TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

	Field Sample Location:	SBS-01	SBS-02	SBS-03	SBS-05	SBS-06	SBS-07	SBS-08	SBS-09	SBS-10	SBS-11	SBS-12	SBS-12
	Field Sample Identification:	05CB03-12	05CB03-18	05CB03-19	05CB03-31	05CB03-39	05CB03-34	05CB03-25	05CB03-96	05CB03-43	05CB03-89	05CB03-49	05CB03-50
	Sample Interval:	10'-15'	9'-14'	9'-14'	11'-16'	12'-17'	14'-19'	13'-18'	11.5'-16.5'	8.5'-13.5'	8.6'-13.6'	11'-16'	11'-16'
	Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
	Sample Collection Date:	2/14/2005	2/15/2005	2/15/2005	2/16/2005	2/17/2005	2/17/2005	2/16/2005	2/23/2005	2/18/2005	2/23/2005	2/18/2005	2/18/2005
Metals	**Units**												
ALUMINUM	µg/L	2,580 J	502 J	435 R*	874	62 J	76.3 J	786	97.8 J	348	122	580	553
ANTIMONY	µg/L	2.51 J	12.2 J	2.3 R*	2.3 U	3.05 U	2.8 U	2.3 U	2.3 U	2.42 U	2.3 U	2.3 U	2.3 U
ARSENIC	µg/L	4.24 J	90.7	9.81 J	78.3	9.89 U	194	115	154	31	67.4	39.5	39.5
BARIUM	µg/L	34.6 J	83 J	38.1 R*	41	265 J	57.2	105	26.6	97.5 J	30.6	140	145
BERYLLIUM	µg/L	0.575 J	0.328 J	0.2 R*	0.2 U	0.2 U	0.2 U	0.339 U	0.305 U	0.2 U	0.2 U	0.266 U	0.212 U
CADMIUM	µg/L	0.37 J	0.35 UJ	0.985 R*	1.75 UJ	0.35 U	3.5 UJ	4.38 U	1.75 UJ	1.75 UJ	1.75 UJ	1.05	1.36
CALCIUM	µg/L	180,000 J	156,000 J	174,000 R*	605,000 J	121,000	1,100,000 J	844,000 J	388,000 J	513,000 J	266,000 J	199,000	206,000
CHROMIUM, TOTAL	µg/L	6.87 J	4.25 J	2.23 R*	18.2	2.85	3.84	1.99 J	13.4	3.61	1.3 U	2.68	2.58
COBALT	µg/L	1.94 J	6.53 J	6.18 R*	6.27	2.96 J	1.88 J	0.76 U	0.76 U	12	2.09 J	0.76 U	0.76 U
COPPER	µg/L	3.92 J	7.72 J	1.42 R*	3.56 J	0.62 U	0.62 U	0.848 J	2.33 J	3.42 J	1.17 J	1.64 J	2.38 J
CYANIDE	µg/L	NR	NR	NR	NR	4.36 U	3.7 U	NR	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
IRON	µg/L	3,640 J	1,660 J	5,360 R*	18,600	3,930	26,400	463	6,990	35,400	19,800	12,100	12,500
LEAD	µg/L	4.22 J	2.54 J	2.2 R*	11 UJ	2.2 U	22 UJ	11 UJ	11 UJ	11 UJ	11 UJ	2.2 UJ	2.2 UJ
MAGNESIUM	µg/L	192,000 J	246,000 J	170,000 R*	207,000	245,000	232,000	40,000	165,000	227,000	80,600	134,000	140,000
MANGANESE	µg/L	177 J	281 J	341 R*	3,110	974 J	2,860	10.1	338	4,200 J	1,990	546	559
MERCURY	µg/L	0.025 UJ	0.0313 J	0.0275 J	0.322	0.025 U	0.296	0.313	0.233 J	0.0444 J	0.025 UJ	0.025 U	0.025 U
NICKEL	µg/L	15.8 J	20.8 J	21 R*	11.1 J	13.1	17 UJ	11 J	11.7 J	72.2 J	8.5 UJ	22.3	22.6
POTASSIUM	µg/L	51,900 J	63,600 J	40,500 R*	21,700	37,700	37,200	90,000	39,000	36,700	31,400	37,400	39,000
SELENIUM	µg/L	3.84 J	2.6 UJ	3.2 R*	13 UJ	2.6 U	26 UJ	13 UJ	13 UJ	13 UJ	13 UJ	2.6 U	2.95 J
SILICA	mg/L	24.2 J	18.1 J	19.1 J	53.3 J	9 J	72.9 J	12.1 J	20.6 J	17.6 J	23.3 J	14.4 J	15.4 J
SILVER	µg/L	0.65 UJ	0.65 UJ	0.65 R*	3.25 UJ	3.25 UJ	6.5 UJ	3.25 UJ	0.69 U	3.25 UJ	0.99 U	0.65 U	0.65 U
SODIUM	µg/L	116,000 J	144,000 J	98,900 R*	87,800 J	297,000 J	597,000 J	400,000 J	102,000	227,000	96,700	99,900	103,000
THALLIUM	µg/L	4.2 UJ	4.2 UJ	4.2 R*	21 UJ	4.2 U	42 UJ	21 UJ	21 UJ	21 UJ	21 UJ	4.2 U	4.2 U
VANADIUM	µg/L	7.94 J	1.95 J	1.96 R*	3.86	1.1 U	1.33 J	11	1.56 J	1.43 J	1.66 J	2.38 J	2.2 J
ZINC	µg/L	5.98 J	10.2 J	3.67 R*	9.87 UJ	0.94 U	9.4 UJ	4.7 UJ	56.2 J	12.8 UJ	6.9 UJ	0.94 UJ	0.94 UJ
Pesticides/PBB/HBB													
HEXABROMOBENZENE	µg/L	0.1 UJ	0.12 UJ	0.11 UJ	0.11 U	0.11 U	0.11 U	0.11 U	0.11 UJ	0.11 U	0.12 UJ	0.11 U	0.11 U
HEXABROMOBIPHENYL	µg/L	0.1 UJ	0.12 UJ	0.11 UJ	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U	0.11 U
O,P'-DDD	µg/L	0.1 U	0.12 U	0.045 J	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.03 J	0.12 U	0.076 J	0.091 J
O,P'-DDE	µg/L	0.1 U	0.12 U	0.11 UJ	0.11 UJ	0.11 UJ	0.099 J	0.11 UJ	0.11 UJ	0.11 UJ	0.12 U	0.11 U	0.11 U
O,P'-DDT	µg/L	0.1 U	0.12 U	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.12 U	0.11 U	0.11 U
P,P'-DDD	µg/L	0.1 U	0.061 J	0.18 J	0.3 J	0.11 UJ	0.34 J	0.11 UJ	0.11 UJ	0.11 UJ	0.12 U	0.11 U	0.11 U
P,P'-DDE	µg/L	0.1 U	0.12 U	0.11 UJ	0.56 J	0.11 UJ	0.18 J	0.11 UJ	0.11 UJ	0.11 UJ	0.12 U	0.043 J	0.039 J
P,P'-DDT	µg/L	0.1 U	0.12 U	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.12 U	0.038 J	0.11 U
Semivolatile Organic Compounds													
2,4,5-TRICHLOROPHENOL	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25.4 UJ	25.8 UJ
2,4,6-TRICHLOROPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
2,4-DICHLOROPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
2,4-DIMETHYLPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
2,4-DINITROPHENOL	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 UJ	25 U	25 UJ	25 UJ	25 UJ	25 U	25 UJ	25.4 UJ	25.8 UJ
2,4-DINITROTOLUENE	µg/L	10.1 U	10.3 U	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
2,6-DINITROTOLUENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
2-CHLORONAPHTHALENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
2-CHLOROPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
2-METHYLNAPHTHALENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
2-METHYLPHENOL (O-CRESOL)	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
2-NITROANILINE	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 U	25 UJ	25 U	25.4 UJ	25.8 UJ
2-NITROPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
3,3'-DICHLOROBENZIDINE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
