TABLE 3-4
Intermediate Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBI-01		SBI-02		SBI-02		SBI-03		SBI-03		SBI-04		SBI-04		SBI-05		SBI-05B		SBI-06		SBI-07		SBI-07		SBI-07		SBI-08		MW-17D2	
Field Sample Identification:		05CB03-11		05CB03-07		05CB03-08		05CB03-05		05CB03-45		05BB03-04		05CB03-30		05CB03-02		05CB25-20		05CB25-16		05CB10-19		05CB25-18		05CB25-28		05CB25-21		05CB10-18	
Sample Interval:		39'-43'		45'-50'		45'-50'		33'-35'		51.3'-56.3'		24'-28'		67'-72'		26'		65'-70'		60.5'-65.5'		30'		39.5'-44.5'		56'-61'		62'-67'		30'	
Matrix:		Water		Water		Water, Dup		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water			
Sample Collection Date:		2/6/2005		2/3/2005		2/3/2005		2/1/2005		2/18/2005		1/25/2005		2/16/2005		1/23/2005		3/16/2005		3/5/2005		1/10/2005		3/7/2005		3/28/2005		3/17/2005		1/7/2005	
Metals																															
ALUMINUM	µg/L	2,060	J	213	J	630	J	5,520	J	150	UJ	387	J	992		14,200	J	12,100		1,950		722	J	1,680	J	300	U	642		28,500			
ANTIMONY	µg/L	2.3	UJ	2.3	UJ	2.3	UJ	46	R*	23	UJ	46	J	2.4	U	46	R*	115	U	23	U	2.3	U	230	U	46	U	2.3	U	11.5	UJ		
ARSENIC	µg/L	18	R*	9	R*	9	R*	50.6	J	11.3	J	41	J	1.36	J	36	R*	6.14	J	20.8	J	10.5	J	40.2	J	17	J	6.66		22.9	J		
BARIUM	µg/L	9,560	J	3,080	J	2,970	J	4,200	J	7,680	J	396	J	85.6	J	2,200	J	5,010		3,960		406	J	29,900		15,700		953		247	J		
BERYLLIUM	µg/L	0.2	R	0.2	UJ	0.2	UJ	8.73	J	3.06	UJ	3.6	J	0.255	U	10	J	24	J	5.48	J	0.459	J	41.6	J	7.93	J	0.485	U	3.71	J		
CADMIUM	µg/L	12.3	J	9.09	J	7.85	J	7	R*	18.9	J	3.5	R*	0.35	U	7	R*	17.5	U	31.1		3.5	R*	58.3	J	7	U	0.35	U	1.75	U		
CALCIUM	µg/L	2,090,000	J	1,070,000	J	1,060,000	J	2,980,000	J	2,110,000	J	1,250,000	J	73,000		3,460,000	J	7,490,000		2,290,000		1,650,000	J	12,900,000		10,400,000	J	574,000	J	625,000			
CHROMIUM, TOTAL	µg/L	4.87	J	5.37	J	6.92	J	26	R*	13	UJ	13	R*	4.1		33.3	J	65	U	13	U	4.13	J	130	U	26	U	2.59		59.5	J		
COBALT	µg/L	0.76	R	0.76	UJ	0.76	UJ	15.2	R*	7.6	UJ	7.6	R*	0.76	U	20.7	J	38	U	7.6	U	0.76	U	76	U	15.2	U	0.76	U	23.1			
COPPER	µg/L	2.85	J	8.91	J	9.65	J	31.4	J	6.2	UJ	13.2	J	1.75	J	61.7	J	31	U	24.6	J	5.99	J	62	U	25.9	J	3.02	J	46.2	J		
CYANIDE	µg/L	NR		NR		NR		NR		5.44	U	NR		3.7	U	NR		3.7	U	28.1	J	NR		3.7	U	3.7	U	3.7	U	NR			
IRON	µg/L	60,600	J	18,900	J	19,800	J	14,800	J	8,920	J	9,910	J	2,190		39,800	J	39,100		8,530		5,780	J	920	U	184	U	1,960		62,000			
LEAD	µg/L	23.6	J	11	R*	11	R*	44	R*	22	UJ	22	R*	2.2	U	59.9	J	110	U	22	U	22	R*	220	U	110	UJ	11	UJ	30	J		
MAGNESIUM	µg/L	167,000	J	164,000	J	158,000	J	827,000	J	479,000	J	238,000	J	23,800		593,000	J	919,000		471,000		112,000	J	774,000		383,000		150,000		170,000			
MANGANESE	µg/L	348	J	343	J	340	J	1,020	J	824	J	336	J	79.8	J	2,270	J	2,190		519		408	J	483		55.2		213		833			
MERCURY	µg/L	0.025	U	0.297	J	0.025	UJ	0.0356	J	0.025	U	0.0888	J	0.025	U	0.101	J	0.025	U	0.025	U	0.025	UJ	0.025	U	0.58		0.0322	J	0.086	J		
NICKEL	µg/L	22.7	J	10.5	J	12.6	J	38.4	J	17	UJ	25.2	J	3.13	J	522	J	276		29.8	J	17	R*	170	U	496	J	14.5	J	430			
POTASSIUM	µg/L	72,300	J	32,400	J	31,900	J	13,800	J	15,400	J	6,620	J	1,920		56,500	J	20,800	J	18,500		278,000	J	91,700		128,000		6,580		20,500			
SELENIUM	µg/L	26	R*	76.9	J	60.8	J	52	UJ	45.8	J	26.2	J	2.6	U	104	J	130	U	29.9	J	38.4	J	260	U	130	UJ	13	UJ	17.5	J		
SILICA	mg/L	26.7	J	NR		NR		25	J	13.8	J	25.5	J	41.5	J	877	J	57.8	J	19.6	J	25.9	J	8.88	J	5.52	J	15	J	248	J		
SILVER	µg/L	1.83	J	1.14	J	0.895	J	13	R*	6.5	UJ	7.41	J	0.65	U	13	R*	32.5	U	6.5	U	2.34	J	65	U	13	U	0.65	U	0.65	U		
