1.316	1.708	2.060	2.485	2.787	3.725
26	0.256	0.684	1.315	1.706	2.056	2.479	2.779	3.707
27	0.256	0.684	1.314	1.703	2.052	2.473	2.771	3.689
28	0.256	0.683	1.313	1.701	2.048	2.467	2.763	3.674
29	0.256	0.683	1.311	1.699	2.045	2.462	2.756	3.660
30	0.256	0.683	1.310	1.697	2.042	2.457	2.750	3.648
40	0.255	0.681	1.303	1.684	2.021	2.423	2.704	3.551
60	0.254	0.679	1.296	1.671	2.000	2.390	2.660	3.460
120	0.254	0.677	1.289	1.658	1.980	2.358	2.617	3.373
1,000,000	0.253	0.674	1.282	1.645	1.960	2.326	2.576	3.290

F = 1 - α

CLIENT RAYMARK OUB		JOB NUMBER	
SUBJECT CHECK - UCL CALCULATIONS ARSENIC SOIL			
BASED ON CONSTRUCTION SCENARIO		DRAWING NUMBER AREA A2	
BY GARY GLENNON	CHECKED BY	APPROVED BY	DATE 6/1/98

Interpolation of H_{0.95} Table

$$\begin{array}{llll}
 n = 49 & S = 0.6308 & & \\
 n_1 = 31 & S_1 = 0.60 & H_1 = 2.010 & H_2 = 1.946 \\
 n_2 = 51 & S_2 = 0.70 & H_3 = 2.102 & H_4 = 2.025
 \end{array}$$

$$\begin{aligned}
 H_{\text{interpol 1}} &= \left(\left(\frac{H_2 - H_1}{n_2 - n_1} \right) \times (n - n_1) \right) + H_1 \\
 &= \left(\left(\frac{1.946 - 2.010}{51 - 31} \right) \times (49 - 31) \right) + 2.010 \\
 &= 1.9524
 \end{aligned}$$

$$\begin{aligned}
 H_{\text{interpol 2}} &= \left(\left(\frac{H_4 - H_3}{n_2 - n_1} \right) \times (n - n_1) \right) + H_3 \\
 &= \left(\left(\frac{2.025 - 2.102}{51 - 31} \right) \times (49 - 31) \right) + 2.102 \\
 &= 2.0327
 \end{aligned}$$

$$H = \left(\left(\frac{H_{\text{interpol 2}} - H_{\text{interpol 1}}}{S_2 - S_1} \right) \times (S - S_1) \right) + H_{\text{interpol 1}}$$

Interpolation of t

$$\begin{array}{ll}
 df = 48 & \\
 df_1 = 40 & t_1 = 1.684 \\
 df_2 = 60 & t_2 = 1.671
 \end{array}$$

$$\begin{aligned}
 t &= t_1 + \left(\frac{df - df_1}{df_2 - df_1} \right) \times (t_2 - t_1) \\
 &= 1.684 + \left(\frac{48 - 40}{60 - 40} \right) \times (1.671 - 1.684) = 1.6788
 \end{aligned}$$

CLIENT		JOB NUMBER	
SUBJECT			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

Calculation of UCL-NORMAL

$$\begin{aligned} \bar{x} &= 6.5184 \\ t &= 1.6788 \\ s &= 6.3446 \\ n &= 49 \end{aligned}$$

$$\begin{aligned} UCL-N &= \bar{x} + t (s/\sqrt{n}) \\ &= 6.5184 + 1.6788 (6.3446 / \sqrt{49}) \\ &= 8.0400 \end{aligned}$$

Calculation of UCL-LOGNORMAL

$$\begin{aligned} \bar{x} &= 1.6470 \\ H &= 0.6308 \\ s &= 0.6308 \\ n &= 49 \end{aligned}$$

$$\begin{aligned} UCL-LOGNORMAL &= e^{(\bar{x} + 0.5s^2 + sH / \sqrt{n-1})} \\ &= e^{(1.6470 + 0.5(0.6308)^2 + (0.6308 \times 1.977) / \sqrt{49-1})} \\ &= 7.5834 \end{aligned}$$