3-NITROANILINE	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25.4 UJ	25.8 UJ
4,6-DINITRO-2-METHYLPHENOL	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 U	25 U	25 U	25 U	25 UJ	25 U	25 UJ	25.4 UJ	25.8 UJ
4-BROMOPHENYL PHENYL ETHER	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
4-CHLORO-3-METHYLPHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
4-CHLOROANILINE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
4-CHLOROPHENYL PHENYL ETHER	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
4-METHYLPHENOL (P-CRESOL)	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	7.6 J	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
4-NITROANILINE	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 U	25 UJ	25 U	25.4 UJ	25.8 UJ
4-NITROPHENOL	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25.4 UJ	25.8 UJ
ACENAPHTHENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
ACENAPHTHYLENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-01	SBS-02	SBS-03	SBS-05	SBS-06	SBS-07	SBS-08	SBS-09	SBS-10	SBS-11	SBS-12	SBS-12
Field Sample Identification:		05CB03-12	05CB03-18	05CB03-19	05CB03-31	05CB03-39	05CB03-34	05CB03-25	05CB03-96	05CB03-43	05CB03-89	05CB03-49	05CB03-50
Sample Interval:		10'-15'	9'-14'	9'-14'	11'-16'	12'-17'	14'-19'	13'-18'	11.5'-16.5'	8.5'-13.5'	8.6'-13.6'	11'-16'	11'-16'
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/14/2005	2/15/2005	2/15/2005	2/16/2005	2/17/2005	2/17/2005	2/16/2005	2/23/2005	2/18/2005	2/23/2005	2/18/2005	2/18/2005
ACETOPHENONE	µg/L	10.1 U	10.3 U	1.6 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	0.75 J	10.2 UJ	10.3 UJ
ANTHRACENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
BENZALDEHYDE	µg/L	10.1 UJ	0.98 UJ	1.8 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
BENZO(A)ANTHRACENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
BENZO(A)PYRENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
BENZO(B)FLUORANTHENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
BENZO(G,H,I)PERYLENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
BENZO(K)FLUORANTHENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
BENZYL BUTYL PHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
BIPHENYL (DIPHENYL)	µg/L	10.1 U	10.3 U	10.3 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
BIS(2-CHLOROETHOXY) METHANE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
BIS(2-CHLOROISOPROPYL) ETHER	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
CAPROLACTAM	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
CARBAZOLE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
CHRYSENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
DIBENZ(A,H)ANTHRACENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
DIBENZOFURAN	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
DIETHYL PHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
DIMETHYL PHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
DI-N-BUTYL PHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
DI-N-OCTYLPHTHALATE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
FLUORANTHENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
FLUORENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
HEXACHLOROBENZENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
HEXACHLOROBUTADIENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
HEXACHLOROCYCLOPENTADIENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10.2 UJ	10.3 UJ
HEXACHLOROETHANE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
INDENO(1,2,3-C,D)PYRENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
ISOPHORONE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
NAPHTHALENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	3.1 J	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
NITROBENZENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10.2 UJ	10.3 UJ
N-NITROSODI-N-PROPYLAMINE	µg/L	10.1 U	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
N-NITROSODIPHENYLAMINE	µg/L	10.1 U	10.3 U	10.3 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 U	10.3 U
PENTACHLOROPHENOL	µg/L	25.2 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25.4 UJ	25.8 UJ
PHENANTHRENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10.2 UJ	10.3 UJ
PHENOL	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ	10 UJ	10 UJ	4.5 J	3.7 J	10 UJ	10.2 UJ	10.3 UJ
PYRENE	µg/L	10.1 UJ	10.3 UJ	10.3 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.2 UJ	10.3 UJ
Volatile Organic Compounds													
1,1,1-TRICHLOROETHANE	µg/L	1.8 U	1.8 U	1.8 U	9 U	1.8 U	12.5	9 U	90 U	1.5 J	1.8 U	1.8 U	1.8 U
1,1,2,2-TETRACHLOROETHANE	µg/L	2.5 U	2.5 U	2.5 U	12.5 U	2.5 U	12.5 U	12.5 U	125 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
1,1,2-TRICHLOROETHANE	µg/L	2.1 U	2.1 U	2.1 U	10.5 U	2.1 U	10.5 U	10.5 U	105 U	2.1 U	2.1 U	2.1 U	2.1 U
1,1-DICHLOROETHANE	µg/L	0.51 J	2.2 U	0.41 J	6.3 J	1.5 J	39.4	27.8	52.3 J	19.1	3.2	7.6	6.4
1,1-DICHLOROETHENE	µg/L	2.9 U	2.9 U	2.9 U	14.5 U	2.9 U	14.5 U	14.5 U	145 U	11.4	2.9 U	2.9 U	2.9 U
