TABLE 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-01	SBS-02	SBS-02	SBS-03	SBS-03	SBS-03	SBS-04	SBS-04	SBS-05	SBS-06	SBS-07	SBS-08	SBS-08
Field Sample Identification:		05CB03-13	05CB03-14	05CB03-15	05CB03-22	05CB03-21	05CB03-20	05CB03-36	05CB03-37	05CB03-32	05CB03-38	05CB03-33	05CB03-26	05CB03-27
Sample Interval:		8'-12'	13'-14.5'	14.5'-15'	10.5'-13'	11.5'-12'	11'-11.5'	10'-12'	12'-14'	14'-16'	14'-15'	16'-18'	16'-18'	16'-18'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
Sample Collection Date:		2/14/2005	2/14/2005	2/14/2005	2/15/2005	2/15/2005	2/15/2005	2/17/2005	2/17/2005	2/16/2005	2/17/2005	2/16/2005	2/16/2005	2/16/2005
Metals	**Units**													
ALUMINUM	mg/kg	5,260 J	2,680 J	NR	2,320 J	NR	NR	3,640	6,840 J	888 `	2,710	226	NR	NR
ANTIMONY	mg/kg	0.61 J	1.93 J	NR	0.639 J	NR	NR	11.6	16.9 J	1.26 U	0.444 U	1.07 U	NR	NR
ARSENIC	mg/kg	3.36 J	11.5 J	NR	11.1 J	NR	NR	48.4	104 J	6.31	1.52	3.27	NR	NR
BARIUM	mg/kg	18.7 J	80.4 J	NR	27.4 J	NR	NR	333	151 J	22.2	8.8	27.6	NR	NR
BERYLLIUM	mg/kg	0.278 J	0.0578 UJ	NR	0.0898 J	NR	NR	0.106 U	0.38 UJ	0.0509 U	0.0869 U	0.0205 U	NR	NR
CADMIUM	mg/kg	0.114 J	0.127 R	NR	0.0306 R*	NR	NR	0.0348 U	0.139 UJ	0.0594 U	0.028 U	0.0248 U	NR	NR
CALCIUM	mg/kg	19,600 J	22,100 J	NR	12,800 J	NR	NR	18,400	23,700 J	3,240	16,000	2,790	NR	NR
CHROMIUM, TOTAL	mg/kg	11.5 J	35.8 J	NR	5.32 J	NR	NR	11.9	19.8 J	11	6.78	2.02	NR	NR
COBALT	mg/kg	3.83 J	5.25 J	NR	1.96 J	NR	NR	3.36	2.81 J	2.65	4.71	0.291 J	NR	NR
COPPER	mg/kg	11.6 J	46.9 J	NR	18.2 J	NR	NR	36.2	65.7 J	91.2	2.55	3.79	NR	NR
CYANIDE	mg/kg			NR	0.17 R*	NR	NR	0.191 U	0.179 UJ	0.155 U	0.159 U	0.164 U	NR	NR
IRON	mg/kg	13,900 J	61,500 J	NR	11,400 J	NR	NR	16,100	26,200 J	1,800	6,040	752	NR	NR
LEAD	mg/kg	13.2 J	40.9 J	NR	7.86 J	NR	NR	184	190 J	10.8	5.47	7.05	NR	NR
MAGNESIUM	mg/kg	5,400 J	4,560 J	NR	3,150 J	NR	NR	6120	7,050 J	640	5,680	168	NR	NR
MANGANESE	mg/kg	110 J	808 J	NR	56.4 J	NR	NR	225	152 J	44.3	210	7.21	NR	NR
MERCURY	mg/kg	0.0336 J	0.0826 J	NR	0.751 J	NR	NR	3.11	0.449 J	0.0473 J	0.0223 J	0.178 J	NR	NR
NICKEL	mg/kg	10.6 J	32.7 J	NR	4.79 J	NR	NR	10.3	10.3 J	1.45	6.69	1.04	NR	NR
POTASSIUM	mg/kg	629 J	378 J	NR	450 J	NR	NR	967	552 J	184	228	113	NR	NR
SELENIUM	mg/kg	0.418 J	1.03 UJ	NR	0.248 R*	NR	NR	3.26	2.06 J	0.235 U	0.283 J	0.201 U	NR	NR
SILVER	mg/kg	0.0365 UJ	0.154 UJ	NR	0.0372 R*	NR	NR	0.744 J	0.0339 UJ	0.0353 U	0.034 U	0.0301 U	NR	NR
SODIUM	mg/kg	120 J	879 J	NR	132 J	NR	NR	318	300 J	41.5	123	184	NR	NR
THALLIUM	mg/kg	0.244 UJ	1.03 R	NR	0.248 R*	NR	NR	0.282 U	1.13 UJ	0.235 U	1.13 UJ	0.201 U	NR	NR
VANADIUM	mg/kg	12.7 J	10.6 J	NR	9.16 J	NR	NR	12.6	40 J	3.18	9.76	0.675	NR	NR
ZINC	mg/kg	25.3 J	34.8 J	NR	16.8 J	NR	NR	49.5	58.2 J	85.2	53.4	9.49	NR	NR
Pesticides/PBB/HBB														
HEXABROMOBENZENE	g/kg	780 UJ	790 UJ	NR	15 J	NR	NR	920 U	860 U	250 J	566 U	790 U	780 U	780 U
HEXABROMOBIPHENYL	g/kg	780 UJ	790 UJ	NR	3.7 J	NR	NR	920 U	860 U	18 J	3.2 J	790 U	1.2 J	780 U
O,P'-DDD	g/kg	150 J	2.5 J	NR	180 J	NR	NR	560 U	520 U	23 UJ	11 J	24 U	3.1 J	24 U
O,P'-DDE	g/kg	470 U	24 U	NR	500 U	NR	NR	560 U	520 U	23 UJ	23 U	24 U	1.4 J	1.8 J
O,P'-DDT	g/kg	470 U	24 U	NR	500 UJ	NR	NR	560 U	520 U	23 UJ	7.7 J	24 U	7.2 J	6.4 J
P,P'-DDD	g/kg	490	9.8 J	NR	1,200	NR	NR	560 U	520 U	23 UJ	23 U	24 U	24 U	24 U
P,P'-DDE	g/kg	150 J	3.2 J	NR	200 J	NR	NR	560 U	520 U	17 J	34	24 U	4 J	6.1 J
P,P'-DDT	g/kg	470 U	9 J	NR	81 J	NR	NR	560 U	520 U	23 UJ	23 U	24 U	28	16 J
Semivolatile Organic Compounds														
2,4,5-TRICHLOROPHENOL	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 U	10,900 U	945 U	964 U	997 U	967 U	985 U
2,4,6-TRICHLOROPHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2,4-DICHLOROPHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2,4-DIMETHYLPHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2,4-DINITROPHENOL	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
2,4-DINITROTOLUENE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2,6-DINITROTOLUENE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2-CHLORONAPHTHALENE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	262 J	376 U	383 UJ	396 U	384 U	392 U
2-CHLOROPHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
2-METHYLNAPHTHALENE	g/kg	4,900	396 U	407 U	318 J	NR	NR	14,400 J	8,010 J	376 U	383 UJ	396 U	384 U	392 U
2-METHYLPHENOL (O-CRESOL)	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
2-NITROANILINE	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
2-NITROPHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
3,3'-DICHLOROBENZIDINE	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
3-NITROANILINE	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 U	10,900 U	945 U	964 U	997 U	967 U	985 U
4,6-DINITRO-2-METHYLPHENOL	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
4-BROMOPHENYL PHENYL ETHER	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
4-CHLORO-3-METHYLPHENOL	g/kg	775 U	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
4-CHLOROANILINE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
4-CHLOROPHENYL PHENYL ETHER	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
4-METHYLPHENOL (P-CRESOL)	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	1,200 J	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
4-NITROANILINE	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
4-NITROPHENOL	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
ACENAPHTHENE	g/kg	223 J	396 UJ	407 UJ	820 UJ	NR	NR	30,900 J	7,900 J	376 U	383 UJ	396 U	384 U	392 U
ACENAPHTHYLENE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
ACETOPHENONE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