A2scn.xls

PARAMETER	UNITS	DETECTS	COUNT	AVERAGE	W NORMAL	W LOGNORMAL	W TEST	DISTRIBUTION	UCL - NORMAL	UCL - LOGNORMAL	DETECTS - MAX	EPC	EPC STAT
1,2,3,4,6,7,8-HPCDD	UG/KG	8	23	0.3394	0.7081	0.8874	0.9140	LOGNORMAL	0.4878	5.83E-01	1.715	0.5827	95% UCL-T
1,2,3,4,6,7,8-HPCDF	UG/KG	9	23	0.8856	0.8220	0.9870	0.9140	LOGNORMAL	1.3735	2.22E+00	5.193	2.2188	95% UCL-T
1,2,3,4,7,8-HPCDF	UG/KG	5	23	0.2314	0.8403	0.8811	0.9140	UNDEFINED	0.3184	3.70E+00	0.105	0.105	Max
1,2,3,4,7,8-HXCDD	UG/KG	5	23	0.1771	0.8800	0.8450	0.9140	UNDEFINED	0.2408	4.81E+00	0.0159	0.0159	Max
1,2,3,4,7,8-HXCDF	UG/KG	10	23	0.5875	0.8197	0.9580	0.9140	LOGNORMAL	0.8757	1.40E+00	3.78	1.309	95% UCL-T
1,2,3,6,7,8-HXCDD	UG/KG	5	23	0.1797	0.8458	0.7928	0.9140	UNDEFINED	0.2308	2.74E+00	0.0879	0.0879	Max
1,2,3,6,7,8-HXCDF	UG/KG	7	23	0.2127	0.5110	0.8224	0.9140	UNDEFINED	0.3221	9.79E-01	1.54	0.9785	95% UCL-T
1,2,3,7,8-HXCDD	UG/KG	5	23	0.1759	0.8888	0.8311	0.9140	UNDEFINED	0.2348	1.95E+00	0.0745	0.0745	Max
1,2,3,7,8-HXCDF	UG/KG	2	23	0.0792	0.8682	0.8153	0.9140	UNDEFINED	0.1078	2.88E+00	0.0096	0.0096	Max
1,2,3,7,8-PECDD	UG/KG	4	23	0.1950	0.8384	0.8012	0.9140	UNDEFINED	0.2881	1.89E+01	0.0208	0.0208	Max
1,2,3,7,8-PECDF	UG/KG	5	23	0.2798	0.5001	0.8227	0.9140	LOGNORMAL	0.4744	1.93E+00	2.544	1.8327	95% UCL-T
2,3,4,6,7,8-HXCDD	UG/KG	10	23	0.3431	0.5170	0.9507	0.9140	LOGNORMAL	0.5388	7.79E-01	2.858	0.7783	95% UCL-T
2,3,4,7,8-PECDF	UG/KG	9	23	0.4737	0.4692	0.9798	0.9140	LOGNORMAL	0.8158	1.11E+00	4.854	1.1088	95% UCL-T
OCDD	UG/KG	18	23	2.8527	0.7302	0.8487	0.9140	LOGNORMAL	3.8181	4.84E+00	12.83	4.8395	95% UCL-T
OCDF	UG/KG	9	23	0.8822	0.7428	0.8588	0.9140	LOGNORMAL	0.8838	1.74E+00	3.21	1.7385	95% UCL-T
TOTAL HPCDD	UG/KG	8	23	0.4538	0.5880	0.8883	0.9140	LOGNORMAL	0.8832	7.80E-01	3.001	0.7587	95% UCL-T
TOTAL HPCDF	UG/KG	9	23	0.9940	0.8380	0.9893	0.9140	LOGNORMAL	1.5528	2.87E+00	8.004	2.8888	95% UCL-T
TOTAL HXCDD	UG/KG	8	23	0.3029	0.5278	0.8451	0.9140	LOGNORMAL	0.4834	5.45E-01	2.29	0.5454	95% UCL-T
TOTAL HXCDF	UG/KG	10	22	1.4886	0.5188	0.9080	0.9110	UNDEFINED	2.8602	6.48E+00	13.885	6.4574	95% UCL-T