1,2,4-TRICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	3.5 U	3.5 U	3.5 U	7,290	1.5 J	5,540	17.5 U	175 U	7.4	17.1	3.5 U	3.5 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	µg/L	3.5 U	3.5 U	3.5 U	3.4 J	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
1,2-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	8.8 J	3.5 U	1.5 J	4.3 J	175 U	3.5 U	3.5 U	3.5 U	3.5 U
1,2-DICHLOROETHANE	µg/L	1.7 U	1.7 U	1.7 U	1,520	1.7 U	1,020	173	3,080	602	1.7 U	1.7 U	1.7 U
1,2-DICHLOROETHYLENES	µg/L	1.8 J	1.3 J	2.2 U	11 U	3.9	2.7 J	3 J	110 U	293	7.7	4.4	4.5
1,2-DICHLOROPROPANE	µg/L	2.2 U	2.2 U	2.2 U	23	0.52 J	11 U	11 U	110 U	5.3	2.2 U	0.23 J	2.2 U
1,3-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
1,4-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	17.4 J	3.5 U	2.6 J	10.4 J	175 U	0.42 J	3.5 U	3.5 U	3.5 U
2-HEXANONE	µg/L	4.6 U	4.6 U	4.6 U	23 U	4.6 U	23 U	23 U	230 U	4.6 U	4.6 U	4.6 U	4.6 U
ACETONE	µg/L	6.6	5.6 U	6.8 J	4,060	5.6 U	1,920	301	280 U	5.6 U	5.6 U	5.6 UJ	5.6 UJ
BENZENE	µg/L	4.8	1.1	4.3	2,700	0.84	12,500	2,380	33,600	1,960	86.8	67.5	66.6
BROMOCHLOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	1.1 J	3.5 U	3.5 U	3.5 U
BROMODICHLOROMETHANE	µg/L	1.6 U	1.6 U	1.6 U	8 U	1.6 U	8 U	8 U	80 U	1.6 U	1.6 U	1.6 U	1.6 U
BROMOFORM	µg/L	1.8 U	1.8 U	1.8 U	9 U	1.8 U	9 U	9 U	90 U	1.8 U	1.8 U	1.8 U	1.8 U

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-01	SBS-02	SBS-03	SBS-05	SBS-06	SBS-07	SBS-08	SBS-09	SBS-10	SBS-11	SBS-12	SBS-12
Field Sample Identification:		05CB03-12	05CB03-18	05CB03-19	05CB03-31	05CB03-39	05CB03-34	05CB03-25	05CB03-96	05CB03-43	05CB03-89	05CB03-49	05CB03-50
Sample Interval:		10'-15'	9'-14'	9'-14'	11'-16'	12'-17'	14'-19'	13'-18'	11.5'-16.5'	8.5'-13.5'	8.6'-13.6'	11'-16'	11'-16'
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/14/2005	2/15/2005	2/15/2005	2/16/2005	2/17/2005	2/17/2005	2/16/2005	2/23/2005	2/18/2005	2/23/2005	2/18/2005	2/18/2005
BROMOMETHANE	µg/L	2.8 U	2.8 U	2.8 U	14 U	2.8 U	14 U	14 U	140 U	2.8 U	2.8 U	2.8 U	2.8 U
CARBON DISULFIDE	µg/L	2.5 U	2.5 U	2.5 U	12.5 U	2.5 U	10.1 J	12.5 U	125 U	2.5 U	2.5 U	2.5 U	2.5 U
CARBON TETRACHLORIDE	µg/L	1.4 U	1.4 U	1.4 U	7 U	1.4 U	7 U	7 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	µg/L	0.9 J	3.2	1.4 U	126	6.5	27.2	123	70 U	43.9	5.8	13.8	11.9
CHLOROETHANE	µg/L	5.9 U	5.9 U	5.9 U	34.2	5.9 U	50.2	87.6	295 U	20	5.9 U	5.9 U	0.76 J
CHLOROFORM	µg/L	2.4 U	2.4 U	2.4 U	5.5 J	2.4 U	12 U	1.8 J	120 U	31.2	2.4 U	2.4 U	2.4 U
CHLOROMETHANE	µg/L	0.46 J	3.2 U	3.2 U	16 U	3.2 U	16 U	16 U	160 U	3.2 U	3.2 U	3.2 U	3.2 U
CIS-1,3-DICHLOROPROPENE	µg/L	1.4 U	1.4 U	1.4 U	7 U	1.4 U	7 U	7 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U
CYCLOHEXANE	µg/L	0.98 J	3.5 U	0.7 J	80.9	3.5 U	271	53.9	115 J	28.6	50.5	0.43 J	3.5 U
DIBROMOCHLOROMETHANE	µg/L	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	8.5 U	8.5 U	85 U	1.7 U	1.7 U	1.7 U	1.7 U
DICHLORODIFLUOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
DIMETHYL BENZENE	µg/L	1.7 U	1.7 U	1.7 U	13.9	1.7 U	38.7	9.4	85 U	2.2	2	1.2 J	1.1 J
ETHYLBENZENE	µg/L	1.5 U	1.5 U	0.44 J	5.4 J	1.5 U	15.6	2.8 J	75 U	0.89 J	2	1.5 U	1.5 U
ISOPROPYLBENZENE (CUMENE)	µg/L	3.5 U	3.5 U	0.37 J	17.5 U	3.5 U	2.2 J	17.5 U	175 U	3.5 U	0.38 J	3.5 U	3.5 U
METHYL ACETATE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 UJ	3.5 UJ
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	7.4 U	7.4 U	2 J	37 U	7.4 U	37 U	37 U	370 U	7.4 U	7.4 U	7.4 U	7.4 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
METHYLCYCLOHEXANE	µg/L	3.5 U	3.5 U	0.73 J	18.8	3.5 U	84.6	3.6 J	39.1 J	2.6 J	17.4	3.5 U	3.5 U
METHYLENE CHLORIDE	µg/L	3.1 U	3.1 U	3.1 U	11.9 J	3.1 U	26.6	13.4 J	155 U	10.7	3.1 U	3.1 U	3.1 U
STYRENE	µg/L	1.4 U	1.4 U	1.4 U	7 U	1.4 U	7 U	7 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U
TETRACHLOROETHYLENE(PCE)	µg/L	1.4 U	1.4 U	1.4 U	12.2	1.4 U	13.3	7 U	70 U	7.5	1.4 U	1.4 U	1.4 U
TOLUENE	µg/L	0.35 J	1 U	0.18 J	91.9	0.35 J	265	70.8	169	25.8	1.8	0.99 J	0.94 J
TRANS-1,3-DICHLOROPROPENE	µg/L	1.5 U	1.5 U	1.5 U	7.5 U	1.5 U	7.5 U	7.5 U	75 U	1.5 U	1.5 U	1.5 U	1.5 U
TRICHLOROETHYLENE (TCE)	µg/L	1.6 U	1.6 U	1.6 U	31.9	9.4	9.5	12.8	18.6 J	1,440	30.6	1.1 J	0.99 J
TRICHLOROFLUOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	17.5 U	3.5 U	17.5 U	17.5 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U
VINYL CHLORIDE	µg/L	3.5 U	3.5 U	3.5 U	14.6 J	3.5 U	31.4	21.7	92.1 J	78.1	1.7 J	0.69 J	0.7 J
Wet Chemistry													
ALKALINITY, BICARBONATE (AS $CACO_3$)	mg/L	832 J	412 J	417 J	490	692	500	0.5 U	576	380	546	360	364
ALKALINITY, CARBONATE (AS $CACO_3$)	mg/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	62	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ALKALINITY, TOTAL (AS $CACO_3$)	mg/L	832 J	412 J	417 J	490	692	500	27	576	380	546	360	364
CHLORIDE (AS CL)	mg/L	280 R*	68.2 R*	527 R*	883	695 J	2,420	1,550	461	956 J	28.4 J	441	447
NITROGEN, NITRATE (AS N)	mg/L	0.0201 R*	0.0486 R*	0.0428 R*	0.0201 U	0.0201 U	0.0201 U	0.0619 J	0.0201 UJ	0.0318 J	0.0201 UJ	0.0201 UJ	0.0201 UJ
SULFATE (AS SO_4)	mg/L	198 R*	1,340 R*	867 R*	1,620	88.3 J	1,670	688	1,010	1,280 J	389	236	214