ANTHRACENE	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	71,000 J	15,600 J	376 U	383 UJ	396 U	384 U	392 U
BENZALDEHYDE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
BENZO(A)ANTHRACENE	g/kg	499 J	396 UJ	407 UJ	784 J	NR	NR	95,300	16,100	376 U	383 U	396 U	384 U	392 U
BENZO(A)PYRENE	g/kg	2,060	396 U	407 U	1,430	NR	NR	79,500	13,000	376 U	160 J	396 U	384 U	392 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 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-01	SBS-02	SBS-02	SBS-03	SBS-03	SBS-03	SBS-04	SBS-04	SBS-05	SBS-06	SBS-07	SBS-08	SBS-08
Field Sample Identification:		05CB03-13	05CB03-14	05CB03-15	05CB03-22	05CB03-21	05CB03-20	05CB03-36	05CB03-37	05CB03-32	05CB03-38	05CB03-33	05CB03-26	05CB03-27
Sample Interval:		8'-12'	13'-14.5'	14.5'-15'	10.5'-13'	11.5'-12'	11'-11.5'	10'-12'	12'-14'	14'-16'	14'-15'	16'-18'	16'-18'	16'-18'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
Sample Collection Date:		2/14/2005	2/14/2005	2/14/2005	2/15/2005	2/15/2005	2/15/2005	2/17/2005	2/17/2005	2/16/2005	2/17/2005	2/16/2005	2/16/2005	2/16/2005
BENZO(B)FLUORANTHENE	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	93,000	12,000	376 U	383 U	396 U	384 U	392 U
BENZO(G,H,I)PERYLENE	g/kg	281 J	396 UJ	407 UJ	258 J	NR	NR	34,300 J	6,930 J	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
BENZO(K)FLUORANTHENE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	55,400	8,150	376 U	383 U	396 U	384 U	392 U
BENZYL BUTYL PHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
BIPHENYL (DIPHENYL)	g/kg	337 J	396 U	407 U	820 U	NR	NR	12,200 J	2,840 J	376 U	383 UJ	396 U	384 U	392 U
BIS(2-CHLOROETHOXY) METHANE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
BIS(2-CHLOROISOPROPYL) ETHER	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	68.4 J	383 U	396 U	384 U	392 U
CAPROLACTAM	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
CARBAZOLE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	17,000 J	2,650 J	376 U	383 UJ	396 U	384 U	392 U
CHRYSENE	g/kg	2,220	396 U	407 U	842	NR	NR	92,500	15,900	376 U	383 U	396 U	384 U	392 U
DIBENZ(A,H)ANTHRACENE	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	13,300	2,580 J	376 UJ	383 U	396 UJ	384 UJ	392 UJ
DIBENZOFURAN	g/kg	694 J	396 U	407 U	820 U	NR	NR	32,200 J	8,000 J	376 U	383 UJ	396 U	384 U	392 U
DIETHYL PHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
DIMETHYL PHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
DI-N-BUTYL PHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 UJ	4,320 UJ	376 U	52.9 J	396 U	384 U	392 U
DI-N-OCTYLPHTHALATE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
FLUORANTHENE	g/kg	658 J	396 UJ	407 UJ	820 U	NR	NR	177,000 J	37,800 J	376 U	383 UJ	50.2 J	384 U	392 U
FLUORENE	g/kg	623 J	396 U	407 U	820 U	NR	NR	35,600 J	8,620 J	376 U	383 UJ	396 U	384 U	392 U
HEXACHLOROBENZENE	g/kg	775 U	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
HEXACHLOROBUTADIENE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
HEXACHLOROCYCLOPENTADIENE	g/kg	775 U	396 U	407 U	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
HEXACHLOROETHANE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
INDENO(1,2,3-C,D)PYRENE	g/kg	775 UJ	396 UJ	407 UJ	820 U	NR	NR	49,200 J	9,560 J	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
ISOPHORONE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 U	4,320 U	376 U	383 U	396 U	384 U	392 U
NAPHTHALENE	g/kg	2,450 J	396 UJ	407 UJ	190 J	NR	NR	52,000 J	17,200 J	376 U	383 UJ	396 U	384 U	392 U
NITROBENZENE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 U	383 UJ	396 U	384 U	392 U
N-NITROSODI-N-PROPYLAMINE	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
N-NITROSODIPHENYLAMINE	g/kg	775 U	396 U	407 U	820 U	NR	NR	4,620 UJ	4,320 U	376 U	383 UJ	396 U	384 U	392 U
PENTACHLOROPHENOL	g/kg	1,950 UJ	995 UJ	1,020 UJ	2,060 UJ	NR	NR	11,600 UJ	10,900 UJ	945 UJ	964 UJ	997 UJ	967 UJ	985 UJ
PHENANTHRENE	g/kg	3,340 J	396 UJ	407 UJ	182 J	NR	NR	180,000 J	43,000 J	376 U	383 UJ	58.8 J	384 U	392 U
PHENOL	g/kg	775 UJ	396 UJ	407 UJ	820 UJ	NR	NR	4,620 UJ	4,320 UJ	376 UJ	383 UJ	396 UJ	384 UJ	392 UJ
PYRENE	g/kg	3,070	396 U	407 U	1,160	NR	NR	200,000	37,000	376 U	383 U	396 U	384 U	392 U
Volatile Organic Compounds														
1,1,1-TRICHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,1,2,2-TETRACHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,1,2-TRICHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 UJ	10.8 U	13.4 U
1,1-DICHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	1.6 J	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,1-DICHLOROETHENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 UJ	28.8 UJ	27.7 U	18.2 UJ	13.6 U	10.8 U	13.4 U
1,2,4-TRICHLOROBENZENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,2-DIBROMO-3-CHLOROPROPANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	38,800	18.2 U	8.5 J	10.8 U	13.4 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,2-DICHLOROBENZENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	20.9 J	18.2 U	13.6 U	0.45 J	0.83 J
1,2-DICHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,2-DICHLOROETHYLENES	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,2-DICHLOROPROPANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	2.7 J	18.2 U	13.6 U	10.8 U	13.4 U
1,3-DICHLOROBENZENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
1,4-DICHLOROBENZENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	38.9	18.2 U	13.6 U	1.1 J	1.9 J
2-HEXANONE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
ACETONE	g/kg	38.8 J	21.5 U	27.1 U	NR	34	25.7 J	35.7 U	69.3 U	1,220	97.1 J	34.9 U	8.4 J	56