TOTAL PECDD	UG/KG	7	23	0.4911	0.4688	0.8238	0.9140	UNDEFINED	0.8443	1.13E+01	4.59	4.59	Max
TOTAL PECDF	UG/KG	11	23	1.5352	0.4068	0.8788	0.9140	UNDEFINED	2.995	5.23E+00	19.228	5.2338	95% UCL-T
TOTAL TCDD	UG/KG	4	23	0.8138	0.3658	0.8504	0.9140	UNDEFINED	1.2203	5.38E+01	0.0049	0.0049	Max
TOTAL TCDF	UG/KG	8	23	0.8130	0.5282	0.8817	0.9140	LOGNORMAL	1.4091	4.42E+00	8.028	4.4188	95% UCL-T
TOXICITY EQUIVALENCY FACTOR	UG/KG	19	19	0.3832	0.4981	0.9152	0.9010	LOGNORMAL	0.7258	2.11E+01	3.882	3.882	Max
ASBESTOS	%	141	189	5.5578	0.4948	0.9004	0.9870	UNDEFINED	8.9457	1.57E+01	75	15.8823	95% UCL-T
ALUMINUM	MG/KG	49	49	8812.2449	0.8487	0.9872	0.9470	LOGNORMAL	10446.5274	1.08E+04	20000	10575.1292	95% UCL-T
ARSENIC	MG/KG	40	49	8.5184	0.5851	0.9705	0.9470	LOGNORMAL	8.04	7.58E+00	44.5	7.5838	95% UCL-T
BARIUM	MG/KG	47	49	1395.4531	0.8858	0.8995	0.9470	UNDEFINED	2037.0847	3.18E+03	10400	3182.4448	95% UCL-T
BERYLLIUM	MG/KG	30	47	0.4130	0.8388	0.8845	0.9480	UNDEFINED	0.4888	5.34E-01	0.92	0.5344	95% UCL-T
CADMIUM	MG/KG	17	49	0.8437	0.8290	0.9543	0.9470	LOGNORMAL	0.829	8.09E-01	4.8	0.809	95% UCL-T
CALCIUM	MG/KG	48	49	8297.3489	0.5853	0.8862	0.9470	UNDEFINED	11370.752	1.08E+04	54800	10571.3754	95% UCL-T
CHROMIUM	MG/KG	49	49	47.5082	0.7503	0.9142	0.9470	UNDEFINED	58.0134	5.84E+01	208	58.3888	95% UCL-T
COBALT	MG/KG	48	49	0.8808	0.8270	0.9704	0.9470	LOGNORMAL	10.1503	1.01E+01	25.4	10.1011	95% UCL-T
COPPER	MG/KG	94	138	2530.3543	0.4542	0.9158	0.9870	UNDEFINED	3375.2132	3.58E+03	40000	3584.3347	95% UCL-T
IRON	MG/KG	49	49	17778.1833	0.9357	0.8878	0.9470	LOGNORMAL	18978.4828	1.82E+04	32300	18187.3295	95% UCL-T
LEAD	MG/KG	208	230	1395.5735	0.4129	0.9300	0.9870	UNDEFINED	1775.0582	1.58E+03	24000	1559.1762	95% UCL-T
MAGNESIUM	MG/KG	49	49	9394.2857	0.8528	0.9413	0.9470	UNDEFINED	11798.4158	1.13E+04	48900	11319.423	95% UCL-T
MANGANESE	MG/KG	49	49	237.8308	0.8021	0.9211	0.9470	UNDEFINED	271.588	2.80E+02	1050	259.5142	95% UCL-T
MERCURY	MG/KG	21	49	0.1972	0.5173	0.8848	0.9470	UNDEFINED	0.2738	2.30E-01	1.8	0.2288	95% UCL-T
NICKEL	MG/KG	49	49	53.4122	0.5719	0.8030	0.9470	UNDEFINED	71.5821	8.44E+01	389	84.3885	95% UCL-T