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TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-21	SBS-22	SBS-23	SBS-23
Field Sample Identification:		05CB03-62	05CB03-58	05CB03-52	05CB03-64	05CB03-55	05CB03-67	05CB03-69	05CB03-80	05CB03-85	05CB03-93	05CB03-97
Sample Interval:		8.6'-13.6'	15'-18'	16.4'-21.4'	10'-15'	11'-16'	12'-17'	13'-18'	N/A	8.3'-13.3'	8.6'-13.6'	8.6'-13.6'
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/19/2005	2/19/2005	2/18/2005	2/19/2005	2/19/2005	2/20/2005	2/20/2005	2/21/2005	2/21/2005	2/22/2005	2/22/2005
Metals	**Units**											
ALUMINUM	µg/L	165	373	1270	289	90.2 J	215	198	600 U	104 U	97 J	59.8 J
ANTIMONY	µg/L	2.3 U	2.36 U	2.3 U	2.88 U	2.3 U	2.3 U	2.3 U	92 U	2.3 U	3.24 U	4.21 U
ARSENIC	µg/L	7.73	58.8	25.3	2.78 J	6.5	17.1	9.67	14	33.9	14	16.5
BARIUM	µg/L	91.9	52	146	39.1	49.3	543	107	1,170	101	95.9	104
BERYLLIUM	µg/L	0.2 U	0.283 U	0.22 U	0.363 U	0.218 U	0.2 U	0.2 U	8.64 J	0.2 U	0.2 U	0.2 U
CADMIUM	µg/L	5.56 J	0.35 U	1.75 UJ	0.438 U	0.593 J	27 J	1.75 UJ	14 U	1.75 UJ	1.12	0.927 J
CALCIUM	µg/L	793,000 J	72,500	302,000 J	141,000	178,000	2,470,000 J	679,000 J	6,250,000	354,000 J	202,000	197,000
CHROMIUM, TOTAL	µg/L	1.3 U	4.15	6.33	2.03 J	2.9	5.32	4.82	52 U	1.3 U	1.3 U	1.3 U
COBALT	µg/L	7.43	1.12 J	7.64	2.01 J	13.6	11.8	5.98	30.4 U	2.52 J	11.4	10.8
COPPER	µg/L	5.06	13.8	9.04	3.96 J	6.72	5.79	3.89 J	24.8 U	2.1 J	2.24 J	1.62 J
CYANIDE	µg/L	5.1 U	9.01 U	4.52 U	6.26 U	16.2 U	6.84 U	7.65 U	NR	NR	3.7 U	4.61 J
IRON	µg/L	1,980	3,560	9,000	864	2,430	10,600	2,580	34,200	4,950	32,600	34,200
LEAD	µg/L	11 UJ	6.8 J	12.3 J	2.75 U	2.2 UJ	22 UJ	12.9 J	88 U	11 UJ	2.2 U	2.2 U
MAGNESIUM	µg/L	97,400	260,000 J	290,000 J	84,200	324,000 J	155,000	285,000 J	436,000	232,000	318,000 J	354,000 J
MANGANESE	µg/L	2,700	248 J	1,890 J	2,860	1,060 J	34,600 J	9,290 J	2,680	406	1,720 J	1,930 J
MERCURY	µg/L	0.0786 J	0.0619 J	0.0656 J	0.063 J	0.0802 J	0.0289 J	0.0473 J	0.0517 J	0.0397 J	0.276 J	0.189 J
NICKEL	µg/L	23.1 J	15.4	42.7 J	6.83	92.5	68.1 J	34.3 J	68 U	9.51 J	106	104
POTASSIUM	µg/L	104,000	25,700	57,800	15,300	60,600	35,100	5,130	531,000	56,000	20,000	19,600
SELENIUM	µg/L	13 UJ	2.6 U	13 UJ	3.25 U	2.6 U	78.3 J	13 UJ	158 J	13 UJ	5.49 U	4.64 U
SILICA	mg/L	6.3 J	17.3 J	22.2 J	8.3 J	7.3 J	11.5 J	12.4 J	9.2 J	13.9 J	16.5 J	16.1 J
SILVER	µg/L	1.04 U	0.65 U	0.65 U	0.812 U	0.65 U	4.19 U	1.99 U	26 U	0.65 U	1.18 J	0.65 U
SODIUM	µg/L	669,000 J	59,700 J	249,000	22,900	266,000 J	773,000 J	186,000 J	2,210,000	288,000 J	140,000	137,000
THALLIUM	µg/L	21 UJ	4.2 U	4.2 U	26.2 UJ	4.2 U	42 UJ	21 UJ	168 U	21 UJ	21 UJ	21 UJ
VANADIUM	µg/L	1.1 U	2.62 J	3.11	1.38 U	1.12 J	1.1 U	1.1 U	44 U	1.1 U	1.67 J	1.87 J
ZINC	µg/L	15 J	11.9 J	37.8 J	1.18 U	4.7 UJ	9.4 UJ	4.7 UJ	37.6 U	4.7 UJ	4.7 UJ	14.7 UJ
Pesticides/PBB/HBB												
HEXABROMOBENZENE	µg/L	0.12 UJ	0.52 J	0.14	0.12 UJ	0.11 U	0.11 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.11 UJ	0.11 UJ
HEXABROMOBIPHENYL	µg/L	0.12 U	0.11 U	0.12 U	0.14	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U
O,P'-DDD	µg/L	0.41	36	0.46	0.52	0.26	0.21	0.4 J	0.12 U	0.12 J	0.11 U	0.11 U
O,P'-DDE	µg/L	0.12 U	4.1 J	0.16	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U
O,P'-DDT	µg/L	0.1 J	9.7	0.39	0.27	0.11 U	0.11 U	0.19	0.12 U	0.12 U	0.11 U	0.11 U
P,P'-DDD	µg/L	0.45	42	0.12 U	0.97	0.11 U	0.27	0.49 J	0.12 U	0.12 U	0.11 U	0.11 U
P,P'-DDE	µg/L	0.062 J	12	0.88	0.26 J	0.11 U	0.11 U	0.034 J	0.12 U	0.12 U	0.11 U	0.11 U
P,P'-DDT	µg/L	0.46	40	2	0.6	0.14	0.18	0.65 J	0.12 U	0.074 J	0.11 U	0.11 U
Semivolatile Organic Compounds												
2,4,5-TRICHLOROPHENOL	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 U
2,4,6-TRICHLOROPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
2,4-DICHLOROPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
2,4-DIMETHYLPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
2,4-DINITROPHENOL	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ
2,4-DINITROTOLUENE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
2,6-DINITROTOLUENE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
2-CHLORONAPHTHALENE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
2-CHLOROPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
2-METHYLNAPHTHALENE	µg/L	10.3 UJ	10.8 J	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
2-METHYLPHENOL (O-CRESOL)	µg/L	10.3 UJ	8.3 J	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
2-NITROANILINE	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 U	25 U
2-NITROPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
3,3'-DICHLOROBENZIDINE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
3-NITROANILINE	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 U
4,6-DINITRO-2-METHYLPHENOL	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ
4-BROMOPHENYL PHENYL ETHER	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
4-CHLORO-3-METHYLPHENOL	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
4-CHLOROANILINE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
4-CHLOROPHENYL PHENYL ETHER	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 U	10.3 U	10 U	10 U
4-METHYLPHENOL (P-CRESOL)	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