BENZENE	g/kg	3.4 J	0.67 J	0.66 J	NR	19.2 U	38.4 U	8.2 J	43	184	18.2 U	28	44.1	38.5
BROMOCHLOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
BROMODICHLOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
BROMOFORM	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
BROMOMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
CARBON DISULFIDE	g/kg	4.3 J	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 UJ	10.8 J	27.7 U	18.2 UJ	2.6 J	10.8 U	5.7 J
CARBON TETRACHLORIDE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
CHLOROBENZENE	g/kg	17.7 U	0.53 J	4.8 J	NR	19.2 U	38.4 U	18.2 U	28.8 U	99.2	0.82 J	13.6 U	2.9 J	9.2 J
CHLOROETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 UJ	28.8 UJ	27.7 U	18.2 UJ	13.6 U	10.8 U	13.4 U
CHLOROFORM	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	1.6 J	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
CHLOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
CIS-1,3-DICHLOROPROPENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
CYCLOHEXANE	g/kg	17.7 U	11.3 U	0.54 J	NR	19.2 U	19 J	6.8 J	14.1 J	27.7 U	18.2 U	13.6 U	0.91 J	13.4 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 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-01	SBS-02	SBS-02	SBS-03	SBS-03	SBS-03	SBS-04	SBS-04	SBS-05	SBS-06	SBS-07	SBS-08	SBS-08
Field Sample Identification:		05CB03-13	05CB03-14	05CB03-15	05CB03-22	05CB03-21	05CB03-20	05CB03-36	05CB03-37	05CB03-32	05CB03-38	05CB03-33	05CB03-26	05CB03-27
Sample Interval:		8'-12'	13'-14.5'	14.5'-15'	10.5'-13'	11.5'-12'	11'-11.5'	10'-12'	12'-14'	14'-16'	14'-15'	16'-18'	16'-18'	16'-18'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
Sample Collection Date:		2/14/2005	2/14/2005	2/14/2005	2/15/2005	2/15/2005	2/15/2005	2/17/2005	2/17/2005	2/16/2005	2/17/2005	2/16/2005	2/16/2005	2/16/2005
DIBROMOCHLOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
DICHLORODIFLUOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 UJ	28.8 UJ	27.7 U	18.2 UJ	13.6 U	10.8 U	13.4 U
DIMETHYL BENZENE	g/kg	4.8 J	11.3 U	13.3 U	NR	19.2 U	38.4 U	20.4	42.8	17.6 J	18.2 U	13.6 U	10.8 U	13.4 U
ETHYLBENZENE	g/kg	1.5 J	11.3 U	13.3 U	NR	19.2 U	38.4 U	8.6 J	19.9 J	7.5 J	18.2 U	13.6 U	10.8 U	13.4 U
ISOPROPYLBENZENE (CUMENE)	g/kg	1.1 J	11.3 U	13.3 U	NR	19.2 U	18.7 J	3.9 J	6.5 J	1.8 J	18.2 U	13.6 U	10.8 U	13.4 U
METHYL ACETATE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
METHYL ETHYL KETONE (2-BUTANONE)	g/kg	6.7 J	4.5 J	4.8 J	NR	8.2 J	38.4 U	5.9 J	15.5 J	5.7 J	20.5	4.1 J	10.8 U	6.7 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
METHYLCYCLOHEXANE	g/kg	2.5 J	11.3 U	0.66 J	NR	2.4 J	71.4	40.6 UJ	86 J	26.3 J	18.2 UJ	1.3 J	0.63 J	0.65 J
METHYLENE CHLORIDE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
STYRENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
TETRACHLOROETHYLENE(PCE)	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	10.8 J	18.2 U	13.6 U	10.8 U	13.4 U
TOLUENE	g/kg	4.9 J	11.3 U	13.3 U	NR	19.2 U	38.4 U	5.9 J	6 J	34.6	18.2 U	1.1 J	1.8 J	2.6 J
TRANS-1,3-DICHLOROPROPENE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 U
TRICHLOROETHYLENE (TCE)	g/kg	17.7 U	11.3 U	4 J	NR	19.2 U	38.4 U	2.2 J	9 J	2.8 J	18.2 U	13.6 U	10.8 U	13.4 U
TRICHLOROFLUOROMETHANE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 UJ	28.8 UJ	27.7 U	18.2 UJ	13.6 U	10.8 U	13.4 U
VINYL CHLORIDE	g/kg	17.7 U	11.3 U	13.3 U	NR	19.2 U	38.4 U	18.2 U	28.8 U	27.7 U	18.2 U	13.6 U	10.8 U	13.4 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 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

	Field Sample Location:	SBS-09	SBS-10	SBS-11	SBS-12	SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-20	SBS-21	SBS-21
	Field Sample Identification:	05CB03-95	05CB03-40	05CB03-90	05CB03-48	05CB03-61	05CB03-57	05CB03-51	05CB03-63	05CB03-54	05CB03-66	05CB03-68	05CB03-81	05CB03-82	05CB03-83
	Sample Interval:	12'-14'	8'-10'	10'-12'	12'-14'	12'-14'	9'-10'	18'-20'	4'-6'	13'-15'	8'-10'	16'-18'	4'-6'	4'-10'	4'-10'
	Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
	Sample Collection Date:	2/23/2005	2/17/2005	2/22/2005	2/18/2005	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	2/21/2005
Metals	**Units**														
ALUMINUM	mg/kg	5,800	3,770	1,610	2,140	5,010	3,580	1,430	3,620	1,010	2,900	NR	5,900	3,110	3,710
ANTIMONY	mg/kg	10	0.512 U	1.16 J	0.319 U	0.45 U	0.678 U	0.227 U	1.21 J	0.267 U	0.904 J	NR	0.509 U	0.254 U	0.431 U
ARSENIC	mg/kg	0.391 U	3.67	11.6	3.01 UJ	3.98 J	2.84	1.17 UJ	4.04 J	2.43 UJ	3.78 UJ	NR	4.21 J	1.3 UJ	3.9 J
BARIUM	mg/kg	5.58	15.1	19.8	16	22.4	16.3	9.45	60.9	3.96	64.1	NR	47.2	17	21.7
BERYLLIUM	mg/kg	0.171 J	0.2 J	0.102 U	0.0887 U	0.167 U	0.0873 U	0.0402 U	0.0709 U	0.0446 U	0.0467 U	NR	0.135 U	0.0921 U	0.107 U
CADMIUM	mg/kg	0.123	0.0248 U	0.029 U	0.149 UJ	0.271 UJ	0.0212 U	0.512 J	0.116 UJ	0.133 UJ	0.0251 U	NR	0.142 UJ	0.284 UJ	0.124 UJ
CALCIUM	mg/kg	4,150	11,900	1,400	50,000 J	80,000 J	9,160	133,000 J	45,900 J	33,200 J	13,700	NR	52,900 J	110,000 J	29,800 J
CHROMIUM, TOTAL	mg/kg	477 J	9.16	3.55	4.99	9.65	11	3.42	10.8	2.54	14	NR	14.8	6.28	9.18
COBALT	mg/kg	2.2	2.67	2.05	1.68	2.88	1.57	1.66	4.03	2.33	2.2	NR	4.48	2.09	2.61
COPPER	mg/kg	14.8	14.4	8.9	7.36	9.3	92.2	6.85	66.6	7.32	25.5	NR	31.4	7.19 J	20.2
CYANIDE	mg/kg	0.159 U	0.157 U	0.169 U	0.158 U	0.17 U	0.161 U	0.156 U	0.151 U	0.164 U	0.153 U	NR	0.76	0.581	0.195 J
IRON	mg/kg	6,590	7,760	4,170	6,040	8,200	8,140	8,040	10,400	2,730	13,100	NR	15,000	5,290	6,820
LEAD	mg/kg	79.6	14.2	136	19.5 J	25.3 J	51.5	9.42 J	235 J	3.44 J	172	NR	39 J	14.6 J	39.7 J