POTASSIUM	MG/KG	47	49	1547.7755	0.8301	0.9513	0.9470	LOGNORMAL	1740.1185	1.88E+03	3840	1858.3218	95% UCL-T
SELENIUM	MG/KG	8	49	0.5501	0.8110	0.9382	0.9470	UNDEFINED	0.8488	8.72E-01	1.7	0.8718	95% UCL-T
SILVER	MG/KG	7	49	0.5080	0.8340	0.8838	0.9470	UNDEFINED	0.8388	5.92E-01	2.8	0.5915	95% UCL-T
SODIUM	MG/KG	25	47	1882.9149	0.4478	0.8230	0.9480	UNDEFINED	2834.412	2.02E+03	17000	2021.2101	95% UCL-T
THALLIUM	MG/KG	2	48	0.5482	0.7844	0.9408	0.9470	UNDEFINED	0.8888	7.82E-01	2.8	0.7823	95% UCL-T
VANADIUM	MG/KG	49	49	30.5755	0.9858	0.7873	0.9470	NORMAL	33.2274	3.88E+01	60.8	33.2274	95% UCL-N
ZINC	MG/KG	49	49	480.0327	0.5888	0.8220	0.9470	UNDEFINED	637.9314	8.50E+02	3280	850.3858	95% UCL-T
1,1,2,2-TETRACHLOROETHANE	UG/KG	1	22	14.3182	0.5247	0.7107	0.9110	UNDEFINED	21.0258	1.88E+01	33	18.8202	95% UCL-T
1,2-DICHLOROETHENE (TOTAL)	UG/KG	2	22	45.8091	0.2783	0.5808	0.9110	UNDEFINED	102.35	4.47E+01	730	44.7311	95% UCL-T
2-BUTANONE	UG/KG	4	22	22.3409	0.7413	0.8408	0.9110	UNDEFINED	30.8688	3.88E+01	81	38.8278	95% UCL-T
2-HEXANONE	UG/KG	1	22	15.0809	0.5493	0.7312	0.9110	UNDEFINED	21.9390	2.02E+01	14	14	Max
4-METHYL-2-PENTANONE	UG/KG	4	22	14.1138	0.5580	0.8184	0.9110	UNDEFINED	21.1121	2.10E+01	8	8	Max
ACETONE	UG/KG	8	22	154.3884	0.5102	0.9537	0.9110	LOGNORMAL	288.2118	5.25E+02	1400	524.893	95% UCL-T
BENZENE	UG/KG	2	22	80.7500	0.3248	0.8373	0.9110	UNDEFINED	175.9151	8.87E+01	1200	98.707	95% UCL-T
CARBON DISULFIDE	UG/KG	10	22	29.1138	0.5083	0.9128	0.9110	LOGNORMAL	50.0178	8.89E+01	280	85.8093	95% UCL-T
CHLOROBENZENE	UG/KG	5	22	18.7955	0.5952	0.7470	0.9110	UNDEFINED	27.8484	2.78E+01	84	27.8455	95% UCL-T
ETHYL BENZENE	UG/KG	8	22	70.4773	0.3378	0.7082	0.9110	UNDEFINED	148.414	1.05E+02	1000	104.5508	95% UCL-T
METHYLENE CHLORIDE	UG/KG	2	22	18.8818	0.8115	0.7881	0.9110	UNDEFINED	28.8818	2.72E+01	77	27.1888	95% UCL-T
TOLUENE	UG/KG	5	22	84.3408	0.3588	0.8847	0.9110	UNDEFINED	187.0783	1.58E+02	1300	158.0274	95% UCL-T
TRICHLOROETHENE	UG/KG	2	22	27.8384	0.3474	0.8178	0.9110	UNDEFINED	83.2813	3.28E+01	330	32.8138	95% UCL-T
VINYL CHLORIDE	UG/KG	1	22	15.2045	0.5305	0.8885	0.9110	UNDEFINED	22.3537	2.03E+01	91	20.3888	95% UCL-T