4-NITROANILINE	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 U
4-NITROPHENOL	µg/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ
ACENAPHTHENE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
ACENAPHTHYLENE	µg/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-21	SBS-22	SBS-23	SBS-23
Field Sample Identification:		05CB03-62	05CB03-58	05CB03-52	05CB03-64	05CB03-55	05CB03-67	05CB03-69	05CB03-80	05CB03-85	05CB03-93	05CB03-97
Sample Interval:		8.6'-13.6'	15'-18'	16.4'-21.4'	10'-15'	11'-16'	12'-17'	13'-18'	N/A	8.3'-13.3'	8.6'-13.6'	8.6'-13.6'
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/19/2005	2/19/2005	2/18/2005	2/19/2005	2/19/2005	2/20/2005	2/20/2005	2/21/2005	2/21/2005	2/22/2005	2/22/2005
ACETOPHENONE	g/L	1.2 J	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
ANTHRACENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
BENZALDEHYDE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BENZO(A)ANTHRACENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BENZO(A)PYRENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
BENZO(B)FLUORANTHENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BENZO(G,H,I)PERYLENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BENZO(K)FLUORANTHENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BENZYL BUTYL PHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
BIPHENYL (DIPHENYL)	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BIS(2-CHLOROETHOXY) METHANE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
BIS(2-CHLOROISOPROPYL) ETHER	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
BIS(2-ETHYLHEXYL) PHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
CAPROLACTAM	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
CARBAZOLE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
CHRYSENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
DIBENZ(A,H)ANTHRACENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
DIBENZOFURAN	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
DIETHYL PHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 U	10.3 U	10 U	10 U
DIMETHYL PHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
DI-N-BUTYL PHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
DI-N-OCTYLPHTHALATE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
FLUORANTHENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
FLUORENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 U	10.3 U	10 U	10 U
HEXACHLOROBENZENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 U
HEXACHLOROBUTADIENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
HEXACHLOROCYCLOPENTADIENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
HEXACHLOROETHANE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
INDENO(1,2,3-C,D)PYRENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
ISOPHORONE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
NAPHTHALENE	g/L	10.3 UJ	6.6 J	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
NITROBENZENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
N-NITROSODI-N-PROPYLAMINE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
N-NITROSODIPHENYLAMINE	g/L	10.3 U	10.2 U	10.3 U	10.3 U	10.2 U	10.2 U	10.2 U	10.3 U	10.3 U	10 U	10 U
PENTACHLOROPHENOL	g/L	25.8 UJ	25.6 UJ	25.8 UJ	25.8 UJ	25.5 UJ	25.6 UJ	25.5 UJ	25.8 UJ	25.8 UJ	25 UJ	25 UJ
PHENANTHRENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
PHENOL	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 UJ	10 UJ
PYRENE	g/L	10.3 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	10.3 UJ	10.3 UJ	10 U	10 U
Volatile Organic Compounds												
1,1,1-TRICHLOROETHANE	g/L	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	36 U	90 U
1,1,2,2-TETRACHLOROETHANE	g/L	2.5 U	25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	50 U	125 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	g/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
1,1,2-TRICHLOROETHANE	g/L	2.1 U	21 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	42 U	105 U
1,1-DICHLOROETHANE	g/L	5.1	13.3 J	4.4	0.54 J	16.2	2.2 U	4.3	2.2 U	2.2 U	7.5 J	110 U
1,1-DICHLOROETHENE	g/L	2.9 U	29 U	1.8 J	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	58 U	145 U
1,2,4-TRICHLOROBENZENE	g/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
1,2-DIBROMO-3-CHLOROPROPANE	g/L	3.5 UJ	35 U	3.5 U	3.5 UJ	3.5 U	3.5 UJ	3.5 UJ	3.5 U	3.5 U	982	1,370
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	g/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	10 J	12.4 J
1,2-DICHLOROBENZENE	g/L	3.5 U	35 U	2.7 J	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
1,2-DICHLOROETHANE	g/L	10.1	17 U	1.7 U	24.3	1.7 U	1.7 U	1.7 U	623	1.7 U	25.8 J	29.8 J
1,2-DICHLOROETHYLENES	g/L	3.2	54.5	97	2.8	3.6	2.2 U	3.9	2.2 U	1.9 J	44 U	110 U
1,2-DICHLOROPROPANE	g/L	2.2 U	22 U	2.2 U	0.38 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	76.7	82.8 J
1,3-DICHLOROBENZENE	g/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
1,4-DICHLOROBENZENE	g/L	0.33 J	4.4 J	6.2	3.5 U	0.38 J	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