MAGNESIUM	mg/kg	2,140	4,050	662	3,910	29,000 J	2,800	13,900	17,700 J	5,220	4,120	NR	18,600	7,770	9,900
MANGANESE	mg/kg	51.2	74.8	46.3	122	160 J	54.3	193	231 J	102	187	NR	257	122	146
MERCURY	mg/kg	0.17 J	0.0477 J	0.182 J	0.0117 J	0.0313 J	0.023 J	0.0154 J	0.765	0.00581 J	0.186	NR	0.0853 J	0.0241 J	0.0244 J
NICKEL	mg/kg	9.03	7.83	3.1	5.03 J	10.6 J	7.77	6.17 J	18.8 J	5.3 J	9.8	NR	15.2 J	6.34 J	8.21 J
POTASSIUM	mg/kg	505	383	202	252	932	272	404	533	218	347	NR	968	519	551
SELENIUM	mg/kg	0.214 U	0.201 U	0.266 U	1.21 UJ	2.2 UJ	0.172 U	2.07 UJ	0.945 UJ	1.08 UJ	0.223 J	NR	1.15 UJ	2.3 UJ	1 UJ
SILVER	mg/kg	0.0322 U	0.0301 U	0.0352 U	0.0362 U	0.0597 U	0.0258 U	0.128 U	0.12 U	0.0324 U	0.0306 U	NR	0.0346 U	0.0616 U	0.0301 U
SODIUM	mg/kg	56.6	106	37.8 J	72.5	200	48.9	192	302	108	95	NR	219	162	156
THALLIUM	mg/kg	0.214 U	0.201 U	0.235 U	1.21 UJ	2.2 UJ	0.172 U	2.07 UJ	0.945 UJ	1.08 UJ	0.204 U	NR	1.15 UJ	2.3 UJ	1 UJ
VANADIUM	mg/kg	11.2	10.2	5.71	7.5	13.2	8.66	5.2	22.8	3.65	10.1	NR	17.8	8.35	10.2
ZINC	mg/kg	29.4	32.8	85	30.2 J	22.5 J	63.6	21 J	122 J	47.5 J	246	NR	69.4 J	16.9 J	23.8 J
Pesticides/PBB/HBB															
HEXABROMOBENZENE	g/kg	150 J	573 U	820 U	760 U	250 J	78,000 U	66 J	730,000 U	800 U	740 U	NR	21,000 J	3,200 J	2,200 J
HEXABROMOBIPHENYL	g/kg	9.2 J	17 J	4.1 J	760 U	540 J	78,000 U	14 J	90,000 J	820 J	58 J	NR	2,200 J	14,700 U	270 J
O,P'-DDD	g/kg	2.1 J	25 J	25 U	100 J	940 J	380,000 J	100 J	40,000 U	110 J	2,500 J	NR	1,000 J	280 J	220 J
O,P'-DDE	g/kg	24 U	92 U	25 U	230 U	500 J	470,000 U	49 J	3,300 J	52 J	11,000 UJ	NR	23 UJ	44 J	30 J
O,P'-DDT	g/kg	24 U	31 J	2.1 J	10 J	1,400 J	94,000 J	180 J	12,000 J	230 J	610 J	NR	750 J	9.5 J	22 U
P,P'-DDD	g/kg	8.5 J	92 U	25 UJ	230 U	11,000 U	470,000 U	460 U	4,400 J	480 U	4,000 J	NR	2,800	850 J	650 J
P,P'-DDE	g/kg	5.4 J	35 J	23 J	120 J	2,200 J	140,000 J	220 J	15,000 J	110 J	11,000 U	NR	1,300 J	300 J	250 J
P,P'-DDT	g/kg	24 U	89 J	25 U	62 J	8,300 J	310,000 J	460	42,000 J	1,000	9,900 J	NR	4,500	420 J	1,100 U
Semivolatile Organic Compounds															
2,4,5-TRICHLOROPHENOL	g/kg	965 UJ	952 U	1,030 UJ	918 U	1,030 UJ	9,270 U	942 U	912 UJ	998 U	931 UJ	NR	944 UJ	919 UJ	907 UJ
2,4,6-TRICHLOROPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 U	365 U	361 U
2,4-DICHLOROPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
2,4-DIMETHYLPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
2,4-DINITROPHENOL	g/kg	965 UJ	952 UJ	1,030 UJ	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 UJ	919 UJ	907 UJ
2,4-DINITROTOLUENE	g/kg	384 U	379 U	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
2,6-DINITROTOLUENE	g/kg	384 U	379 U	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
2-CHLORONAPHTHALENE	g/kg	384 UJ	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 U	365 U	361 U
2-CHLOROPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
2-METHYLNAPHTHALENE	g/kg	709 J	379 UJ	409 UJ	365 U	408 U	13,600	374 U	474	397 U	370 U	NR	376 U	1,820	2,750
2-METHYLPHENOL (O-CRESOL)	g/kg	384 U	379 UJ	409 U	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
2-NITROANILINE	g/kg	965 U	952 UJ	1,030 U	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 U	919 U	907 U
2-NITROPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
3,3'-DICHLOROBENZIDINE	g/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
3-NITROANILINE	g/kg	965 UJ	952 U	1,030 UJ	918 U	1,030 UJ	9,270 U	942 U	912 UJ	998 U	931 UJ	NR	944 UJ	919 UJ	907 UJ
4,6-DINITRO-2-METHYLPHENOL	g/kg	965 UJ	952 UJ	1,030 UJ	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 UJ	919 UJ	907 UJ
4-BROMOPHENYL PHENYL ETHER	g/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
4-CHLORO-3-METHYLPHENOL	g/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
4-CHLOROANILINE	g/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
4-CHLOROPHENYL PHENYL ETHER	g/kg	384 UJ	379 UJ	409 UJ	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
4-METHYLPHENOL (P-CRESOL)	g/kg	384 UJ	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	50.4 J	365 UJ	361 UJ
4-NITROANILINE	g/kg	965 UJ	952 UJ	1,030 UJ	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 UJ	919 UJ	907 UJ
4-NITROPHENOL	g/kg	965 UJ	952 UJ	1,030 UJ	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 UJ	919 UJ	907 UJ
ACENAPHTHENE	g/kg	426 J	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 U	147 J	361 U
ACENAPHTHYLENE	g/kg	384 UJ	379 UJ	409 UJ	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
ACETOPHENONE	g/kg	384 U	379 UJ	409 U	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 U	365 U	361 U
ANTHRACENE	g/kg	817 J	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	75.6 J	397 U	370 UJ	NR	52.6 J	365 UJ	361 UJ
BENZALDEHYDE	g/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
BENZO(A)ANTHRACENE	g/kg	1,030 J	379 U	131 J	365 U	408 UJ	3,690 U	374 U	180 J	397 U	370 UJ	NR	71 J	365 UJ	361 UJ
BENZO(A)PYRENE	g/kg	948 J	36.7 J	112 J	365 U	408 U	3,690 U	374 U	403	397 U	180 J	NR	56.2 J	365 U	361 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 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-09	SBS-10	SBS-11	SBS-12	SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-20	SBS-21	SBS-21
Field Sample Identification:		05CB03-95	05CB03-40	05CB03-90	05CB03-48	05CB03-61	05CB03-57	05CB03-51	05CB03-63	05CB03-54	05CB03-66	05CB03-68	05CB03-81	05CB03-82	05CB03-83
Sample Interval:		12'-14'	8'-10'	10'-12'	12'-14'	12'-14'	9'-10'	18'-20'	4'-6'	13'-15'	8'-10'	16'-18'	4'-6'	4'-10'	4'-10'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
Sample Collection Date:		2/23/2005	2/17/2005	2/22/2005	2/18/2005	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	2/21/2005
