APPENDIXES

APPENDIX 1. ABBREVIATIONS USED FOR ORGANIC CONSTITUENTS AND HAZARDOUS-WASTE SITES

Organic constituents

1,2-Dichloroethene	1,2-DCE
cis-1,2-Dichloroethene	*cis*-1,2-DCE
trans-1,2-Dichloroethene	*trans*-1,2-DCE
Trichloroethene	TCE
Trichlorofluoromethane	TCFM
Tetrachloroethene	PCE
1,1,1-Trichloroethane	1,1,1-TCA

Hazardous-waste sites

Belvidere Municipal Landfill No. 1	BL1
Belvidere Municipal Landfill No. 2	BL2
MIG/DeWane Landfill	MDL
National Sewing Machine	NSM
Parson's Casket Hardware	PCH

APPENDIX 2. U.S. ENVIRONMENTAL PROTECTION AGENCY DRINKING-WATER STANDARDS ESTABLISHED UNDER GUIDELINES OF THE SAFE DRINKING WATER ACT OF 1986

[All values in milligrams per liter unless noted otherwise. --, no established regulation; TT, treatment technique; pCi/L, picocuries per liter; mrem, milliroentgens equivalent man per year; MFL, million fibers per liter; CU, Color Unit; TON, Threshold Odor Number; PS, performance standard 0.5–1.0 nephelometric turbidity units (NTU)]

Constituent or Property	Primary drinking-water standard[1]				Secondary drinking-water standard[2]	
	MCLG[3]	MCL[4]	Proposed MCLG[3]	Proposed MCL[4]	SMCL[5]	Proposed SMCL[5]
Inorganic Constituents and Nutrients						
Aluminum	--	--	--	--	0.05 to 0.2	--
Antimony	0.006	0.006	--	--	--	--
Arsenic	--	.05	--	--	--	--
Asbestos, MFL[6]	7	7	--	--	--	--
Barium	2	2	--	--	--	--
Beryllium	0	.001	--	--	--	--
Cadmium	.005	.005	--	--	--	--
Chloride	--	--	--	--	250	--
Chromium	.1	.1	--	--	--	--
Copper	1.3	TT	--	--	1	--
Cyanide	.2	.2	--	--	--	--
Fluoride	4	4	--	--	2	--
Iron	--	--	--	--	.3	--
Lead	0	TT	--	--	--	--
Manganese	--	--	--	--	.05	--
Mercury	.002	.002	--	--	--	--
Nickel	.1	.1	--	--	--	--
Nitrate (As N)	10	10	--	--	--	--
Nitrate + Nitrite (As N)	10	10	--	--	--	--
Nitrite (As N)	1	1	--	--	--	--
Selenium	.05	.05	--	--	--	--
Silver	--	--	--	--	.1	--
Sulfate	--	--	400/500	400/500	250	--
Thallium	.0005	.002	--	--	--	--
Total Dissolved Solids	--	--	--	--	500	--
Zinc	--	--	--	--	5	--
Organic Compounds						
Acrylamide	0	TT	--	--	--	--
Alachlor	0	.002	--	--	--	--
Aldicarb	--	--	.001	.003	--	--
Aldicard Sulfone	--	--	.001	.002	--	--
Aldicard Sulfoxide	--	--	.001	.004	--	--
Atrazine	.003	.003	--	--	--	--
Benzene	0	.005	--	--	--	--
Benzo (a) pyrene	0	.0002	--	--	--	--
Carbofuran	.04	.04	--	--	--	--
Carbon Tetrachloride	0	.005	--	--	--	--
Chlordane	0	.002	--	--	--	--
2,4-D (2,4-Dichloro-phenoxyacetic Acid)	.07	.07	--	--	--	--
Dalapon	.2	.2	--	--	--	--
Di (2-ethylhexyl) adipate	.5	.5	--	--	--	--
Di (2-ethylhexyl) phthalate	0	.006	--	--	--	--