SODIUM	µg/L	702,000	J	601,000	J	597,000	J	1,910,000	J	1,080,000	J	1,250,000	J	38,800		1,470,000	J	3,400,000		694,000		942,000	J	3,370,000		3,180,000		202,000		518,000			
THALLIUM	µg/L	119	J	29.8	J	40.6	J	84	UJ	42	UJ	42	R*	4.2	U	84	R*	416		83.4		42	R*	420	U	210	UJ	21	UJ	21	U		
VANADIUM	µg/L	4.81	J	1.1	UJ	1.52	J	29.5	J	11	UJ	11	R*	3.12		63.3	J	55	U	11	U	1.66	J	110	U	22	U	1.15	J	96.5			
ZINC	µg/L	9.4	UJ	257	J	260	J	18.8	R*	9.4	UJ	9.4	UJ	6.83	U	18.8	UJ	47	U	9.4	U	9.4	U	94	U	18.8	U	1.43	J	179			
Pesticides/PBB/HBB																															
HEXABROMOBENZENE	µg/L	0.1	UJ	0.1	UJ	0.11	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U		
HEXABROMOBIPHENYL	µg/L	0.1	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
O,P'-DDD	µg/L	0.1	UJ	0.1	UJ	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
O,P'-DDE	µg/L	0.1	UJ	0.1	UJ	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
O,P'-DDT	µg/L	0.1	UJ	0.1	U	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
P,P'-DDD	µg/L	0.1	UJ	0.1	U	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
P,P'-DDE	µg/L	0.1	UJ	0.1	U	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
P,P'-DDT	µg/L	0.1	UJ	0.059	J	0.11	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.06	J	0.1	U	0.1	U	0.1	U	0.1	U	0.039	U	0.1	U	0.1	U		
Semivolatile Organic Compounds																															
2,4,5-TRICHLOROPHENOL	µg/L	25.2	UJ	26.3	UJ	26.3	U	27.8	UJ	25	U	25.2	U	25	U	25	U	26.3	UJ	25.5	UJ	25.2	U	25.5	UJ	27.2	UJ	26.3	UJ	25	U		
2,4,6-TRICHLOROPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
2,4-DICHLOROPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
2,4-DIMETHYLPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	UJ	10	U	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
2,4-DINITROPHENOL	µg/L	25.2	UJ	26.3	UJ	26.3	UJ	27.8	UJ	25	U	25.2	UJ	25	U	25	UJ	26.3	UJ	25.5	UJ	25.2	UJ	25.5	UJ	27.2	UJ	26.3	UJ	25	UJ		
2,4-DINITROTOLUENE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	U	10	U	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
2,6-DINITROTOLUENE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	U		
2-CHLORONAPHTHALENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
2-CHLOROPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
2-METHYLNAPHTHALENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
2-METHYLPHENOL (O-CRESOL)	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
2-NITROANILINE	µg/L	25.2	UJ	26.3	UJ	26.3	UJ	27.8	UJ	25	UJ	25.2	UJ	25	UJ	25	UJ	26.3	UJ	25.5	UJ	25.2	U	25.5	UJ	27.2	UJ	26.3	UJ	25	U		
2-NITROPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
3,3'-DICHLOROBENZIDINE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
3-NITROANILINE	µg/L	25.2	UJ	26.3	UJ	26.3	U	27.8	UJ	25	U	25.2	UJ	25	U	25	UJ	26.3	UJ	25.5	UJ	25.2	U	25.5	UJ	27.2	UJ	26.3	UJ	25	U		
4,6-DINITRO-2-METHYLPHENOL	µg/L	25.2	UJ	26.3	UJ	26.3	UJ	27.8	UJ	25	U	25.2	UJ	25	U	25	UJ	26.3	UJ	25.5	UJ	25.2	UJ	25.5	UJ	27.2	U	26.3	UJ	25	UJ		
4-BROMOPHENYL PHENYL ETHER	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
4-CHLORO-3-METHYLPHENOL	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
4-CHLOROANILINE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
4-CHLOROPHENYL PHENYL ETHER	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
4-METHYLPHENOL (P-CRESOL)	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