BENZO(B)FLUORANTHENE	µg/kg	784 J	379 U	114 J	365 U	408 UJ	3,690 U	374 U	247 J	397 U	370 UJ	NR	53.8 J	365 UJ	361 UJ
BENZO(G,H,I)PERYLENE	µg/kg	702 J	37.6 J	79.1 J	365 UJ	408 UJ	3,690 UJ	374 UJ	69.5 J	397 UJ	370 UJ	NR	44.1 J	365 U	361 U
BENZO(K)FLUORANTHENE	µg/kg	616 J	379 U	110 J	365 U	408 UJ	3,690 U	374 U	160 J	397 U	370 UJ	NR	48 J	365 UJ	361 UJ
BENZYL BUTYL PHTHALATE	µg/kg	384 U	379 U	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
BIPHENYL (DIPHENYL)	µg/kg	384 UJ	379 UJ	409 UJ	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	174 J	180 J	299 J
BIS(2-CHLOROETHOXY) METHANE	µg/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	µg/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	384 U	379 UJ	409 U	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	384 U	52.4 J	409 U	50.5 J	408 U	3,690 U	374 U	1,510	57 J	370 U	NR	376 U	365 U	361 U
CAPROLACTAM	µg/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
CARBAZOLE	µg/kg	364 J	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
CHRYSENE	µg/kg	1,090 J	55.3 J	137 J	365 U	94.5 J	413 J	374 U	326 J	397 U	370 U	NR	64.9 J	53.8 J	43.4 J
DIBENZ(A,H)ANTHRACENE	µg/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 U	365 U	361 U
DIBENZOFURAN	µg/kg	500	379 UJ	409 U	365 U	408 U	576 J	374 U	362 U	397 U	370 U	NR	376 U	82.2 J	361 U
DIETHYL PHTHALATE	µg/kg	384 U	379 U	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
DIMETHYL PHTHALATE	µg/kg	384 U	379 U	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
DI-N-BUTYL PHTHALATE	µg/kg	384 U	379 UJ	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
DI-N-OCTYLPHTHALATE	µg/kg	384 U	59.2 J	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
FLUORANTHENE	µg/kg	2,650 J	37.1 J	271 J	365 U	408 UJ	408 J	374 U	378 J	397 U	370 UJ	NR	193 J	42.7 J	39.6 J
FLUORENE	µg/kg	474 J	379 UJ	409 UJ	365 U	408 U	3,690 U	374 U	141 J	397 U	370 U	NR	376 U	222 J	435
HEXACHLOROBENZENE	µg/kg	384 UJ	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 U	365 U	361 U
HEXACHLOROBUTADIENE	µg/kg	384 U	379 UJ	409 U	365 U	408 U	3,690 U	374 U	2,420	397 U	370 U	NR	376 U	365 U	361 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 U	3,690 UJ	374 UJ	362 U	397 UJ	370 U	NR	376 UJ	365 UJ	361 UJ
HEXACHLOROETHANE	µg/kg	384 U	379 UJ	409 U	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
INDENO(1,2,3-C,D)PYRENE	µg/kg	924 J	379 UJ	81.7 J	365 UJ	408 UJ	3,690 UJ	374 UJ	39 J	397 UJ	370 UJ	NR	57.9 J	365 U	361 U
ISOPHORONE	µg/kg	384 UJ	379 U	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
NAPHTHALENE	µg/kg	788	379 UJ	409 UJ	365 U	408 UJ	1,590 J	374 U	165 J	397 U	370 UJ	NR	160 J	344 J	412 J
NITROBENZENE	µg/kg	384 UJ	379 UJ	409 UJ	365 U	408 UJ	3,690 U	374 U	362 UJ	397 U	370 UJ	NR	376 UJ	365 UJ	361 UJ
N-NITROSODI-N-PROPYLAMINE	µg/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
N-NITROSODIPHENYLAMINE	µg/kg	384 U	379 UJ	409 U	365 U	408 U	3,690 U	374 U	362 U	397 U	370 U	NR	376 U	365 U	361 U
PENTACHLOROPHENOL	µg/kg	965 UJ	952 UJ	1,030 UJ	918 UJ	1,030 UJ	9,270 UJ	942 UJ	912 UJ	998 UJ	931 UJ	NR	944 UJ	919 UJ	907 UJ
PHENANTHRENE	µg/kg	3,530 J	379 UJ	214 J	365 U	60.9 J	1,160 J	374 U	610 J	397 U	370 UJ	NR	228 J	386	699
PHENOL	µg/kg	384 UJ	379 UJ	409 UJ	365 UJ	408 UJ	3,690 UJ	374 UJ	362 UJ	397 UJ	370 UJ	NR	376 UJ	365 UJ	361 UJ
PYRENE	µg/kg	2,350	74.1 J	238 J	365 U	53.8 J	574 J	374 U	606	397 U	370 U	NR	170 J	63.4 J	54.9 J
Volatile Organic Compounds															
1,1,1-TRICHLOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,1,2-TRICHLOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,1-DICHLOROETHANE	µg/kg	8.4 U	13.6 U	2.6 J	13.9 U	11 U	1.3 J	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,1-DICHLOROETHENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 UJ	11 UJ	14.9 UJ	14.1 UJ	20.8 U	12.4 UJ	11.5 UJ	12.1 UJ	7.6 U	44.1 U	7.7 U
1,2,4-TRICHLOROBENZENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	17.2	14.1 U	2.1 J	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,2-DICHLOROBENZENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	9.4 J	1.4 J	20.8 U	12.4 U	11.5 U	12.1 U	0.42 J	44.1 U	7.7 U
1,2-DICHLOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	551 J	12.4 U	11.5 U	12.1 U	13	44.1 U	7.7 U
1,2-DICHLOROETHYLENES	µg/kg	8.4 U	2.5 J	1.4 J	13.9 U	11 U	156	5.3 J	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,2-DICHLOROPROPANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	4.1 J	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,3-DICHLOROBENZENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	1.6 J	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
1,4-DICHLOROBENZENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	20.7	3.2 J	20.8 U	12.4 U	11.5 U	12.1 U	0.81 J	44.1 U	0.46 J
2-HEXANONE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
ACETONE	µg/kg	46.5	9 J	57	24.8	97	91.8	18.1	35.2	16.6	1,390	20.2	40.8	36.6 J	54.7
BENZENE	µg/kg	670 J	7.2 J	46.5	3.9 J	8.2 J	9,840	48.8	20.8 U	3.8 J	0.42 J	12.1 U	6.5 J	28.4 J	18.1
BROMOCHLOROMETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
BROMODICHLOROMETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
BROMOFORM	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
BROMOMETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 UJ	7.7 U
CARBON DISULFIDE	µg/kg	3.4 J	13.6 U	10.5	13.9 U	11 U	34.3	14.1 U	20.8 U	4.1 J	11.5 U	12.1 U	3.2 J	44.1 U	2.4 J
CARBON TETRACHLORIDE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
CHLOROBENZENE	µg/kg	8.4 U	2.3 J	2.3 J	13.9 U	33.2	900 J	7.2 J	2.2 J	75.1	1.7 J	12.1 U	17.6	44.1 U	7.7 U
CHLOROETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 UJ	11 UJ	14.9 UJ	14.1 UJ	20.8 U	12.4 UJ	11.5 UJ	12.1 UJ	7.6 U	44.1 U	7.7 U
CHLOROFORM	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	1.5 J	14.1 U	1.8 J	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
CHLOROMETHANE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
CIS-1,3-DICHLOROPROPENE	µg/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
CYCLOHEXANE	µg/kg	9.6	13.6 U	10.1	13.9 U	1.9 J	49.2	14.1 U	3.7 J	12.4 U	11.5 U	12.1 U	2.1 J	219	453 J

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 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

	Field Sample Location:	SBS-09	SBS-10	SBS-11	SBS-12	SBS-13	SBS-14	SBS-15	SBS-16	SBS-17	SBS-18	SBS-19	SBS-20	SBS-21	SBS-21
	Field Sample Identification:	05CB03-95	05CB03-40	05CB03-90	05CB03-48	05CB03-61	05CB03-57	05CB03-51	05CB03-63	05CB03-54	05CB03-66	05CB03-68	05CB03-81	05CB03-82	05CB03-83
	Sample Interval:	12'-14'	8'-10'	10'-12'	12'-14'	12'-14'	9'-10'	18'-20'	4'-6'	13'-15'	8'-10'	16'-18'	4'-6'	4'-10'	4'-10'
	Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup
	Sample Collection Date:	2/23/2005	2/17/2005	2/22/2005	2/18/2005	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	2/21/2005
DIBROMOCHLOROMETHANE	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
DICHLORODIFLUOROMETHANE	g/kg	8.4 UJ	13.6 U	7.9 UJ	13.9 UJ	11 UJ	14.9 UJ	14.1 UJ	20.8 U	12.4 UJ	11.5 UJ	12.1 UJ	7.6 U	44.1 U	7.7 U
DIMETHYL BENZENE	g/kg	2 J	13.6 U	7.9 U	13.9 U	11 U	2,240	14.1 U	23.7	12.4 U	11.5 U	12.1 U	2.8 J	189	119
ETHYLBENZENE	g/kg	3.9 J	13.6 U	0.53 J	13.9 U	0.49 J	88	2.5 J	7.6 J	12.4 U	11.5 U	12.1 U	0.69 J	209	532 J
ISOPROPYLBENZENE (CUMENE)	g/kg	5.1 J	13.6 U	7.9 U	13.9 U	11 U	40.9	14.1 U	3.7 J	12.4 U	11.5 U	12.1 U	7.6 U	51	41.6
METHYL ACETATE	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
METHYL ETHYL KETONE (2-BUTANONE)	g/kg	7.5 J	13.6 U	12.4	2.4 J	9.7 J	14.8 J	14.1 U	4.6 J	12.4 U	72.9	2.6 J	6.4 J	44.1 U	7.7 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
METHYLCYCLOHEXANE	g/kg	310 J	13.6 U	9.7	13.9 U	5.8 J	7,320	14.1 UJ	31.6 J	12.4 UJ	11.5 UJ	12.1 UJ	2.2 J	3,910	1,980
METHYLENE CHLORIDE	g/kg	8.4 U	1.5 J	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
STYRENE	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
TETRACHLOROETHYLENE(PCE)	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	8.1 J	14.1 U	8.3 J	12.4 U	11.5 U	12.1 U	2.4 J	44.1 U	7.7 U
TOLUENE	g/kg	3.6 J	13.6 U	1.3 J	13.9 U	1.6 J	1,270	14.1 U	12.5 J	12.4 U	11.5 U	12.1 U	2.2 J	5.1 J	2.8 J
TRANS-1,3-DICHLOROPROPENE	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	14.9 U	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U
TRICHLOROETHYLENE (TCE)	g/kg	8.4 U	18.5	27.7	13.9 U	1.5 J	44.9	3.2 J	27	12.4 U	11.5 U	12.1 U	0.47 J	44.1 U	7.7 U
TRICHLOROFLUOROMETHANE	g/kg	8.4 UJ	13.6 U	7.9 UJ	13.9 UJ	11 UJ	14.9 UJ	14.1 UJ	20.8 U	12.4 UJ	11.5 UJ	12.1 UJ	7.6 U	44.1 U	7.7 U
VINYL CHLORIDE	g/kg	8.4 U	13.6 U	7.9 U	13.9 U	11 U	12 J	14.1 U	20.8 U	12.4 U	11.5 U	12.1 U	7.6 U	44.1 U	7.7 U

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TABLE 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

	Field Sample Location:	SBS-22	SBS-23	SBS-24	SBS-25	SBS-26	SBS-27	SBS-28	SBS-28	SBS-29
	Field Sample Identification:	05CB03-84	05CB03-94	05CB03-91	05CB25-22	05CB25-23	05CB25-26	05CB25-33	05CB25-34	05CB25-36
	Sample Interval:	10'-12'	16'-18'	10'-13'	12'-14'	12'-14'	4'-6'	12'-16'	12'-16'	15'-17'
	Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup	Soil
	Sample Collection Date:	2/21/2005	2/22/2005	2/22/2005	3/18/2005	3/18/2005	3/23/2005	4/6/2005	4/6/2005	4/7/2005
Metals	**Units**									
ALUMINUM	mg/kg	2,430	1,530	1,420	3,730	1,150	4,910	978	1,410	1,160
ANTIMONY	mg/kg	0.229 U	0.285 U	0.247 U	1.17 U	4.67 J	0.352 UJ	0.673 J	0.406 J	0.213 U
ARSENIC	mg/kg	2.18 J	0.895 UJ	2.11 UJ	11.3 J	27.8	4.71	12.9 UJ	9.96 UJ	4.71 J
BARIUM	mg/kg	7	6.31	3.44	157	85.9	26	3.07	4.98	4.93
BERYLLIUM	mg/kg	0.0838 U	0.0511 U	0.0563 U	0.289 U	0.386 U	0.223 J	0.084 U	0.106 U	0.0835 U
CADMIUM	mg/kg	0.128 UJ	0.129 UJ	0.277 UJ	0.995 U	0.416 U	0.0264 U	0.0281 U	0.0275 U	0.0239 U
CALCIUM	mg/kg	42,000 J	55,700 J	81,900 J	44,000 J	50,900	13,200	29,900 J	21,500 J	34300 J
CHROMIUM, TOTAL	mg/kg	5.37	5	5.04	11.2	16.2	8.87	2.57	3.62	4.4
COBALT	mg/kg	1.84	1.42	1.09	5.22	2.19 J	3.97	1.07	1.42	0.99
COPPER	mg/kg	5.36	5.09	11.2	116	158	9.94	27.2	40	34.3
CYANIDE	mg/kg	0.522 J	0.15 U	0.158 U	0.142 U	0.212 U	0.21 J	0.254 J	0.232 J	0.862
IRON	mg/kg	4,920	4,540	3,570	13,500	22,300	10,400	3,820	5,560	3,210
LEAD	mg/kg	3.04 J	2.31 J	2.75 J	210	196	10.7	14.6	19.4	0.084 U
MAGNESIUM	mg/kg	10,900	8,140	5,600 J	13,300	177,000	4,820	7,410	5,350	3,840
MANGANESE	mg/kg	91.3	137	67.4	192	252	619 J	111 U	92.8 U	64.7
MERCURY	mg/kg	0.00673 J	0.015 J	0.0151 J	0.528	0.165 J	0.0129 J	0.456	0.405	0.00577 J
NICKEL	mg/kg	5.59 J	4.73 J	4.25 J	15.5 J	44.4	9.04	6 UJ	2.94 UJ	3.63 J
POTASSIUM	mg/kg	566	271	214	556	351 J	733	164 J	206 J	179
SELENIUM	mg/kg	1.04 UJ	1.04 UJ	2.25 UJ	1.14 UJ	3.38 U	0.298 U	22.8 UJ	11.2 UJ	1.43 J
SILVER	mg/kg	0.0312 U	0.0597 U	0.0672 U	0.193 U	1.37 J	0.0322 U	0.0342 U	0.0335 U	0.0291 U
SODIUM	mg/kg	85.4	90.7	112	159	2640	107	110	86.8	82.8
THALLIUM	mg/kg	1.04 UJ	1.04 UJ	2.25 UJ	1.14 UJ	3.38 U	1.07 UJ	22.8 UJ	11.2 UJ	0.969 UJ
VANADIUM	mg/kg	8.16	7.36	6.68	11	4.08 J	14.6	4.14	6.13	4.9
ZINC	mg/kg	13.4 J	10.5 UJ	6.94 J	175	81.1	33.3	19,600 J	16,600 J	13.6
Pesticides/PBB/HBB										
HEXABROMOBENZENE	□g/kg	22 J	15 J	13 J	8,400 J	67,000 J	72,000 U	7,900 UJ	7,600 UJ	1.3 J
HEXABROMOBIPHENYL	□g/kg	3.6 J	42 J	94 J	11,000 J	490 J	72,000 U	26 J	33 J	770 U
