

Table 2-1. Summary of Soil Analytical Results, April 2007 Sampling Event, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

	Sample ID Collection Date	SB-1-4' 4/3/2007	SB-1-6' 4/3/2007	SB-2-4' 4/3/2007	SB-2-6' 4/3/2007	SB-3-4' 4/3/2007	SB-3-6' 4/3/2007	SB-4-4' 4/3/2007	SB-4-6' 4/3/2007	SB-5-4' 4/2/2007	SB-5-6' 4/2/2007	SB-6-4' 4/2/2007
Constituent	IHSB SRG ¹ µg/kg											
1,1,1-Trichloroethane	400,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,1,2,2-Tetrachloroethane	410	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,1-Dichloroethane	102,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,2,4-Trichlorobenzene	12,400	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,2,4-Trimethylbenzene ²	10,400	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,2-Dichlorobenzene	220,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,2-Dichloroethane	280	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,2-Dichloropropane	340	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,3,5-Trimethylbenzene ²	4,200	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,3-Dichlorobenzene	106,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
1,4-Dichlorobenzene	3,400	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Acetone	2,800,000	66	< 5.2	< 5.2	100	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 70	< 6.3
Benzene	640	< 5.5*	< 5.2*	< 5.2*	< 5.5*	< 5.6*	< 5.9*	< 7.4*	< 6.7*	< 5.8	< 7	< 6.3
Bromobenzene ²	5,600	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Carbon tetrachloride	250	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Chlorobenzene	30,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Chloroform	220	63	48	640 D	620 D	87	180	1,200 D	410 D	11	21	120
Ethylbenzene	380,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
m-Xylene & p-Xylene ³	54,000	< 11	< 10	< 10	< 11	< 11	< 12	< 15	< 13	< 12	< 14	< 13
Methylene Chloride	9,100	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Naphthalene	11,200	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
4-Methyl-2-pentanone	1,060,000	< 27	< 26	< 26	< 27	< 28	< 30	< 37	< 33	< 29	< 35	< 31
2-Butanone	4,400,000	< 27	< 26	< 26	< 27	< 28	< 30	< 37	< 33	< 29	< 35	< 31
n-Butylbenzene ²	116,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
n-Propylbenzene ²	116,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
o-Xylene ³	54,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Toluene	132,000	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Trichloroethene	53	< 5.5	< 5.2	< 5.2	< 5.5	< 5.6	< 5.9	< 7.4	< 6.7	< 5.8	< 7	< 6.3
Xylenes, Total	54,000	< 11	< 10	< 10	< 11	< 11	< 12	< 15	< 13	< 12	< 14	< 13

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

² IHSB SRG value not available. As per the REC Program Implementation Guidance dated August 2007, the USEPA (2004) Region IX Intercalc-Soil Preliminary Remediation Goals for residential soil were used, and following requirements under Appendix E of the same guidance document non-carcinogens are adjusted by dividing the PRG value by 5 to account for potential additive toxic effects.

³ Xylenes (total) used as a surrogate.

* LCS or LCSD exceeds the control limits.

D Compound analyzed at a dilution.

E Result exceeded calibration; value was estimated.

< Constituent was not detected above the indicated reporting limit.

µg/kg Micrograms per kilogram.