2-HEXANONE	g/L	4.6 U	46 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	92 U	230 U
ACETONE	g/L	4.8 J	56 UJ	6.9 J	5.6 U	5.7 J	5.6 U	5.6 U	9	20.9	224	217 J
BENZENE	g/L	89.2	24,000	829	7.7	110	0.26 J	1.6	561	179	6.7 J	27.2
BROMOCHLOROMETHANE	g/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	10.8 J	175 U
BROMODICHLOROMETHANE	g/L	1.6 U	16 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	16.5 J	21.5 J
BROMOFORM	g/L	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	204	271

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-21	SBS-22	SBS-23	SBS-23
Field Sample Identification:		05CB03-62	05CB03-58	05CB03-52	05CB03-64	05CB03-55	05CB03-67	05CB03-69	05CB03-80	05CB03-85	05CB03-93	05CB03-97
Sample Interval:		8.6'-13.6'	15'-18'	16.4'-21.4'	10'-15'	11'-16'	12'-17'	13'-18'	N/A	8.3'-13.3'	8.6'-13.6'	8.6'-13.6'
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/19/2005	2/19/2005	2/18/2005	2/19/2005	2/19/2005	2/20/2005	2/20/2005	2/21/2005	2/21/2005	2/22/2005	2/22/2005
BROMOMETHANE	µg/L	2.8 UJ	28 U	2.8 U	2.8 UJ	2.8 U	2.8 UJ	2.8 UJ	2.8 U	2.8 U	56 U	140 U
CARBON DISULFIDE	µg/L	2.5 U	25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	50 U	125 U
CARBON TETRACHLORIDE	µg/L	1.4 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U
CHLOROBENZENE	µg/L	569	299	27.1	2.7	490	0.93 J	1.4 U	1.4 U	66.2	14.5 J	70 U
CHLOROETHANE	µg/L	2.4 J	59 U	5.2 J	5.9 U	41.6	5.9 U	0.84 J	0.8 J	5.9 U	118 U	295 U
CHLOROFORM	µg/L	2.4 U	24 U	2.4 U	0.93 J	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	594	643
CHLOROMETHANE	µg/L	3.2 U	32 U	3.2 U	0.66 J	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	64 U	160 U
CIS-1,3-DICHLOROPROPENE	µg/L	1.4 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U
CYCLOHEXANE	µg/L	0.89 J	34.3 J	0.88 J	3.5 U	0.9 J	3.5 U	3.5 U	4.4	58.9	70 U	175 U
DIBROMOCHLOROMETHANE	µg/L	1.7 U	17 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	13.2 J	18.2 J
DICHLORODIFLUOROMETHANE	µg/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
DIMETHYL BENZENE	µg/L	0.45 J	219	3.8	1.7 U	2.2	1.7 U	1.7 U	0.54 J	10.4	34 U	85 U
ETHYLBENZENE	µg/L	1.4 J	118	25.2	1.5 U	1.1 J	1.5 U	1.5 U	0.47 J	30.9	30 U	75 U
ISOPROPYLBENZENE (CUMENE)	µg/L	3.5 U	10.5 J	2.3 J	3.5 U	0.5 J	3.5 U	3.5 U	3.5 U	5.6	70 U	175 U
METHYL ACETATE	µg/L	3.5 UJ	35 UJ	3.5 UJ	3.5 UJ	3.5 UJ	3.5 UJ	3.5 UJ	3.5 U	3.5 U	70 U	175 U
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	7.4 U	74 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	4.5 J	7.4 U	148 U	370 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
METHYLCYCLOHEXANE	µg/L	3.5 U	78.6	0.87 J	3.5 U	0.83 J	3.5 U	3.5 U	2.5 J	38.6	70 U	175 U
METHYLENE CHLORIDE	µg/L	0.35 J	31 U	0.87 J	3.1 U	1.8 J	3.1 U	3.1 U	0.95 J	3.1 U	40.1 J	155 U
STYRENE	µg/L	1.4 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U
TETRACHLOROETHYLENE(PCE)	µg/L	1.4 U	14 U	1.4 U	0.94 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	40.6	42.8 J
TOLUENE	µg/L	0.98 J	4,800	2.4	0.19 J	5.6	1 U	1 U	5.4	7.9	8.1 J	50 U
TRANS-1,3-DICHLOROPROPENE	µg/L	1.5 U	15 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	30 U	75 U
TRICHLOROETHYLENE (TCE)	µg/L	2.1	10.2 J	36.5	16.5	3.2	1.6 U	1.6 U	1.6 U	2.2	117	126
TRICHLOROFLUOROMETHANE	µg/L	3.5 U	35 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U
VINYL CHLORIDE	µg/L	2.2 J	52.9	212	3.5 UJ	4.9	3.5 UJ	0.73 J	12.4	3.5 U	70 U	175 U
Wet Chemistry												
ALKALINITY, BICARBONATE (AS $CACO_3$)	mg/L	230	434	444	357	591	441	361	130	573	397	402
ALKALINITY, CARBONATE (AS $CACO_3$)	mg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ALKALINITY, TOTAL (AS $CACO_3$)	mg/L	230	434	444	357	591	441	361	130	573	397	402
CHLORIDE (AS CL)	mg/L	2310	313	1,200	138	1,000	2,980	649	16,100	624	453	393
NITROGEN, NITRATE (AS N)	mg/L	0.404 J	0.0201 U	0.0201 UJ	0.0201 U	0.0201 U	0.0878 U	0.0201 U	0.0201 U	0.0201 U	0.0201 UJ	0.0201 UJ
SULFATE (AS SO_4)	mg/L	183	28.3	195	118	219	285	1,190	127	490	1,920	1,880

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

	Field Sample Location:	SBS-24	SBS-26	SBS-27	SBS-28	SBS-29	SBS-29
	Field Sample Identification:	05CB03-92	05CB25-24	05CB25-27	05CB25-35	05CB25-37	05CB25-40
	Sample Interval:	8.4'-13.4'	28'-33'	15'-20'	12.05'-17.05'	12.87'-17.87'	12.87'-17.87'
	Matrix:	Water	Water	Water	Water	Water	Water, Dup
	Sample Collection Date:	2/22/2005	3/19/2005	3/23/2005	4/7/2005	4/7/2005	4/7/2005
Metals	**Units**						
ALUMINUM	µg/L	81 J	84.1 J	358 J	850 U	1,120	565 U
ANTIMONY	µg/L	2.3 U	2.3 U	23 U	2.3 U	2.3 U	2.3 U
ARSENIC	µg/L	19.6	11.2 U	25.5 J	6.06 U	3.03 U	2.7 U
BARIUM	µg/L	103	438	260	133	165	163
BERYLLIUM	µg/L	0.2 U	0.31 U	4.94 J	0.2 U	0.239 U	0.289 U
CADMIUM	µg/L	1.75 UJ	0.35 U	3.5 U	2.84	0.35 U	0.35 U
CALCIUM	µg/L	576,000 J	900,000 J	1,660,000 J	1,080,000 J	293,000 J	291,000 J
CHROMIUM, TOTAL	µg/L	1.3 U	1.3 U	13 U	2.5	3.29	2.86
COBALT	µg/L	20.1	0.76 U	7.6 U	45.2	13.7	13.5
COPPER	µg/L	2.82 J	4.25 U	15 J	1,190	168	166
CYANIDE	µg/L	11.8 J	3.7 U	3.7 U	6.31 J	15.3 J	4.34 J
IRON	µg/L	26,800	1,740	92 U	608	2,010	2,240
LEAD	µg/L	11 UJ	22 UJ	44 UJ	44 UJ	2.2 U	2.2 U
MAGNESIUM	µg/L	232,000	350,000 J	237,000	190,000	191,000	188,000