4-NITROANILINE	µg/L	25.2	UJ	26.3	UJ	26.3	U	27.8	UJ	25	UJ	25.2	UJ	25	UJ	25	U	26.3	UJ	25.5	UJ	25.2	U	25.5	UJ	27.2	UJ	26.3	UJ	25	U		
4-NITROPHENOL	µg/L	25.2	UJ	26.3	UJ	26.3	UJ	27.8	UJ	25	UJ	25.2	UJ	25	UJ	25	UJ	26.3	UJ	25.5	UJ	25.2	UJ	25.5	UJ	27.2	UJ	26.3	UJ	25	UJ		
ACENAPHTHENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	U	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
ACENAPHTHYLENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	U	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
ACETOPHENONE	µg/L	10.1	U	10.5	U	10.5	U	11.1	UJ	10	UJ	10.1	U	10	UJ	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
ANTHRACENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	U	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BENZALDEHYDE	µg/L	10.1	U	10.5	U	10.5	U	11.1	UJ	10	UJ	10.1	U	10	UJ	10	U	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
BENZO(A)ANTHRACENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BENZO(A)PYRENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	U	10	U	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BENZO(B)FLUORANTHENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	U	10	U	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BENZO(G,H,I)PERYLENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	U		
BENZO(K)FLUORANTHENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	U		
BENZYL BUTYL PHTHALATE	µg/L	10.1	UJ	10.5	U	10.5	U	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	U		
BIPHENYL (DIPHENYL)	µg/L	10.1	U	10.5	U	10.5	U	11.1	UJ	10	UJ	10.1	U	10	UJ	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BIS(2-CHLOROETHOXY) METHANE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	U	10.5	UJ	10	U		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BIS(2-CHLOROISOPROPYL) ETHER	µg/L	10.1	UJ	10.5	U	10.5	U	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
BIS(2-ETHYLHEXYL) PHTHALATE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	79.8			
CAPROLACTAM	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	10	UJ		
CARBAZOLE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
CHRYSENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	U		
DIBENZ(A,H)ANTHRACENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	UJ	10	UJ	10.5	U	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	U	10	UJ		
DIBENZOFURAN	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
DIETHYL PHTHALATE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
DIMETHYL PHTHALATE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	U	10.1	UJ	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
DI-N-BUTYL PHTHALATE	µg/L	10.1	UJ	10.5	UJ	10.5	U	11.1	UJ	10	UJ	10.1	U	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
DI-N-OCTYLPHTHALATE	µg/L	10.1	UJ	3.6	J	3.8	J	11.1	UJ	10	U	10.1	U	10	U	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
FLUORANTHENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	U	10	UJ	10	U	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
FLUORENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	U	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	UJ	10.5	UJ	10	U		
HEXACHLOROBENZENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	U	10.2	UJ	10.9	U	10.5	UJ	10	U		
HEXACHLOROBUTADIENE	µg/L	10.1	UJ	10.5	UJ	10.5	UJ	11.1	UJ	10	UJ	10.1	UJ	10	UJ	10	UJ	10.5	UJ	10.2	UJ	10.1	UJ	10.2	UJ	10.9	UJ	10.5	UJ	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 3-4