Table 2-1. Summary of Soil Analytical Results, April 2007 Sampling Event, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID Collection Date IHSB SRG ¹ µg/kg	SB-6-6'	SB-7-4'	SB-8-4'	SB-8-6'	SB-9-4'	SB-9-6'	SB-11-4'	SB-11-6'	SB-12-4'	SB-13-4'	SB-13-6'
		4/2/2007	4/4/2007	4/4/2007	4/4/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/2/2007
1,1,1-Trichloroethane	400,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,1,2,2-Tetrachloroethane	410	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	260 E	280 D	< 6	< 5.6	< 6.1
1,1-Dichloroethane	102,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,2,4-Trichlorobenzene	12,400	< 5.8	28	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,2,4-Trimethylbenzene ²	10,400	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,2-Dichlorobenzene	220,000	< 5.8	< 5.7	< 5.4	11	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,2-Dichloroethane	280	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	11	11	< 5.7	< 6	< 5.6	< 6.1
1,2-Dichloropropane	340	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,3,5-Trimethylbenzene ²	4,200	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,3-Dichlorobenzene	106,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
1,4-Dichlorobenzene	3,400	< 5.8	62	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Acetone	2,800,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	80	< 6.0	< 5.6	< 6.1
Benzene	640	< 5.8	64	< 5.4	< 5.6	< 6.6*	19*	< 5.9*	< 5.7*	< 6*	< 5.6	12
Bromobenzene ²	5,600	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Carbon tetrachloride	250	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Chlorobenzene	30,000	< 5.8	9.5	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Chloroform	220	240 E	45	< 5.4	< 5.6	< 6.6	< 5.6	500 E	350 E	< 6	< 5.6	81
Ethylbenzene	380,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
m-Xylene & p-Xylene ³	54,000	< 12	< 11	< 11	< 11	< 13	< 11	< 12	< 11	< 12	< 11	< 12
Methylene Chloride	9,100	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Naphthalene	11,200	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
4-Methyl-2-pentanone	1,060,000	< 29	< 29	< 27	< 28	< 33	< 28	< 30	< 28	< 30	< 28	< 30
2-Butanone	4,400,000	< 29	< 29	< 27	< 28	< 33	< 28	< 30	< 28	< 30	< 28	< 30
n-Butylbenzene ²	116,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
n-Propylbenzene ²	116,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
o-Xylene ³	54,000	< 5.8	7.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Toluene	132,000	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	< 5.9	< 5.7	< 6	< 5.6	< 6.1
Trichloroethene	53	< 5.8	< 5.7	< 5.4	< 5.6	< 6.6	< 5.6	10	19	< 6	< 5.6	< 6.1
Xylenes, Total	54,000	< 12	16	< 11	< 11	< 13	< 11	< 12	< 11	< 12	< 11	< 12

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

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Constituent	Sample ID Collection Date IHSB SRG ¹ µg/kg	SB-14-4'	SB-14-6'	SB-15-6'	SB-15-10'	SB-17-4'	SB-17-6'	SB-18-4'	SB-18-6'	SB-19-5'	SB-19-10'	SB-20-5'
		4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/2/2007
1,1,1-Trichloroethane	400,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	5.8	< 5.4	< 5.5	< 5.4	< 5.6
1,1,2,2-Tetrachloroethane	410	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,1-Dichloroethane	102,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,2,4-Trichlorobenzene	12,400	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,2,4-Trimethylbenzene ²	10,400	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,2-Dichlorobenzene	220,000	< 5.4	< 6.3	< 6.2	< 6.1	80	3,300 D	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,2-Dichloroethane	280	< 5.4	< 6.3	< 6.2	< 6.1	65	140	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,2-Dichloropropane	340	< 5.4	< 6.3	< 6.2	< 6.1	30	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,3,5-Trimethylbenzene ²	4,200	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,3-Dichlorobenzene	106,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	5.6	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
1,4-Dichlorobenzene	3,400	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	5.9	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Acetone	2,800,000	2,400 D	< 6.3	< 6.2	< 6.1	64	88	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Benzene	640	< 5.4	< 6.3	10	< 6.1	150*	320 D	< 5.4*	< 5.4*	< 5.5*	< 5.4*	< 5.6
Bromobenzene ²	5,600	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Carbon tetrachloride	250	< 5.4	< 6.3	< 6.2	< 6.1	8	12	20	9.8	< 5.5	< 5.4	< 5.6
Chlorobenzene	30,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	11	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Chloroform	220	290 D	18	2,100 D	1,200 D	4,300 D	4,400 D	290 E	210	110	1,900 D	450 E
Ethylbenzene	380,000	6.4	< 6.3	< 6.2	< 6.1	< 5.3	59	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
m-Xylene & p-Xylene ³	54,000	40	< 13	< 12	< 12	21	220	< 11	< 11	< 11	< 11	< 11
Methylene Chloride	9,100	< 5.4	< 6.3	< 6.2	< 6.1	68	300 D	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Naphthalene	11,200	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
4-Methyl-2-pentanone	1,060,000	< 27	< 31	< 31	< 30	< 27	< 27	< 27	< 27	< 28	< 27	< 28
2-Butanone	4,400,000	< 27	< 31	< 31	< 30	< 27	< 27	< 27	< 27	< 28	< 27	< 28
n-Butylbenzene ²	116,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
n-Propylbenzene ²	116,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	< 5.4	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
o-Xylene ³	54,000	19	< 6.3	< 6.2	< 6.1	8.4	120	8.8	< 5.4	< 5.5	< 5.4	< 5.6
Toluene	132,000	< 5.4	< 6.3	< 6.2	< 6.1	< 5.3	600 D	6	< 5.4	< 5.5	< 5.4	< 5.6
Trichloroethene	53	< 5.4	< 6.3	< 6.2	< 6.1	7.1	12	< 5.4	< 5.4	< 5.5	< 5.4	< 5.6
Xylenes, Total	54,000	59	< 13	< 12	< 12	29	330	18	< 11	< 11	< 11	< 11