MANGANESE	µg/L	5,220 J	306	151	4,800	3,720	3,680
MERCURY	µg/L	0.0856 J	0.126 J	0.025 U	1.04	0.0718 J	0.0642 J
NICKEL	µg/L	101 J	29.6 J	34 UJ	640 J	167 J	174 J
POTASSIUM	µg/L	39,000	46,100	344,000	38,100 J	17,400	17,100
SELENIUM	µg/L	13 UJ	26 UJ	118 J	52 UJ	13 UJ	13 UJ
SILICA	mg/L	16 J	9.39 J	4.32 J	21.3 J	15.4 J	15.6 J
SILVER	µg/L	1.83 U	1.64 U	6.5 U	2.86 U	0.999 U	0.753 U
SODIUM	µg/L	266,000 J	757,000 J	2,000,000	190,000	154,000	152,000
THALLIUM	µg/L	21 UJ	42 UJ	84 UJ	84 UJ	21 UJ	21 UJ
VANADIUM	µg/L	1.1 U	1.1 U	11 U	1.1 U	1.1 U	1.1 U
ZINC	µg/L	11.4 UJ	0.94 U	9.4 U	18,000 J	258	248
Pesticides/PBB/HBB							
HEXABROMOBENZENE	µg/L	0.12 UJ	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U
HEXABROMOBIPHENYL	µg/L	0.12 U	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U
O,P'-DDD	µg/L	0.054 J	0.11 UJ	0.1 U	0.1 U	0.1 U	0.1 U
O,P'-DDE	µg/L	0.12 U	0.11 UJ	0.1 U	0.1 U	0.1 U	0.1 U
O,P'-DDT	µg/L	0.12 U	0.11 UJ	0.1 U	0.1 U	0.1 U	0.1 U
P,P'-DDD	µg/L	0.12 U	0.11 UJ	0.1 U	0.1 U	0.1 U	0.1 U
P,P'-DDE	µg/L	0.12 U	0.11 UJ	0.1 U	0.1 U	0.1 U	0.1 U
P,P'-DDT	µg/L	0.12 U	0.11 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Semivolatile Organic Compounds							
2,4,5-TRICHLOROPHENOL	µg/L	25 U	29.4 UJ	25 UJ	29.4 UJ	29.8 UJ	29.8 UJ
2,4,6-TRICHLOROPHENOL	µg/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
2,4-DICHLOROPHENOL	µg/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
2,4-DIMETHYLPHENOL	µg/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
2,4-DINITROPHENOL	µg/L	25 UJ	29.4 UJ	25 UJ	29.4 UJ	29.8 UJ	29.8 UJ
2,4-DINITROTOLUENE	µg/L	10 UJ	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
2,6-DINITROTOLUENE	µg/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
2-CHLORONAPHTHALENE	µg/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
2-CHLOROPHENOL	µg/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
2-METHYLNAPHTHALENE	µg/L	10 UJ	7.5 J	10 U	11.8 UJ	11.9 UJ	11.9 UJ
2-METHYLPHENOL (O-CRESOL)	µg/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
2-NITROANILINE	µg/L	25 U	29.4 UJ	25 U	29.4 UJ	29.8 UJ	29.8 UJ
2-NITROPHENOL	µg/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
3,3'-DICHLOROBENZIDINE	µg/L	10 UJ	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
3-NITROANILINE	µg/L	25 U	29.4 UJ	25 U	29.4 UJ	29.8 UJ	29.8 UJ
4,6-DINITRO-2-METHYLPHENOL	µg/L	25 UJ	29.4 UJ	25 UJ	29.4 UJ	29.8 UJ	29.8 UJ
4-BROMOPHENYL PHENYL ETHER	µg/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
4-CHLORO-3-METHYLPHENOL	µg/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
4-CHLOROANILINE	µg/L	10 UJ	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
4-CHLOROPHENYL PHENYL ETHER	µg/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
4-METHYLPHENOL (P-CRESOL)	µg/L	10 UJ	11.8 UJ	12.9 UJ	11.8 UJ	11.9 UJ	11.9 UJ
4-NITROANILINE	µg/L	25 U	29.4 UJ	25 U	29.4 UJ	29.8 UJ	29.8 UJ
4-NITROPHENOL	µg/L	25 UJ	29.4 UJ	25 UJ	29.4 UJ	29.8 UJ	29.8 UJ
ACENAPHTHENE	µg/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
ACENAPHTHYLENE	µg/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ

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TABLE 3-2
Shallow Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-24	SBS-26	SBS-27	SBS-28	SBS-29	SBS-29
Field Sample Identification:		05CB03-92	05CB25-24	05CB25-27	05CB25-35	05CB25-37	05CB25-40
Sample Interval:		8.4'-13.4'	28'-33'	15'-20'	12.05'-17.05'	12.87'-17.87'	12.87'-17.87'
Matrix:		Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/22/2005	3/19/2005	3/23/2005	4/7/2005	4/7/2005	4/7/2005
ACETOPHENONE	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
ANTHRACENE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZALDEHYDE	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
BENZO(A)ANTHRACENE	g/L	10 UJ	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZO(A)PYRENE	g/L	10 U	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZO(B)FLUORANTHENE	g/L	10 UJ	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZO(G,H,I)PERYLENE	g/L	10 UJ	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZO(K)FLUORANTHENE	g/L	10 UJ	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BENZYL BUTYL PHTHALATE	g/L	10 U	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BIPHENYL (DIPHENYL)	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
BIS(2-CHLOROETHOXY) METHANE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
BIS(2-CHLOROISOPROPYL) ETHER	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	g/L	10 U	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
CAPROLACTAM	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
CARBAZOLE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
CHRYSENE	g/L	10 UJ	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
DIBENZ(A,H)ANTHRACENE	g/L	10 UJ	11.8 U	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
DIBENZOFURAN	g/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
DIETHYL PHTHALATE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
DIMETHYL PHTHALATE	g/L	10 U	11.8 UJ	10 UJ	3.8 J	11.9 UJ	11.9 UJ
DI-N-BUTYL PHTHALATE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