TABLE 3
VALUES OF $H_{0.95}$ FOR COMPUTING A ONE-SIDED
UPPER 95% CONFIDENCE LIMIT ON A LOGNORMAL MEAN

$H_{interpol 2} = 1.9524$

$n = 49$

Sy/n	3	5	7	10	12	15	21	31	51	101	201	301	401	601
0.10	2.75	2.035	1.886	1.802	1.775	1.749	1.722	1.701	1.684	1.670	1.662	1.659	1.658	1.656
0.20	3.295	2.198	1.992	1.881	1.843	1.809	1.771	1.742	1.718	1.697	1.685	1.680	1.677	1.674
0.30	4.109	2.402	2.125	1.977	1.927	1.882	1.833	1.793	1.761	1.733	1.716	1.709	1.705	1.700
0.40	5.22	2.651	2.282	2.089	2.026	1.968	1.905	1.856	1.813	1.770	1.755	1.746	1.740	1.734
0.50	6.495	2.947	2.465	2.220	2.141	2.068	1.989	1.928	1.876	1.830	1.802	1.790	1.784	1.776
0.60	7.807	3.287	2.673	2.368	2.271	2.181	2.085	2.010	1.946	1.891	1.857	1.843	1.835	1.825
0.70	9.12	3.662	2.904	2.532	2.414	2.306	2.191	2.102	2.025	1.960	1.919	1.902	1.892	1.881
0.80	10.43	4.062	3.155	2.710	2.570	2.443	2.307	2.202	2.112	2.035	1.988	1.968	1.957	1.944
0.90	11.74	4.478	3.420	2.902	2.738	2.589	2.432	2.310	2.206	2.117	2.062	2.040	2.027	2.012
1.00	13.05	4.905	3.698	3.103	2.915	2.744	2.564	2.423	2.306	2.205	2.143	2.117	2.102	2.085
1.25	16.33	6.001	4.426	3.639	3.389	3.163	2.923	2.737	2.580	2.447	2.364	2.330	2.310	2.288
1.50	19.6	7.12	5.184	4.207	3.896	3.612	3.311	3.077	2.881	2.713	2.609	2.566	2.542	2.514
1.75	22.87	8.25	5.960	4.795	4.422	4.081	3.719	3.437	3.200	2.997	2.872	2.820	2.791	2.757
2.00	26.14	9.387	6.747	5.396	4.962	4.564	4.141	3.912	3.533	3.295	3.148	3.088	3.053	3.013
2.50	32.69	11.673	8.339	6.621	6.067	5.557	5.013	4.588	4.228	3.920	3.729	3.650	3.605	3.553
3.00	39.23	13.97	9.945	7.864	7.191	6.570	5.907	5.388	4.947	4.569	4.334	4.238	4.183	4.119
3.50	45.77	16.27	11.560	9.118	8.326	7.596	6.815	6.201	5.681	5.233	4.956	4.842	4.776	4.700
4.00	52.31	18.58	13.180	10.380	9.469	8.630	7.731	7.024	6.424	5.908	5.588	5.458	5.380	5.293
4.50	58.85	20.88	14.800	11.640	10.620	9.669	8.652	7.854	7.174	6.590	6.227	6.077	5.991	5.892
5.00	65.39	23.19	16.430	12.910	11.770	10.710	9.579	8.688	7.929	7.277	6.871	6.704	6.608	6.497
6.00	78.47	27.81	19.680	15.450	14.080	12.810	11.440	10.360	9.449	8.661	8.170	7.968	7.852	7.718
7.00	91.55	32.43	22.940	18.000	16.390	14.900	13.310	12.050	10.980	10.050	9.479	9.242	9.106	8.949
8.00	104.6	37.06	26.200	20.550	18.710	17.010	15.180	13.740	12.510	11.450	10.790	10.520	10.370	10.190
9.00	117.7	41.68	29.460	23.100	21.030	19.110	17.050	15.430	14.050	12.850	12.110	11.810	11.630	11.430
10.00	130.8	46.31	32.730	25.660	23.350	21.220	18.930	17.130	15.590	14.260	13.430	13.100	12.900	12.670

