

Table 1: Comparison of Proposed Direct Exposure Criteria (DEC) and Pollutant Mobility Criteria (PMC)

	DEC						PMC						DEC compare		PMC compare	
	Residential			Industrial Commercial			GA			GB			GA	GB	GA	GB
	RSR	2007	2008	RSR	2007	2008	RSR	2007	2008	RSR	2007	2008	RSR /08	RSR /08	RSR /08	RSR /08
milligrams/kilograms (mg/Kg)																
<b>Acetonitrile</b>	500		115			1,000		0.12	0.24	24.00	1.20	81.00	4			
<b>Benzene</b>	21.00		0.70	200		57.20	0.02		0.02	0.20	0.20	2.50	30	3		
<b>1,3-Dichlorobenzene</b>	500	203	67.70	1,000		1,000	12.	0.21	0.14	120	2.10	2.40	7		86	50
<b>1,2-Dichloroethane</b>	6.70		0.70	63.00		63.00	0.02	0.002	0.02	0.2	0.02	0.12	10			2
<b>Ethylene dibromide</b>	0.007		0.03	0.067	3	2.90	0.01	0.0004	0.005	0.1	0.004	0.005			2	20
<b>Nitrobenzene</b>	34.00		33.90	1000		1,000	1.00	0.04	0.20	1.00	0.35	33.40	1		5	
<b>1,1,1,2-Tetrachloroethane</b>	24.00		2.50	220		220	0.02	0.006	0.026	0.20	0.06	0.08	10			3
<b>1,1,2,2-Tetrachloroethane</b>	3.10		0.30	29.00		29.0	0.01	0.0008	0.01	0.10	0.01	0.03	10			4
<b>Trichloroethylene</b>	56.00		0.70	520		64.30	0.10	0.002	0.10	1.00	0.02	0.52	80	8		2
<b>1,2,4-Trimethylbenzene</b>	500		500	1,000		1,000	7.00	3.50	2.40	70.00	35.00	2.40			3	29
<b>1,3,5-Trimethylbenzene</b>	500		500	1,000		1,000	7.00	3.50	1.90	70.00	35.00	1.90			4	37
<b>Anthracene</b>	1,000	500	1,000	2,500	1000	2,500	40.	20.00	1.00	400	200	1.00			40	400
<b>Arsenic</b>	10.00	0.3	10.00	10.00	3.80	10.00	0.05	10.00	0.01	0.50	100	0.05			5	10
<b>Cadmium</b>	34.00		1.40	1,000		40.90	0.005	0.50	0.005	0.05	5.00	0.02	24	24		3
<b>Copper</b>	2,500		677	76,000		20,440	1.30	100.00	0.50	13.00	1,000	0.50	4	4	3	26
<b>Nickel</b>	1,400	135	45.00	7,500	4,088	1,363	0.10	7.00	40.00	1.00	70.00	2,900	31	6		
<b>Tin</b>	2,000	312	203	2,000	9,400	6,132		16.00	0.02		160	180	10			
<b>Zinc</b>	20,000		20,323	6.E+05		50,000	5.00	1000	1.00	50.00	10,000	6.50		12	5	8

RSR: The criteria in the remediation standard regulations

2008: The criteria proposed in November 2008

2007: The criteria proposed in October 2007

RSR/08: ratio of the current over the proposed criteria

Table 2: Comparison of Proposed Groundwater Protection Criteria (GWPC) and Surface Water Protection Criteria (SWPC)

micrograms/liter (µg/L)	GWPC			SWPC			GWPC	SWPC
	RSR	Proposed 2007	Proposed 2008	RSR	Proposed 2007	Proposed 2008	Compare RSR/08	Compare RSR/08
<b>Acetonitrile</b>	119	6	11.90		4,533	10,000	10	
<b>Benzene</b>	1	1	1	710	231	623		1
<b>1,3-Dichlorobenzene</b>	600	10.5	7	26,000	180	220	86	118
<b>1,2-Dichloroethane</b>	1	0.1	1	2,970	1098	2,967		1
<b>Nitrobenzene</b>	10	1.75	5	NE	577	2,210	2	
<b>1,1,2,2-Tetrachloroethane</b>	0.50	0.04	0.18	110	120	324	3	
<b>1,1,2-Trichloro-1,2,2-Trifluoro-ethane</b>	2.E+05	1,000	1,000	NE	10,000	10,000	200	
<b>Trichloroethylene</b>	5	0.1	5	2,340	127	343		7
<b>Anthracene</b>	2,000	1,000	1,000	1.E+06	7.30	5	2	220,000
<b>Bis(2-chloroisopropyl)ether</b>	12	0	5	3.E+06	694.04	1874	2	1,814
<b>Benzo(g,h,i)perylene</b>	210	0.34	0.48		54.79	148	438	
<b>Arsenic</b>	50	10	10	4	3	5	5	
<b>Cadmium</b>	5	0.50	5	6	1.50	1.50		4
<b>Copper</b>	1,300	100	1,000	48	50	50	1	
<b>Nickel</b>	100	7	40	880	142	290	3	3
<b>Tin</b>	210	16	21	NE	388	1,800	10	
<b>Zinc</b>	5,000	1,000	1,000	123	650	650	5	

NE: None Established

2008: The criteria proposed in November 2008

RSR: The criteria in the remediation standard regulations

RSR/08: Ratio of the current over the proposed criteria

2007: The criteria proposed in October 2007

1.E+06: Scientific notation for 1,000,000

Table 3: Comparison of Proposed Volatilization Criteria for Groundwater

micrograms/liter (µg/L)	Vol GW						Vol GW	Vol GW
	Res			Industrial/Commercial			Res	Ind/Com
	RSR	2007	2008	RSR	2007	2008	RSR/08	RSR/08
<b>Benzene</b>	215	127	125	3,491	308	304	2	11
<b>1,3-Dichlorobenzene</b>	24,200	356	119	50,000	4,380	1,428	203	35
<b>1,2-Dichloroethane</b>	21	6	6	90	65	63	4	1.43
<b>Ethylene dibromide</b>	4	0.24	1	16	11	2.8	4	6
<b>1,1,2,2-Tetrachloroethane</b>	23	1.40	1.74	100	55	39	13	3
<b>Trichloroethylene</b>	219	26	26	540	63	63	8	9

RSR: The criteria in the remediation standard regulations

2007: The criteria proposed in October 2007

2008: The criteria proposed in November 2008

RSR/08: Ratio of the current over the proposed criteria