Intermediate Soil Boring - Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		SBI-01	SBI-02	SBI-02	SBI-03	SBI-03	SBI-04	SBI-04	SBI-05	SBI-05B	SBI-06	SBI-07	SBI-07	SBI-07	SBI-08	MW-17D2
Field Sample Identification:		05CB03-11	05CB03-07	05CB03-08	05CB03-05	05CB03-45	05BB03-04	05CB03-30	05CB03-02	05CB25-20	05CB25-16	05CB10-19	05CB25-18	05CB25-28	05CB25-21	05CB10-18
Sample Interval:		39'-43'	45'-50'	45'-50'	33'-35'	51.3'-56.3'	24'-28'	67'-72'	26'	65'-70'	60.5'-65.5'	30'	39.5'-44.5'	56'-61'	62'-67'	30'
Matrix:		Water	Water	Water, Dup	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Sample Collection Date:		2/6/2005	2/3/2005	2/3/2005	2/1/2005	2/18/2005	1/25/2005	2/16/2005	1/23/2005	3/16/2005	3/5/2005	1/10/2005	3/7/2005	3/28/2005	3/17/2005	1/7/2005
HEXACHLOROCYCLOPENTADIENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 UJ	10.1 UJ	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 UJ	10.2 UJ	10.9 UJ	10.5 UJ	10 UJ
HEXACHLOROETHANE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 UJ	10.1 UJ	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 UJ	10.2 UJ	10.9 UJ	10.5 UJ	10 UJ
INDENO(1,2,3-C,D)PYRENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 U	10.1 U	10 UJ	10 UJ	10.5 U	10.2 UJ	10.1 U	10.2 UJ	10.9 U	10.5 U	10 UJ
ISOPHORONE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 U	10.1 UJ	10 U	10 UJ	10.5 UJ	10.2 UJ	10.1 U	10.2 UJ	10.9 UJ	10.5 UJ	10 U
NAPHTHALENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 UJ	10.1 UJ	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 U	10.2 UJ	10.9 UJ	10.5 UJ	10 U
NITROBENZENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 UJ	10.1 UJ	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 U	10.2 UJ	10.9 UJ	10.5 UJ	10 U
N-NITROSODI-N-PROPYLAMINE	µg/L	10.1 UJ	10.5 UJ	10.5 U	11.1 UJ	10 U	10.1 UJ	10 U	10 U	10.5 UJ	10.2 UJ	10.1 UJ	10.2 UJ	10.9 UJ	10.5 UJ	10 UJ
N-NITROSODIPHENYLAMINE	µg/L	10.1 UJ	10.5 U	10.5 U	11.1 U	10 U	10.1 U	10 U	10 UJ	10.5 U	10.2 U	10.1 U	10.2 U	10.9 UJ	10.5 U	10 U
PENTACHLOROPHENOL	µg/L	25.2 UJ	26.3 UJ	26.3 UJ	27.8 UJ	25 U	25.2 UJ	25 UJ	25 UJ	26.3 UJ	25.5 UJ	25.2 U	25.5 UJ	27.2 U	26.3 UJ	25 UJ
PHENANTHRENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 UJ	10.1 U	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 U	10.2 UJ	10.9 UJ	10.5 UJ	10 U
PHENOL	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 U	10.1 UJ	10 UJ	10 UJ	10.5 UJ	10.2 UJ	10.1 UJ	10.2 UJ	10.9 UJ	10.5 UJ	10 UJ
PYRENE	µg/L	10.1 UJ	10.5 UJ	10.5 UJ	11.1 UJ	10 U	10.1 UJ	10 U	10 UJ	10.5 U	10.2 UJ	10.1 U	10.2 UJ	10.9 UJ	10.5 U	10 U
Volatile Organic Compounds																
1,1,1-TRICHLOROETHANE	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 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	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
1,1-DICHLOROETHANE	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.84 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
1,1-DICHLOROETHENE	µg/L	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
1,2,4-TRICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-DICHLOROETHYLENES	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.4 J	2.2 U	2.2 U	2.2 U	2.2 U
1,2-DICHLOROPROPANE	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
1,3-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
2-HEXANONE	µg/L	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U