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

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Constituent	Sample ID Collection Date IHSB SRG ¹ µg/kg	SB-20-10'	SB-21-5'	SB-21-10'	SB-22-5'	SB-22-10'	SB-23-5'	SB-23-10'	SB-24-4'	SB-24-6'	SB-25-5'	SB-25-10'
		4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/3/2007
1,1,1-Trichloroethane	400,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	510 E	110	890 D	6.3	13
1,1,2,2-Tetrachloroethane	410	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
1,1-Dichloroethane	102,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	18	< 5.4	18	< 5.5	< 5.6
1,2,4-Trichlorobenzene	12,400	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
1,2,4-Trimethylbenzene ²	10,400	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	86	< 5.4	< 6.8	< 5.5	< 5.6
1,2-Dichlorobenzene	220,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
1,2-Dichloroethane	280	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	280	< 5.4	33	< 5.5	31
1,2-Dichloropropane	340	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
1,3,5-Trimethylbenzene ²	4,200	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	34	< 5.4	< 6.8	< 5.5	< 5.6
1,3-Dichlorobenzene	106,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
1,4-Dichlorobenzene	3,400	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	< 11	< 5.4	< 6.8	< 5.5	< 5.6
Acetone	2,800,000	< 110	3,400 D	< 68	< 63	< 62	< 67	12,000 D	59	< 68	58	< 56
Benzene	640	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	380	< 5.4*	48*	170*	570 D
Bromobenzene ²	5,600	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	24	< 5.4	< 6.8	< 5.5	< 5.6
Carbon tetrachloride	250	< 11	< 5.4	< 6.8	7.2	< 6.2	< 6.7	100	13	10	40	110
Chlorobenzene	30,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	45	< 5.4	< 6.8	< 5.5	< 5.6
Chloroform	220	51	25	110	690 D	46	22	250 D	480 D	4,000 D	1,400 E	3,100 D
Ethylbenzene	380,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	500 E	< 5.4	18	22	170
m-Xylene & p-Xylene ³	54,000	< 23	< 11	< 14	< 13	< 12	< 13	1,300 E	< 11	22	91	420
Methylene Chloride	9,100	< 11	6.3	< 6.8	< 6.3	< 6.2	< 6.7	880 E	< 5.4	82	60	480 D
Naphthalene	11,200	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	22	< 5.4	< 6.8	< 5.5	< 5.6
4-Methyl-2-pentanone	1,060,000	< 57	28	< 34	< 32	< 31	< 34	< 54	< 27	< 34	< 28	< 28
2-Butanone	4,400,000	< 57	31	< 34	< 32	< 31	< 34	84	< 27	< 34	< 28	< 28
n-Butylbenzene ²	116,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	14	< 5.4	< 6.8	< 5.5	< 5.6
n-Propylbenzene ²	116,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	17	< 5.4	< 6.8	< 5.5	< 5.6
o-Xylene ³	54,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	630 E	< 5.4	12	43	440 D
Toluene	132,000	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	300	< 5.4	< 6.8	180	730 D
Trichloroethene	53	< 11	< 5.4	< 6.8	< 6.3	< 6.2	< 6.7	52	< 5.4	9.9	< 5.5	7.7
Xylenes, Total	54,000	< 23	< 11	< 14	< 13	< 12	< 13	2,000	< 11	34	130	800

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

² IHSB SRG value not available. As per the REC Program Implementation Guidance dated August 2007, the USEPA (2004) Region IX Intercalc-Soil Preliminary Remediation Goals for residential soil were used, and following requirements under Appendix E of the same guidance document non-carcinogens are adjusted by dividing the PRG value by 5 to account for potential additive toxic effects.

³ Xylenes (total) used as a surrogate.

* LCS or LCSD exceeds the control limits.

D Compound analyzed at a dilution.

E Result exceeded calibration; value was estimated.

< Constituent was not detected above the indicated reporting limit.

µg/kg Micrograms per kilogram.