$H_{interpol 2} = 2.0327$

TABLE 4
 PERCENTILES OF STUDENT'S t-DISTRIBUTION WITH n DEGREES OF FREEDOM



nF	0.60	0.75	0.90	0.95	0.975	0.99	0.995	0.9995
1	0.325	1.000	3.078	6.314	12.706	31.821	63.656	636.578
2	0.289	0.816	1.886	2.920	4.303	6.965	9.925	31.600
3	0.277	0.765	1.638	2.353	3.182	4.541	5.841	12.924
4	0.271	0.741	1.533	2.132	2.776	3.747	4.604	8.610
5	0.267	0.727	1.476	2.015	2.571	3.365	4.032	6.869
6	0.265	0.718	1.440	1.943	2.447	3.143	3.707	5.959
7	0.263	0.711	1.415	1.895	2.365	2.998	3.499	5.408
8	0.262	0.706	1.397	1.860	2.306	2.896	3.355	5.041
9	0.261	0.703	1.383	1.833	2.262	2.821	3.250	4.781
10	0.260	0.700	1.372	1.812	2.228	2.764	3.169	4.587
11	0.260	0.697	1.363	1.796	2.201	2.718	3.106	4.437
12	0.259	0.695	1.356	1.782	2.179	2.681	3.055	4.318
13	0.259	0.694	1.350	1.771	2.160	2.650	3.012	4.221
14	0.258	0.692	1.345	1.761	2.145	2.624	2.977	4.140
15	0.258	0.691	1.341	1.753	2.131	2.602	2.947	4.073
16	0.258	0.690	1.337	1.746	2.120	2.583	2.921	4.015
17	0.257	0.689	1.333	1.740	2.110	2.567	2.898	3.965
18	0.257	0.688	1.330	1.734	2.101	2.552	2.878	3.922
19	0.257	0.688	1.328	1.729	2.093	2.539	2.861	3.883
20	0.257	0.687	1.325	1.725	2.086	2.528	2.845	3.850
21	0.257	0.686	1.323	1.721	2.080	2.518	2.831	3.819
22	0.256	0.686	1.321	1.717	2.074	2.508	2.819	3.792
23	0.256	0.685	1.319	1.714	2.069	2.500	2.807	3.768
24	0.256	0.685	1.318	1.711	2.064	2.492	2.797	3.745
25	0.256	0.684	1.316	1.708	2.060	2.485	2.787	3.725
26	0.256	0.684	1.315	1.706	2.056	2.479	2.779	3.707
27	0.256	0.684	1.314	1.703	2.052	2.473	2.771	3.689
28	0.256	0.683	1.313	1.701	2.048	2.467	2.763	3.674
29	0.256	0.683	1.311	1.699	2.045	2.462	2.756	3.660
30	0.256	0.683	1.310	1.697	2.042	2.457	2.750	3.646
40	0.255	0.681	1.303	1.684	2.021	2.423	2.704	3.551
60	0.254	0.679	1.296	1.671	2.000	2.390	2.660	3.460
120	0.254	0.677	1.289	1.658	1.980	2.358	2.617	3.373
1,000,000	0.253	0.674	1.282	1.645	1.960	2.326	2.576	3.290

