

TABLE 3-7
TIER 1 COMPARISON VOC RESULTS 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Tier 1 Remediation Objectives - Soil									Soil Component to Groundwater (Class I)	UNITS	B-504	B-508	B-509
	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>					B-504-7	B-508-9	B-509-8
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial	Construction			7/13/2004	7/19/2004	7/21/2004
1,1,1-Trichloroethane	---	---	---	1,200	1,200	1,200	560	560	2	(mg/kg)	<0.883	<0.104	<0.001	
1,1,2,2-Tetrachloroethane	2,300	61,000	61,000	1,000	1,000	1,000	---	---	2	(mg/kg)	<0.883	<0.104	<0.001	
1,1,2-Trichloroethane	310	8,200	8,200	1,800	1,800	1,800	900	900	0.02	(mg/kg)	<0.883	<0.104	<0.001	
1,1-Dichloroethane	7,800	200,000	200,000	1,300	1,700	130	110	670	23	(mg/kg)	<0.883	<0.104	<0.001	
1,1-Dichloroethylene	700	18,000	18,000	15,000	15,000	300	13	77	0.06	(mg/kg)	<0.883	<0.104	<0.001	
1,2-Dichloroethane	7	63	1,400	0.4	0.7	0.99	0.066	0.48	0.2	(mg/kg)	<0.883	<0.104	<0.001	
1,2-Dichloropropane	9	84	1,800	15	23	0.5	0.023	0.17	0.03	(mg/kg)	<0.883	<0.104	<0.001	
2-Hexanone	3100 ⁽¹⁾	82000 ⁽¹⁾	8200 ⁽¹⁾	70 ⁽¹⁾	110 ⁽¹⁾	0.72 ⁽¹⁾	---	---	1.3 ⁽¹⁾	(mg/kg)	<8.83	<1.04	<0.0103	
Acetone	7,800	200,000	200,000	100,000	100,000	10,000	100,000	100,000	16	(mg/kg)	<8.83	2.5	0.031	
Bromodichloromethane	10	92	2,000	3,000	3,000	3,000	1,400	1,400	0.6	(mg/kg)	<0.883	<0.104	<0.001	
Bromoform	81	720	16,000	53	100	140	49	360	0.8	(mg/kg)	<0.883	<0.104	<0.001	
Carbon Disulfide	7,800	200,000	20,000	720	720	9	38	230	32	(mg/kg)	<2.65	<0.312	<0.0031	
Carbon tetrachloride	5	44	410	0.3	0.64	0.9	0.021	0.15	0.07	(mg/kg)	<0.883	<0.104	<0.001	
Chlorobenzene	1,600	41,000	4,100	130	210	1.3	54.0	330.0	1	(mg/kg)	<0.883	<0.104	<0.001	
Chloroethane	31,000 ⁽¹⁾	820,000 ⁽¹⁾	82,000 ⁽¹⁾	1500 ⁽¹⁾	1,500 ⁽¹⁾	94 ⁽¹⁾	---	---	15 ⁽¹⁾	(mg/kg)	<1.77	<0.208	<0.0021	
Chloroform	100	940	2,000	0.3	0.54	0.76	0.028	0.2	0.6	(mg/kg)	<0.883	<0.104	<0.001	
cis-1,2-Dichloroethylene	780	20,000	20,000	1,200	1,200	1,200	700	700	0.4	(mg/kg)	<0.883	<0.104	<0.001	
cis-1,3-Dichloropropene	6.40	57	1,200	1.1	2.10	0.39	---	---	0.004	(mg/kg)	<0.883	<0.104	<0.001	
Dibromochloromethane	1,600	41,000	41,000	1,300	1,300	1,300	---	---	0.4	(mg/kg)	<0.883	<0.104	<0.001	
Ethene, 1,2-dichloro-, (E)-	1,600	41,000	41,000	3,100	3,100	3,100	---	---	0.7	(mg/kg)	<0.883	<0.104	<0.001	
Methyl bromide	110	2,900	1,000	10	15	3.9	0.71	4.3	0.2	(mg/kg)	<1.77	<0.208	<0.0021	
Methyl chloride	310 ⁽¹⁾	8,200 ⁽¹⁾	820 ⁽¹⁾	110 ⁽¹⁾	170 ⁽¹⁾	1.1 ⁽¹⁾	---	---	0.14 ⁽¹⁾	(mg/kg)	<1.77	<0.208	<0.0021	
Methyl ethyl ketone	47,000	1,000,000	410,000	140,000	22,000	140	---	---	17	(mg/kg)	<8.83	<1.04	<0.0103	
Methyl isobutyl ketone (MIBK)	---	---	---	3,100 ⁽¹⁾	3,100 ⁽¹⁾	340 ⁽¹⁾	---	---	---	(mg/kg)	<8.83	<1.04	<0.0103	
Methyl tert-butyl ether	780	20,000	140	8,800	8,800	140	2,900	6,300	0.32	(mg/kg)	<0.441	<0.052	<0.0005	
Methylene chloride	85	760	12,000	13	24	34	1.4	10	0.02	(mg/kg)	<0.883	0.2	<0.001	
Styrene	16,000	410,000	41,000	1,500	1,500	430	230	230	4	(mg/kg)	<0.883	<0.104	<0.001	
Tetrachloroethylene	12	110	2,400	11	1,500	430	0.24	1.7	0.06	(mg/kg)	<0.883	<0.104	<0.001	
trans-1,3-Dichloropropene	6.40	57	1,200	1.1	2.1	0.39	0.061	0.45	0.004	(mg/kg)	<0.883	<0.104	<0.001	
Trichloroethylene	58	520	1,200	5	8.9	12	0.26	1.9	0.06	(mg/kg)	<0.883	<0.104	<0.001	
Vinyl chloride	0.3	7.9	170	0.03	1.1	1.1	0.011	0.15	0.01	(mg/kg)	<0.441	<0.52	<0.0005	

Notes: mg/kg Milligrams per kilogram
(1) Provisional remediation objective provided by IEPA
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
Analytical result exceeds one or more Tier 1 RO