O,P'-DDD	□g/kg	1.8 J	15 J	13 J	220,000 U	32 U	11,000 U	2,400 U	2,300 U	23 U
O,P'-DDE	□g/kg	22 UJ	22 U	23 U	220,000 U	32 U	11,000 U	2,400 U	2,300 U	23 U
O,P'-DDT	□g/kg	22 U	12 J	9.1 J	170,000 J	6.2 J	410 J	900 J	1,000 J	23 U
P,P'-DDD	□g/kg	22 UJ	22 UJ	44 J	110,000 J	2.4 UJ	11,000 U	2,400 U	2,300 U	2.1 J
P,P'-DDE	□g/kg	22 U	72	24 J	23,000 J	32 UJ	460 J	2,400 U	2,300 U	1.8 J
P,P'-DDT	□g/kg	7.1 J	74	32 J	3,000,000 J	130 UJ	11,000 UJ	940 J	1,200 J	2.3 J
Semivolatile Organic Compounds										
2,4,5-TRICHLOROPHENOL	□g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 U	988 UJ	923 UJ	952 UJ
2,4,6-TRICHLOROPHENOL	□g/kg	372 U	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
2,4-DICHLOROPHENOL	□g/kg	372 UJ	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
2,4-DIMETHYLPHENOL	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
2,4-DINITROPHENOL	□g/kg	936 UJ	907 UJ	952 R	907 UJ	26,100 UJ	899 UJ	988 UJ	923 UJ	952 UJ
2,4-DINITROTOLUENE	□g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
2,6-DINITROTOLUENE	□g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
2-CHLORONAPHTHALENE	□g/kg	372 U	361 UJ	379 U	361 UJ	10,400 U	357 U	393 UJ	367 UJ	379 UJ
2-CHLOROPHENOL	□g/kg	372 UJ	361 UJ	379 UJ	218 J	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
2-METHYLNAPHTHALENE	□g/kg	372 U	361 UJ	379 UJ	137 J	18,200	357 U	393 UJ	367 UJ	379 UJ
2-METHYLPHENOL (O-CRESOL)	□g/kg	372 UJ	361 U	379 U	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
2-NITROANILINE	□g/kg	936 U	907 U	952 U	907 UJ	26,100 UJ	899 U	988 UJ	923 UJ	952 UJ
2-NITROPHENOL	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
3,3'-DICHLOROBENZIDINE	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
3-NITROANILINE	□g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 UJ	988 UJ	923 UJ	952 UJ
4,6-DINITRO-2-METHYLPHENOL	□g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 UJ	988 UJ	923 UJ	952 UJ
4-BROMOPHENYL PHENYL ETHER	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
4-CHLORO-3-METHYLPHENOL	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
4-CHLOROANILINE	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
4-CHLOROPHENYL PHENYL ETHER	□g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
4-METHYLPHENOL (P-CRESOL)	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
4-NITROANILINE	□g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 UJ	988 UJ	923 UJ	952 UJ
4-NITROPHENOL	□g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 U	988 UJ	923 UJ	952 UJ
ACENAPHTHENE	□g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
ACENAPHTHYLENE	□g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
ACETOPHENONE	□g/kg	372 U	361 U	379 U	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
ANTHRACENE	□g/kg	372 UJ	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
BENZALDEHYDE	□g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
BENZO(A)ANTHRACENE	□g/kg	372 UJ	39.2 J	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
BENZO(A)PYRENE	□g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ

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TABLE 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-22	SBS-23	SBS-24	SBS-25	SBS-26	SBS-27	SBS-28	SBS-28	SBS-29
Field Sample Identification:		05CB03-84	05CB03-94	05CB03-91	05CB25-22	05CB25-23	05CB25-26	05CB25-33	05CB25-34	05CB25-36
Sample Interval:		10'-12'	16'-18'	10'-13'	12'-14'	12'-14'	4'-6'	12'-16'	12'-16'	15'-17'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup	Soil
Sample Collection Date:		2/21/2005	2/22/2005	2/22/2005	3/18/2005	3/18/2005	3/23/2005	4/6/2005	4/6/2005	4/7/2005
BENZO(B)FLUORANTHENE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
BENZO(G,H,I)PERYLENE	g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
BENZO(K)FLUORANTHENE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
BENZYL BUTYL PHTHALATE	g/kg	372 U	361 U	379 U	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
BIPHENYL (DIPHENYL)	g/kg	372 U	361 UJ	379 UJ	245 J	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
BIS(2-CHLOROETHOXY) METHANE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
BIS(2-CHLOROISOPROPYL) ETHER	g/kg	372 UJ	361 U	379 U	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	g/kg	372 U	361 U	379 U	361 UJ	10,400 UJ	49.3 J	393 UJ	98.4 J	379 UJ
CAPROLACTAM	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
CARBAZOLE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
CHRYSENE	g/kg	372 UJ	48.3 J	379 UJ	361 UJ	3,180 J	357 U	393 UJ	367 UJ	379 UJ
DIBENZ(A,H)ANTHRACENE	g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
DIBENZOFURAN	g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
DIETHYL PHTHALATE	g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
DIMETHYL PHTHALATE	g/kg	372 U	361 U	379 U	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
DI-N-BUTYL PHTHALATE	g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
DI-N-OCTYLPHTHALATE	g/kg	372 U	361 U	379 U	361 UJ	10,400 UJ	357 UJ	393 UJ	126 J	379 UJ
FLUORANTHENE	g/kg	372 U	88 J	379 UJ	37.3 J	10,400 U	357 U	393 UJ	367 UJ	379 UJ
FLUORENE	g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
HEXACHLOROBENZENE	g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 U
HEXACHLOROBUTADIENE	g/kg	372 U	361 U	379 U	361 U	10,400 U	357 U	3,120 J	2,180 J	379 U
HEXACHLOROCYCLOPENTADIENE	g/kg	372 UJ	361 UJ	379 UJ	361 U	10,400 U	357 U	393 U	367 U	379 U
HEXACHLOROETHANE	g/kg	372 UJ	361 U	379 U	361 UJ	10,400 UJ	357 U	7,960 J	10,000 J	379 UJ
INDENO(1,2,3-C,D)PYRENE	g/kg	372 U	361 UJ	379 UJ	361 U	10,400 U	357 U	393 UJ	367 UJ	379 UJ
