

APPENDIX 1.2

(continued)

USEPA drinking water standards and BAT for regulated contaminants							
Contaminant	Standards				Best Available Technology		Reference
	Regulation	Status	MCLG mg/L	MCL mg/L	Conventional Processes	Specialized Processes	
Nitrate - nitrite (both as N)	Phase II	Final	10	10		IX; RO	34
Selenium	Phase II	Final	0.05	0.05	C-F (See N); † LS†	AA; RO	34
Sulfate	Phase V	Proposed	400/500	400/500	C-F	IX; RO	40
Thallium	Phase V	Final	0.0005	0.002		AA; IX	40
Radionuclides							
Beta-particle and photon emitters	Interim			4 mrem	C-F		1
Alpha emitters	Rad	Proposed	zero	4 mrem	C-F	IX; RO	42
	Interim			15 pCi/L	C-F		1
	Rad	Proposed	zero	15 pCi/L	C-F	RO	42
Radium-226 + 228	Interim			5 pCi/L	C-F		1
Radium-226	Rad	Proposed	zero	20 pCi/L	LS†	IX; RO	42
Radium-228	Rad	Proposed	zero	20 pCi/L	LS†	IX; RO	42
Radon	Rad	Proposed	zero	300 pCi/L		Aeration	42
Uranium	Rad	Proposed	zero	20 µg/L	C-F; † LS†	AX; LS	42
Microbials							
Giardia lamblia	SWTR	Final	zero	TT	C-F; SSF; DEF; DF; D		15
Legionella	SWTR	Final§	zero	TT	C-F; SSF; DEF; DF; D		15
Standard plate count	SWTR	Final§	NA	TT	C-F; SSF; DEF; DF; D		15
Total coliforms	TCR	Final	zero	**	D		17
Turbidity	SWTR	Final	NA	PS	C-F; SSF; DEF; DF; D		15
Viruses	SWTR	Final§	zero	TT	C-F; SSF; DEF; DF; D		15

*Abbreviations used in this table: AA—activated alumina; AD—alternative disinfectants; AX—anion exchange; CC—corrosion control; C-F—coagulation-filtration; Cl₂—chlorination; D—disinfection; DEF—diatomaceous earth filtration; DF—direct filtration; GAC—granular activated carbon; IX—ion exchange; LS—lime softening; LSI.R—lead service line removal; OX—oxidation; PE—public education; PR—precursor removal; PS—performance standard 0.5-1.0 ntu; PTA—packed-tower aeration; RO—reverse osmosis; SWTR—source water treatment; TT—treatment technique

†The sum of the concentrations of bromodichloromethane, dibromochloromethane, tribromomethane, and trichloromethane

‡Coagulation-filtration and lime softening are not BAT for small systems for variances unless treatment is already installed.

§Final for systems using surface water; also being considered for ground-water systems

**No more than 5 percent of the samples per month may be positive. (For systems collecting fewer than 40 samples per month, no more than 1 sample per month may be positive.)