DI-N-OCTYLPHTHALATE	g/L	10 U	11.8 U	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
FLUORANTHENE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
FLUORENE	g/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
HEXACHLOROBENZENE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
HEXACHLOROBUTADIENE	g/L	10 UJ	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
HEXACHLOROCYCLOPENTADIENE	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
HEXACHLOROETHANE	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
INDENO(1,2,3-C,D)PYRENE	g/L	10 UJ	11.8 U	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
ISOPHORONE	g/L	10 U	11.8 UJ	5.2 J	11.8 UJ	11.9 UJ	11.9 UJ
NAPHTHALENE	g/L	10 UJ	3.5 J	3.3 J	11.8 UJ	11.9 UJ	11.9 UJ
NITROBENZENE	g/L	10 UJ	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
N-NITROSODI-N-PROPYLAMINE	g/L	10 U	11.8 UJ	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
N-NITROSODIPHENYLAMINE	g/L	10 U	11.8 U	10 UJ	11.8 UJ	11.9 UJ	11.9 UJ
PENTACHLOROPHENOL	g/L	25 UJ	29.4 UJ	25 U	29.4 UJ	29.8 UJ	29.8 UJ
PHENANTHRENE	g/L	10 U	11.8 UJ	10 U	11.8 UJ	11.9 UJ	11.9 UJ
PHENOL	g/L	5.2 J	3.3 J	10 UJ	25.3 J	11.9 UJ	11.9 UJ
PYRENE	g/L	10 U	11.8 U	10 U	11.8 UJ	11.9 UJ	11.9 UJ
Volatile Organic Compounds							
1,1,1-TRICHLOROETHANE	g/L	2.5 J	1.8 U	1.8 U	73.7 J	18 U	9 U
1,1,2,2-TETRACHLOROETHANE	g/L	12.5 U	2.5 U	2.5 U	108 J	25 U	12.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	g/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
1,1,2-TRICHLOROETHANE	g/L	10.5 U	2.1 U	2.1 U	105 U	21 U	10.5 U
1,1-DICHLOROETHANE	g/L	23	2.2 U	0.41 J	32.4 J	6.6 J	8.4 J
1,1-DICHLOROETHENE	g/L	11.4 J	2.9 U	2.9 U	145 U	29 U	7.6 J
1,2,4-TRICHLOROBENZENE	g/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
1,2-DIBROMO-3-CHLOROPROPANE	g/L	356	3.5 U	3.5 U	5460	35 U	17.5 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	g/L	2.2 J	3.5 U	3.5 U	107 J	35 U	17.5 U
1,2-DICHLOROBENZENE	g/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
1,2-DICHLOROETHANE	g/L	1,470	1.7 U	7.1	1,340	134	144
1,2-DICHLOROETHYLENES	g/L	264	2.2 U	126	15.9 J	26.4 J	26.1 J
1,2-DICHLOROPROPANE	g/L	14.1	2.2 U	3.3	299	19.4 J	21.4
1,3-DICHLOROBENZENE	g/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
1,4-DICHLOROBENZENE	g/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
2-HEXANONE	g/L	23 U	4.6 U	4.6 U	230 U	46 U	23 U
ACETONE	g/L	28 U	14.7 U	33.5	280 U	56 U	28 U
BENZENE	g/L	3,300	3.4	9	54.5	262	266
BROMOCHLOROMETHANE	g/L	11.9 J	3.5 U	3.5 U	434	35 U	2.9 J
BROMODICHLOROMETHANE	g/L	8 U	1.6 U	1.6 U	52,100	11.2 J	12
BROMOFORM	g/L	9 U	1.8 U	1.8 U	7,210	18 U	9 U

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Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-24	SBS-26	SBS-27	SBS-28	SBS-29	SBS-29
Field Sample Identification:		05CB03-92	05CB25-24	05CB25-27	05CB25-35	05CB25-37	05CB25-40
Sample Interval:		8.4'-13.4'	28'-33'	15'-20'	12.05'-17.05'	12.87'-17.87'	12.87'-17.87'
Matrix:		Water	Water	Water	Water	Water	Water, Dup
Sample Collection Date:		2/22/2005	3/19/2005	3/23/2005	4/7/2005	4/7/2005	4/7/2005
BROMOMETHANE	µg/L	14 U	2.8 U	2.8 U	140 U	28 U	14 U
CARBON DISULFIDE	µg/L	12.5 U	0.92 J	5	1,030	25 U	12.5 U
CARBON TETRACHLORIDE	µg/L	7 U	1.4 U	1.4 U	252,000	29.9	27.2
CHLOROBENZENE	µg/L	51.4	0.73 J	0.82 J	70 U	23.3	23.8
CHLOROETHANE	µg/L	39.3	5.9 U	5.9 U	295 U	59 U	29.5 U
CHLOROFORM	µg/L	43.4	2.4 U	2.4 U	49,800	62.8	66.5
CHLOROMETHANE	µg/L	16 U	3.2 U	3.2 U	160 U	32 U	16 U
CIS-1,3-DICHLOROPROPENE	µg/L	7 U	1.4 U	1.4 U	70 U	14 U	7 U
CYCLOHEXANE	µg/L	36.4	7.4	0.42 J	175 U	35 U	17.5 U
DIBROMOCHLOROMETHANE	µg/L	8.5 U	1.7 U	1.7 U	18,400	4.2 J	4.6 J
DICHLORODIFLUOROMETHANE	µg/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
DIMETHYL BENZENE	µg/L	8.5 U	35.8	2	85 U	17 U	4.2 J
ETHYLBENZENE	µg/L	7.5 U	7.6	0.65 J	75 U	15 U	7.5 U
ISOPROPYLBENZENE (CUMENE)	µg/L	17.5 U	2 J	3.5 U	175 U	35 U	17.5 U
METHYL ACETATE	µg/L	17.5 U	3.5 U	3.5 U	175 U	35 U	17.5 U
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	37 U	4.2 J	9.8	370 U	74 U	37 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	17.5 U	3.5 U	72.1	175 U	35 U	17.5 U
METHYLCYCLOHEXANE	µg/L	17.5 U	7.8	3.5 U	175 U	35 U	17.5 U
METHYLENE CHLORIDE	µg/L	19.4	3.1 U	0.8 J	1,420	9.5 J	9 J
STYRENE	µg/L	7 U	1.4 U	1.4 U	70 U	14 U	7 U
TETRACHLOROETHYLENE(PCE)	µg/L	5.6 J	1.4 U	1.4 U	645	12.2 J	13.4
TOLUENE	µg/L	35.6	18.1	16.3	50 U	5.1 J	5.1
TRANS-1,3-DICHLOROPROPENE	µg/L	7.5 U	1.5 U	1.5 U	75 U	15 U	7.5 U
TRICHLOROETHYLENE (TCE)	µg/L	1,500	1.6 U	132	12,400	5,770	5,410
TRICHLOROFLUOROMETHANE	µg/L	17.5 U	3.5 U	2.3 J	175 U	35 U	17.5 U
VINYL CHLORIDE	µg/L	38.7	3.5 U	133	175 U	35 U	17.5 U
Wet Chemistry							
ALKALINITY, BICARBONATE (AS $CACO_3$)	mg/L	362	104	59	370	499	507
ALKALINITY, CARBONATE (AS $CACO_3$)	mg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ALKALINITY, TOTAL (AS $CACO_3$)	mg/L	362	104	59	370	499	507
CHLORIDE (AS CL)	mg/L	905	4,180	4,890	2,360	872	885
NITROGEN, NITRATE (AS N)	mg/L	0.368 J	0.0399 J	0.0201 U	0.0269 J	0.0316 J	0.0781 J
SULFATE (AS SO_4)	mg/L	1,890	140	104	999	224	220

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