df₁
 df = 48
 df₂

t₁ t₂

F = 1 - α

GROUP	PARA	NSAMPLE	VAL RES	QUAL	USE
a2scn	ARSENIC	DPS3	6.1		6.1
a2scn	ARSENIC	DPS6	11.3		11.3
a2scn	ARSENIC	FBE+1300	4.3		4.3
a2scn	ARSENIC	FBE+400	3.8		3.8
a2scn	ARSENIC	OU3-A2-SB01-0608	7.6U		3.8
a2scn	ARSENIC	OU3-A2-SB01-1416	6.6UJ		3.3
a2scn	ARSENIC	OU3-A2-SB02-0406	2.3UJ		1.15
a2scn	ARSENIC	OU3-A2-SB02-1416	6.5UJ		3.25
a2scn	ARSENIC	OU3-A2-SB03-0002	4.2U		2.1
a2scn	ARSENIC	OU3-A2-SB03-1416	8.3UJ		4.15
a2scn	ARSENIC	OU3-A2-SB04-0204	5.4		5.4
a2scn	ARSENIC	OU3-A2-SB04A-1214	5.6		5.6
a2scn	ARSENIC	OU3-A2-SS01-0002	44.5		44.5
a2scn	ARSENIC	OU3-A2-SS01-0204	11.1		11.1
a2scn	ARSENIC	OU3-A2-SS02-0002	10		10
a2scn	ARSENIC	OU3-A2-SS03-0002	12.4		12.4
a2scn	ARSENIC	OU3-A2-SS04-0002	4.9UJ		2.45
a2scn	ARSENIC	OU3-A2-SS04-0204	7.2UJ		3.6
a2scn	ARSENIC	OU3-A2-SS05-0002	10.6		10.6
a2scn	ARSENIC	OU3-A2-SS05-0204	4.9J		4.9
a2scn	ARSENIC	SP-SO-MW110D-0002	5.1		5.1
a2scn	ARSENIC	SP-SO-MW110D-0406	5.4		5.4
a2scn	ARSENIC	SP-SO-MW110D-1012	4.9		4.9
a2scn	ARSENIC	SP-SO-MW111D-0810	15		15
a2scn	ARSENIC	SP-SO-MW111D-1012	8.4		8.4
a2scn	ARSENIC	SP-SO-MW112B-0608	5.1		5.1
a2scn	ARSENIC	SP-SO-MW112B-0810	5.8		5.8
a2scn	ARSENIC	SP-SO-MW113B-0204	6.1		6.1
a2scn	ARSENIC	SP-SO-MW113B-0406	5.1		5.1
a2scn	ARSENIC	SP-SO-MW113B-0608	4.2		4.2
a2scn	ARSENIC	SP-SO-MW113B-0810	5.5		5.5
a2scn	ARSENIC	SP-SO-SB1-0406	12.6J		12.6
a2scn	ARSENIC	SP-SO-SB2-0204	8.5		8.5
a2scn	ARSENIC	SP-SO-SB3-1416	5.7		5.7
a2scn	ARSENIC	SP-SO-SB4-0406	5.9		5.9
a2scn	ARSENIC	SP-SO-SB5-1214	8.2		8.2
a2scn	ARSENIC	SP-SO-SB6-0608	3.5		3.5
a2scn	ARSENIC	SP-SO-SB7-0204	5.6		5.6
a2scn	ARSENIC	SP-SO-SB8-0002	5.2		5.2
a2scn	ARSENIC	SP-SO-SB8-0204	2.8		2.8
a2scn	ARSENIC	SP-SO-SB9-0608	5.5		5.5
a2scn	ARSENIC	SP-SO-SB9-0810	6.7		6.7
a2scn	ARSENIC	SPDPS-002	2.1		2.1
a2scn	ARSENIC	SPDPS001	4.3J		4.3
a2scn	ARSENIC	SPEL-003	3.8		3.8
a2scn	ARSENIC	SPHMB+100	8.3		8.3
a2scn	ARSENIC	SPSCA+390	2.2		2.2
a2scn	ARSENIC	SPTS006	2.4		2.4
a2scn	ARSENIC	SPVM007	3.4U		1.7

PARA	AvgOfUSE	StDevOfUSE
ARSENIC	6.51836734693878	6.34459000085203