ACETONE	µg/L	5.6 U	5.6 UJ	5.6 UJ	5.6 U	5.6 U	5.6 U	5.6 U	19.5	5.6 U	5.6 U	5.6 U	5.6 U	18.2	5.6 U	5.6 UJ
BENZENE	µg/L	0.5 U	0.5 U	0.5 U	0.18 J	0.5 U	0.5 U	0.5 U	4.1	0.5 U	0.5 U	0.5 U	0.5 U	0.22 J	0.5 U	0.5 U
BROMOCHLOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
BROMODICHLOROMETHANE	µg/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 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	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
BROMOMETHANE	µg/L	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 UJ	2.8 U	2.8 UJ	2.8 U	2.8 U	2.8 U
CARBON DISULFIDE	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 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	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROETHANE	µg/L	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
CHLOROFORM	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
CHLOROMETHANE	µg/L	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 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	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CYCLOHEXANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
DIBROMOCHLOROMETHANE	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 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	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 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	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ETHYLBENZENE	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ISOPROPYLBENZENE (CUMENE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
METHYL ACETATE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	2 J	7.4 U	7.4 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
METHYLCYCLOHEXANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
METHYLENE CHLORIDE	µg/L	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
STYRENE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 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	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
TOLUENE	µg/L	1 U	1 U	1 U	0.41 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 J	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 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	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
TRICHLOROFLUOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
VINYL CHLORIDE	µg/L	3.5 U	14.4	14.6	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	48.8	3.5 U	3.5 U	3.5 U	3.5 U
Wet Chemistry																
ALKALINITY, BICARBONATE (AS $CACO_3$)	mg/L	269 J	250 J	261 J	47 J	50	266 J	201	1,850 J	52	59	75 J	57	43	119	325
ALKALINITY, CARBONATE (AS $CACO_3$)	mg/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	138	98	0.5 U	0.5 U
ALKALINITY, TOTAL (AS $CACO_3$)	mg/L	269 J	250 J	261 J	47 J	50	266 J	201	1,850 J	52	59	75 J	195	0.5 U	119	325
CHLORIDE (AS CL)	mg/L	4,650 R*	2,940 R*	2,890 R*	8,170 R*	6,170	14,200 R*	53.2	16,200 R*	23,000	6,810	8,130 R*	31,500	25,600	1,750	2,930
NITROGEN, NITRATE (AS N)	mg/L	0.0201 R*	0.0201 R*	0.0201 R*	0.0202 R*	0.0201 U	0.0346 R*	0.0201 U	0.0268 R*	0.0487 J	0.0201 UJ	0.0201 R*	0.0439 J	0.0473 J	0.0201 U	0.0201 U
NITROGEN, NITRITE	mg/L	NR	NR	NR	0.014 R*	NR	0.0163 R*	NR	0.0139 R*	NR	NR	NR	NR	NR	NR	NR
SULFATE (AS SO_4)	mg/L	0.22 R*	14 R*	4.34 R*	16 R*	5.84	237 R*	58 J	66.4 R*	79.3	77.8	245 R*	27.7	36.6	94.8	272

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*