Table 2-1. Summary of Soil Analytical Results, April 2007 Sampling Event, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID Collection Date IHSB SRG ¹ µg/kg	SB-26-5'	SB-26-9'	SB-27-5'	SB-27-10'	SB-28-4'	SB-28-6'	SB-29-5'	SB-29-10'	SB-30-5'	SB-31-5'	SB-31-10'
		4/4/2007	4/4/2007	4/4/2007	4/4/2007	4/4/2007	4/4/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007	4/3/2007
1,1,1-Trichloroethane	400,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,1,2,2-Tetrachloroethane	410	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,1-Dichloroethane	102,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,2,4-Trichlorobenzene	12,400	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,2,4-Trimethylbenzene ²	10,400	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,2-Dichlorobenzene	220,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,2-Dichloroethane	280	< 6.6	92	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,2-Dichloropropane	340	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,3,5-Trimethylbenzene ²	4,200	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,3-Dichlorobenzene	106,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
1,4-Dichlorobenzene	3,400	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Acetone	2,800,000	< 66	< 63	< 52	< 57	< 54	< 53	< 56	110	74	51	< 51
Benzene	640	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4*	< 5.3	< 5.6*	< 7.5*	< 7.2*	< 5.1*	< 5.1*
Bromobenzene ²	5,600	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Carbon tetrachloride	250	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Chlorobenzene	30,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Chloroform	220	< 6.6	230 D	120	720 D	< 5.4	140	22	< 7.5	< 7.2	5.7	11
Ethylbenzene	380,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
m-Xylene & p-Xylene ³	54,000	< 13	< 13	< 10	< 11	< 11	< 11	< 11	< 15	< 14	< 10	< 10
Methylene Chloride	9,100	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Naphthalene	11,200	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
4-Methyl-2-pentanone	1,060,000	< 33	< 31	< 26	< 29	< 27	< 27	< 28	< 37	< 36	< 26	< 25
2-Butanone	4,400,000	< 33	< 31	< 26	< 29	< 27	< 27	< 28	< 37	< 36	< 26	< 25
n-Butylbenzene ²	116,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
n-Propylbenzene ²	116,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
o-Xylene ³	54,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Toluene	132,000	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Trichloroethene	53	< 6.6	< 6.3	< 5.2	< 5.7	< 5.4	< 5.3	< 5.6	< 7.5	< 7.2	< 5.1	< 5.1
Xylenes, Total	54,000	< 13	< 13	< 10	< 11	< 11	< 11	< 11	< 15	< 14	< 10	< 10

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

² IHSB SRG value not available. As per the REC Program Implementation Guidance dated August 2007, the USEPA (2004) Region IX Intercalc-Soil Preliminary Remediation Goals for residential soil were used, and following requirements under Appendix E of the same guidance document non-carcinogens are adjusted by dividing the PRG value by 5 to account for potential additive toxic effects.

³ Xylenes (total) used as a surrogate.

* LCS or LCSD exceeds the control limits.

D Compound analyzed at a dilution.

E Result exceeded calibration; value was estimated.

< Constituent was not detected above the indicated reporting limit.

µg/kg Micrograms per kilogram.

Table 2-1. Summary of Soil Analytical Results, April 2007 Sampling Event, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID Collection Date IHSB SRG ¹ µg/kg	SB-32-5'	SB-32-10'	SB-33-5'	SB-33-10'	SB-33-15'	SB-34-5'	SB-34-10'	SB-35-4'	SB-35-6'
		4/4/2007	4/4/2007	4/2/2007	4/2/2007	4/2/2007	4/4/2007	4/4/2007	4/4/2007	4/4/2007
1,1,1-Trichloroethane	400,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,1,2,2-Tetrachloroethane	410	< 5.1	< 5.3	< 7.2	< 6	12	< 6.4	< 6	< 6.2	< 5.6
1,1-Dichloroethane	102,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,2,4-Trichlorobenzene	12,400	56	15	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,2,4-Trimethylbenzene ²	10,400	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,2-Dichlorobenzene	220,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,2-Dichloroethane	280	< 5.1	< 5.3	< 7.2	< 6	24	< 6.4	< 6	< 6.2	< 5.6
1,2-Dichloropropane	340	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,3,5-Trimethylbenzene ²	4,200	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,3-Dichlorobenzene	106,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
1,4-Dichlorobenzene	3,400	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
Acetone	2,800,000	< 51	< 53	< 72	< 60	14,000 D	< 64	< 60	< 62	< 56
Benzene	640	< 5.1	< 5.3	< 7.2	< 6	52	< 6.4*	< 6*	< 6.2*	< 5.6*
Bromobenzene ²	5,600	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
Carbon tetrachloride	250	< 5.1	< 5.3	< 7.2	< 6	68	< 6.4	< 6	< 6.2	< 5.6
Chlorobenzene	30,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
Chloroform	220	< 5.1	< 5.3	< 7.2	< 6	720 D	< 6.4	97	< 6.2	110
Ethylbenzene	380,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
m-Xylene & p-Xylene ³	54,000	< 10	< 11	< 14	< 12	< 11	< 13	< 12	< 12	< 11
Methylene Chloride	9,100	< 5.1	< 5.3	< 7.2	< 6	1,800 D	< 6.4	< 6	< 6.2	< 5.6
Naphthalene	11,200	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
4-Methyl-2-pentanone	1,060,000	< 26	< 26	< 36	< 30	< 27	< 32	< 30	< 31	< 28
2-Butanone	4,400,000	< 26	< 26	< 36	< 30	270	< 32	< 30	< 31	< 28
n-Butylbenzene ²	116,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
n-Propylbenzene ²	116,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
o-Xylene ³	54,000	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
Toluene	132,000	< 5.1	< 5.3	< 7.2	< 6	23	< 6.4	< 6	< 6.2	< 5.6
Trichloroethene	53	< 5.1	< 5.3	< 7.2	< 6	< 5.4	< 6.4	< 6	< 6.2	< 5.6
Xylenes, Total	54,000	< 10	< 11	< 14	< 12	< 11	< 13	< 12	< 12	< 11

