7. REGULATIONS AND ADVISORIES

Because of its potential to cause adverse effects in exposed people, a number of regulations and advisory values have been established for BDCM by various national and state agencies. These values are summarized in Table 7-1. No international values were located.

7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to BDCM

Agency	Description	Value	References
	National		
Regulations			
a. Water			
EPA ODW	Maximum Contaminant Level (MCL) for Total Trihalomethanes	0.10 mg/L	40 CFR 141.12
	Monitoring Required for All Systems	NA[a]	40 CFR 141.40 EPA 1987a
EPA OSW	Groundwater Monitoring List (Appendix IX)	NA	40 CFR 264 EPA 1987b
EPA OWRS	General Permits Under the National Pollutant Discharge Elimination System (NPDES)	NA	40 CFR 122 Appendix D Table II
	General Pretreatment Regulations for Existing and New Sources of Pollution (halomethanes)	NA	40 CFR 403
FDA	Permissible Level in Bottled Water (Total Trihalomethanes)	0.10 mg/L	21 CFR 103.35
b. Non-specific Media			
EPA OERR	Reportable Quantity	5000 lb	40 CFR 302.4 EPA 1985a
Guidelines			
EPA OWRS	Ambient Water Quality Criteria to Protect Human Health[b]		EPA 1980b
	Ingesting Water and Organisms		
	10^{-5}	1.9 µg/L	
	10^{-6}	0.19 µg/L	
	10^{-7}	0.019 µg/L	
	Ingesting Organisms Only		
	10^{-5}	157 µg/L	
	10^{-6}	15.7 µg/L	
	10^{-7}	1.57 µg/L	
EPA	Reference Dose (RfD)	2E-2 mg/kg/d	EPA 1988
	State Regulations and Guidelines		
State Environmental Agencies	Drinking Water Standards and Guidelines		FSTRAC 1988
	Illinois	1.0 µg/L	
	Vermont	100 µg/L	

[a]Not applicable.

[b]Because of its carcinogenic potential, the EPA-recommended concentration for BDCM in ambient water is zero. However, because attainment of this level may not be possible, levels which correspond to upper bound incremental lifetime cancer risks of 10^{-5}, 10^{-6} and 10^{-7} are estimated. Since no quantitative data are available on the cancer risk from BDCM, the values are assumed to be equal to those for chloroform.