



DEEP-REM-SEH-FS-500  
REFERENCE TABLE A

Volatile Organic Substances

**Significant Environmental Hazard Condition Notification Threshold Concentrations**

	Drinking Water Well  Groundwater Protection Criteria (µg/l)	Surface Soil Contamination Direct Exposure Criteria (mg/kg)		Volatile Organic Compounds Near a Building 10 x Volatilization Criteria <sup>3</sup>			
		Residential Land Use (15 x Res. DEC)	Industrial/Commercial Land Use (30 x I/C DEC)	Groundwater (µg/l)		Soil Vapor (ppm) <sup>4</sup>	
				Residential Land Use	Industrial or Commercial Land Use	Residential Land Use	Industrial or Commercial Land Use
Acetone	700	7500	note 1	note 2	note 2	24000	82500
Acrylonitrile	0.5	16.5	330	NE	NE	NE	NE
Acrolein	50,000 µg/l (SEE TABLE B)						
Benzene	1	315	6000	2150	5300	10	1130
Bromoform	4	1170	21600	9200	38000	15	60
2-Butanone(MEK)	400	7500	note 1	note 2	note 2	24000	82500
Carbon tetrachloride	5	70.5	1320	160	400	10	27
Chlorobenzene	100	7500	note 1	18000	61500	310	1060
Chloroform	6	1500	28200	2870	7100	45	104
Dibromochloromethane	0.5	109.5	2040	NE	NE	NE	NE
1,2-Dichlorobenzene	600	7500	note 1	305000	note 2	2400	8180
1,3-Dichlorobenzene	600	7500	note 1	242000	note 2	2400	8180
1,4-Dichlorobenzene	75	390	7200	note 2	note 2	9500	32700
1,1-Dichloroethane	70	7500	note 1	346000	note 2	8500	30370
1,2-Dichloroethane	1	100.5	1890	210	900	10	10
1,1-Dichloroethylene	7	15	285	10	60	10	10
cis-1,2-Dichloroethylene	70	7500	note 1	NE	NE	NE	NE
trans-1,2-Dichloroethylene	100	7500	note 1	NE	NE	NE	NE
1,2-Dichloropropane	5	135	2520	140	600	10	10
1,3-Dichloropropene	0.5	51	960	60	250	10	10
Ethylbenzene	700	7500	note 1	note 2	note 2	16500	56720



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		Residential Land Use (15 x Res. DEC)	Industrial/Commercial Land Use (30 x I/C DEC)	Groundwater (µg/l)		Soil Vapor (ppm) <sup>4</sup>	
				Residential Land Use	Industrial or Commercial Land Use	Residential Land Use	Industrial or Commercial Land Use
Ethylene dibromide (EDB)	0.05	0.105	2.01	40	160	10	10
Methyl-tert-butyl-ether	100	7500	note 1	note 2	note 2	10000	34150
Methyl isobutyl ketone	350	7500	note 1	note 2	note 2	1400	4800
Methylene chloride	5	1230	22800	note 2	note 2	12000	28070
Styrene	100	7500	note 1	5800	20650	80	280
1,1,1,2-Tetrachloroethane	1	360	6600	120	500	10	15
1,1,2,2-Tetrachloroethane	0.5	46.5	870	230	1000	10	10
Tetrachloroethylene	5	180	3300	15000	38200	110	270
Toluene	1000	7500	note 1	235000	note 2	7600	2615
1,1,1-Trichloroethane	200	7500	note 1	204000	note 2	13100	4520
1,1,2-Trichloroethane	5	165	3000	80000	196000	400	930
Trichloroethylene	5	840	15600	2190	5400	70	160
Vinyl chloride	2	4.8	90	20	20	10	10
Xylenes	530	7500	note 1	213000	note 2	5000	17020

Refer to the Remediation Standard Regulations for source of numbers reported or used in calculation for numbers in this table.

Information in this table is provided for convenience; it is the user's responsibility to verify that the tabulated concentrations are correct. In the case of errors in this table, the threshold concentrations, according to the provisions of CGS Section 22a-6u, govern.

Notes: There are no established acute aquatic toxicity criteria for volatile organic substances in the Water Quality Standards Regulations; thus there is no applicable threshold concentration to trigger notification for a threat to surface water.

In the event that free petroleum product is entering surface waters, contact DEEP's Emergency Response and Spill Prevention Division at 860-424-3338.

Note 1 Notification to owner by TEP not required by statutory exception.

Note 2 Notification to DEEP by owner not required when underlying Remediation Standard Regulation criterion equals 50000 ppb, as in this case.

Note 3 Adopted Remediation Standard Regulation values for volatilization criteria must be used to determine the hazard notification threshold concentration per the statutory requirement.

Note 4 Substances in soil vapor do not trigger notification. These values are provided for convenience, as applicable in 22a-6u(e)(2)(A).

NE No established Remediation Standard Regulation criterion to use in determining the significant environmental hazard notification threshold concentration.