¹ Inactive Hazardous Sites Branch Soil Remediation Goals (IHSB SRG) in µg/kg (August 2007).

² IHSB SRG value not available. As per the REC Program Implementation Guidance dated August 2007, the USEPA (2004) Region IX Intercalc-Soil Preliminary Remediation Goals for residential soil were used, and following requirements under Appendix E of the same guidance document non-carcinogens are adjusted by dividing the PRG value by 5 to account for potential additive toxic effects.

³ Xylenes (total) used as a surrogate.

* LCS or LCSD exceeds the control limits.

D Compound analyzed at a dilution.

E Result exceeded calibration; value was estimated.

< Constituent was not detected above the indicated reporting limit.

µg/kg Micrograms per kilogram.

Table 6-1. Confirmatory Soil Sampling Methods, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Analyte	Method	Hold Time	Volume of Sample
Excavation Base Samples; Estimated Quantity: 1 per burial pit; Estimated Total: 18			
VOCs	SW846 8260	48 hours	4 ounce Glass Jar plus three 5-gram Encores
SVOCs	SW846 8270	14 days	250 ml Glass Jar
Synthetic Precipitation Leaching Procedure (SPLP) for VOCs/SVOCs	SW846 1312	14 days	16 oz and 8 oz Glass Jar
Excavation Sidewalls along the Periphery of the Waste-Disposal Area; Estimated Quantity: 20-ft intervals along periphery; Estimated Total: 22			
VOCs	SW846 8260	48 hours	4 ounce Glass Jar plus 2 5-gram Encores
SVOCs	SW846 8270	14 days	250 ml Glass Jar
SPLP for VOCs/SVOCs	SW846 1312	14 days	16 oz and 8 oz Glass Jar

Suspected Clean Soil;

Estimated Quantity: 1 sample per 100 cy; Estimated Total: 32 Based on 3,200 cy of soil

VOCs	SW846 8260	48 hours	4 ounce Glass Jar plus 2 5-gram Encores
SVOCs	SW846 8270	14 days	250 ml Glass Jar
SPLP for VOCs/SVOCs	SW846 1312	14 days	16 oz and 8 oz Glass Jar

Suspect Dirty Soil;

Estimated Quantity: 1 sample per 100 cy; Estimated Total: 12 Based on 1,200 cy of soil

VOCs	SW846 8260	48 hours	4 ounce Glass Jar plus 2 5-gram Encores
SVOCs	SW846 8270	14 days	250 ml Glass Jar
SPLP for VOCs/SVOCs	SW846 1312	14 days	16 oz and 8 oz Glass Jar

Fluids from Dewatering and Decontamination Operations;

Estimated Quantity: 1 sample per tank; Estimated Total: 2

VOCs	SW846 8260	48 hours	3 40mL glass vials
SVOCs	SW846 8270	14 days	2 1L amber glass bottle
RCRA Metals	USEPA Method 6010	48 hours	1 500ml poly-bottle, Nitric Acid
Low Level Mercury	USEPA Method 1631E	48 hours	3 40mL glass vials, unpreserved
pH	Standard Method 4500-H ⁺ B.	48 hours	100mL poly-bottle, unpreserved

Clean Fill;

Estimated Quantity: 1 sample per source; Estimated Total: 1

VOCs	SW846 8260	48 hours	4 ounce Glass Jar plus 2 5-gram Encores
SVOCs	SW846 8270	14 days	250 ml Glass Jar
SPLP for VOCs/SVOCs	SW846 1312	14 days	16 oz and 8 oz Glass Jar