ISOPHORONE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
NAPHTHALENE	g/kg	372 UJ	361 UJ	379 UJ	361 U	4,030 J	357 U	393 UJ	367 UJ	379 UJ
NITROBENZENE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 U	393 UJ	367 UJ	379 UJ
N-NITROSODI-N-PROPYLAMINE	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
N-NITROSODIPHENYLAMINE	g/kg	372 U	361 U	379 U	361 U	10,400 U	357 UJ	393 UJ	367 UJ	379 UJ
PENTACHLOROPHENOL	g/kg	936 UJ	907 UJ	952 UJ	907 UJ	26,100 UJ	899 UJ	988 UJ	923 UJ	952 UJ
PHENANTHRENE	g/kg	372 U	103 J	379 UJ	51.8 J	14,200	357 U	393 UJ	367 UJ	379 UJ
PHENOL	g/kg	372 UJ	361 UJ	379 UJ	361 UJ	10,400 UJ	357 UJ	393 UJ	367 UJ	379 UJ
PYRENE	g/kg	372 U	71.2 J	379 U	42.8 J	2,240 J	357 U	393 UJ	367 UJ	379 UJ
Volatile Organic Compounds										
1,1,1-TRICHLOROETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,1,2,2-TETRACHLOROETHANE	g/kg	9.5 U	6.7 U	12 R	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,1,2-TRICHLOROETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,1-DICHLOROETHANE	g/kg	9.5 U	6.7 U	1.6 J	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,1-DICHLOROETHENE	g/kg	9.5 U	1.4 J	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,2,4-TRICHLOROBENZENE	g/kg	9.5 U	6.7 U	12 U	1,620 J	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,2-DIBROMO-3-CHLOROPROPANE	g/kg	9.5 U	13,000	21.2 J	2,260 U	25.3 U	1,650 U	87,500	73,400	1,200 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	g/kg	9.5 U	2.9 J	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,2-DICHLOROBENZENE	g/kg	9.5 U	6.7 U	12 U	2,940	25.3 U	1,650 U	21,200 U	452 J	1,200 U
1,2-DICHLOROETHANE	g/kg	9.5 U	2.1 J	12 UJ	2,260 U	25.3 U	846 J	21,200 U	940 J	1,200 U
1,2-DICHLOROETHYLENES	g/kg	9.5 U	6.7 U	32.5 J	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,2-DICHLOROPROPANE	g/kg	9.5 U	8	1 J	2,260 U	25.3 U	1,650 U	1,210 J	1,140 J	1,200 U
1,3-DICHLOROBENZENE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
1,4-DICHLOROBENZENE	g/kg	9.5 U	0.75 J	12 U	7,670	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
2-HEXANONE	g/kg	9.5 U	6.7 U	12 UJ	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
ACETONE	g/kg	16.6	50.7	11.6 J	2,260 UJ	279 U	874 U	21,200 UJ	10,800 UJ	1,200 UJ
BENZENE	g/kg	9.5 U	0.8 J	1,220	1,820 J	9,420	66 J	21,200 U	10,800 U	74.5 J
BROMOCHLOROMETHANE	g/kg	9.5 U	1.5 J	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
BROMODICHLOROMETHANE	g/kg	9.5 U	3.9 J	12 U	2,260 U	25.3 U	1,650 U	131,000	65,500	1,200 U
BROMOFORM	g/kg	9.5 U	174 J	12 U	2,260 U	25.3 U	1,650 U	48,600	23,300	1,200 U
BROMOMETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 UJ	25.3 U	1,650 U	21,200 UJ	10,800 UJ	1,200 UJ
CARBON DISULFIDE	g/kg	9.5 U	10.1	12 UJ	2,260 U	10.8 J	1,650 U	21,200 U	10,800 U	1,200 U
CARBON TETRACHLORIDE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	3,850,000	1,270,000	850 J
CHLOROBENZENE	g/kg	0.73 J	1.7 J	11.7 J	391,000 J	28.2 J	1,650 U	21,200 U	10,800 U	1,200 U
CHLOROETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 UJ	25.3 U	1,650 U	21,200 UJ	10,800 UJ	1,200 UJ
CHLOROFORM	g/kg	9.5 U	212 J	3 J	213 J	3.5 J	1,650 U	77,100	44,600	37.6 J
CHLOROMETHANE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
CIS-1,3-DICHLOROPROPENE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
CYCLOHEXANE	g/kg	9.5 U	6.7 U	1.3 J	202 J	71,900	1,650 U	21200 U	10,800 U	1,200 U

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TABLE 3-1
Shallow Soil Boring Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBS-22	SBS-23	SBS-24	SBS-25	SBS-26	SBS-27	SBS-28	SBS-28	SBS-29
Field Sample Identification:		05CB03-84	05CB03-94	05CB03-91	05CB25-22	05CB25-23	05CB25-26	05CB25-33	05CB25-34	05CB25-36
Sample Interval:		10'-12'	16'-18'	10'-13'	12'-14'	12'-14'	4'-6'	12'-16'	12'-16'	15'-17'
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil, Dup	Soil
Sample Collection Date:		2/21/2005	2/22/2005	2/22/2005	3/18/2005	3/18/2005	3/23/2005	4/6/2005	4/6/2005	4/7/2005
DIBROMOCHLOROMETHANE	g/kg	9.5 U	3.2 J	12 U	2,260 U	25.3 U	1,650 U	92,700	48,400	1,200 U
DICHLORODIFLUOROMETHANE	g/kg	9.5 U	6.7 UJ	12 UJ	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
DIMETHYL BENZENE	g/kg	9.5 U	6.7 U	12 U	390 J	217,000	1,650 U	21,200 U	10,800 U	1,200 U
ETHYLBENZENE	g/kg	9.5 U	6.7 U	12 U	157 J	51,400	1,650 U	21,200 U	10,800 U	1,200 U
ISOPROPYLBENZENE (CUMENE)	g/kg	9.5 U	6.7 U	12 U	2,260 U	194 J	1,650 U	21,200 U	10,800 U	1,200 U
METHYL ACETATE	g/kg	9.5 U	6.7 U	12 R	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
METHYL ETHYL KETONE (2-BUTANONE)	g/kg	9.5 U	58.2	12 UJ	2,260 U	50.8	1,650 U	21,200 U	10,800 U	1,200 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	g/kg	9.5 U	2.1 J	12 UJ	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
METHYLCYCLOHEXANE	g/kg	0.51 J	0.44 J	0.7 J	263 J	193,000	1,650 U	21,200 U	10,800 U	1,200 U
METHYLENE CHLORIDE	g/kg	9.5 U	2.1 J	12 U	223 J	25.3 U	233 J	1,620 J	864 J	1,200 U
STYRENE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
TETRACHLOROETHYLENE(PCE)	g/kg	9.5 U	6.7 U	0.65 J	336 J	25.3 U	1,650 U	16,500 J	9,970 J	1,200 U
TOLUENE	g/kg	9.5 U	0.57 J	2.2 J	709 J	76,800	1,650 U	21,200 U	10,800 U	1,200 U
TRANS-1,3-DICHLOROPROPENE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U
TRICHLOROETHYLENE (TCE)	g/kg	9.5 U	8.3	603 J	415 J	26.7 J	1,650 U	80,700	19,800	1,870
TRICHLOROFLUOROMETHANE	g/kg	9.5 U	6.7 UJ	12 UJ	2,260 U	22.4 J	1,650 U	21,200 U	10,800 U	1,200 U
VINYL CHLORIDE	g/kg	9.5 U	6.7 U	12 U	2,260 U	25.3 U	1,650 U	21,200 U	10,800 U	1,200 U

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