Constituent or Property	Primary drinking-water standard[1] MCLG[3]	MCL[4]	Proposed MCLG[3]	Proposed MCL[4]	Secondary drinking-water standard[2] SMCL[5]	Proposed SMCL[5]
Dibromochloropropane (DBCP)	0	0.0002	--	--	--	--
p-Dichlorobenzene	.075	.075	--	--	--	--
o-Dichlorobenzene	.6	.6	--	--	--	--
1,2-Dichloroethane	0	.005	--	--	--	--
1,1-Dichloroethylene	.007	.007	--	--	--	--
cis-1,2-Dichloroethylene	.07	.07	--	--	--	--
trans-1,2-Dichloroethylene	.1	.1	--	--	--	--
Dichloromethane (methylene chloride)	0	.005	--	--	--	--
1,2-Dichloropropane	0	.005	--	--	--	--
Dinoseb	.007	.007	--	--	--	--
Diquat	.02	.02	--	--	--	--
Endothall	.1	.1	--	--	--	--
Endrin	.002	.002	--	--	--	--
Epichlorohydrin	0	TT	--	--	--	--
Ethylbenzene	.7	.7	--	--	--	--
Ethylene Dibromide (EDB)	0	.00005	--	--	--	--
Glyphosate	.7	.7	--	--	--	--
Heptachlor	0	.0004	--	--	--	--
Heptachlor Epoxide	0	.0002	--	--	--	--
Hexachlorobenzene	0	.001	--	--	--	--
Hexachlorocyclopentadiene	.05	.05	--	--	--	0.008
Lindane	.0002	.0002	--	--	--	--
Methoxychlor	.04	.04	--	--	--	--
Monochlorobenzene	.1	.1	--	--	--	--
Oxamyl (vydate)	.2	.2	--	--	--	--
Pentachlorophenol	0	.001	--	--	--	--
Pichloram	.5	.5	--	--	--	--
Polychlorinated Biphenyls (PCB's)	0	.0005	--	--	--	--
Simazine	.004	.004	--	--	--	--
Styrene	.1	.1	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD, dioxin)	0	5×10^{-8}	--	--	--	--
Tetrachloroethylene	0	.005	--	--	--	--
Toluene	1	1	--	--	--	--
Toxaphene	.05	.05	--	--	--	--
2,4,5-Trichlorophenoxy-propionic Acid (silvex)	.05	.05	--	--	--	--
1,2,4-Trichlorobenzene	.07	.07	--	--	--	--
1,1,1-Trichloroethane	.2	.2	--	--	--	--
1,1,2-Trichloroethane	.003	.005	--	--	--	--
Trichloroethylene	0	.005	--	--	--	--
Trihalomethanes, total[7]	--	.1	--	--	--	--
Vinyl Chloride	0	.002	--	--	--	--
Xylenes (Total)	10	10	--	--	--	--
Microbiological						
Giardia Lamblia[8]	0	TT	--	--	--	--
Legionella[8]	0	TT	--	--	--	--
Total Coliforms (including Fecal Coliform and E. Coli)	0	[8]--	--	--	--	--
Viruses[9]	0	TT	--	--	--	--
Radioactivity						
Beta Particle and Photon emitters	--	[10]4 mrem	0 pCi/L	4 mrem	--	--
Alpha emitters	--	15 pCi/L	0 pCi/L	15 pCi/L	--	--
Radium-226 + 228	--	5 pCi/L	--	--	--	--
Radium-226	--	--	0 pCi/L	20 pCi/L	--	--

Constituent or Property	Primary drinking-water standard[1]				Secondary drinking-water standard[2]	
	MCLG[3]	MCL[4]	Proposed MCLG[3]	Proposed MCL[4]	SMCL[5]	Proposed SMCL[5]
Radioactivity—Continued						
Radium-228	--	--	0 pCi/L	20 pCi/L	--	--
Radon	--	--	0 pCi/L	300 pCi/L	--	--
Uranium	--	--	0 pCi/L	20 µg/L	--	--
Miscellaneous Properties						
Color	--	--	--	--	15 CU	--
Corrosivity	--	--	--	--	non-corrosive	--
Foaming Agents	--	--	--	--	.5	--
Odor	--	--	--	--	3 TON	--
pH	--	--	--	--	6.5–8.5 (standard units)	--
Standard plate count	--	TT	--	--	--	--
Total dissolved solids (TDS)	--	--	--	--	500	--
Turbidity	--	PS	--	--	--	--

[1]From Pontius (1993).

[2]From Pontius (1992).

[3]MCLG, Maximum Contaminant Level Goal. Nonenforceable health goal that is to be set at the level at which no known or anticipated adverse effects on the health of person occur and that allows an adequate margin of safety. Formerly called Recommended Maximum Contaminant Level (RMCL).

[4]MCL, Maximum Contaminant Level. Enforceable, health-based regulation that is to be set as close to the MCLG as is feasible. The definition of feasible means the use of best technology, treatment techniques, and other means that the Administrator of U.S. Environmental Protection Agency finds, after examination for efficacy under field conditions and not solely under laboratory conditions that are generally available (taking cost into consideration).

[5]SMCL, Secondary Maximum Contaminant Level. Contaminants that affect the aesthetic quality of drinking water. At high concentrations or values, health implications, as well as aesthetic degradation also may be present. SMCL's are not Federally enforceable but are intended as guidelines for the States.

[6]Fiber length greater than 10 micrometers.

[7]The sum of the concentrations of bromodichloromethane, dibromochloromethane, tribromomethane, and trichloromethane.

[8]MCL is based on presence/absence of total coliforms in sample rather than on an estimate of coliform density. 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.)

[9]Treatment-technique requirements have been established.

[10]Average annual concentrations assumed to produce a total body (or organ) dose of 4 mrem/yr—tritium 20,000 pCi/L (strontium-90, 8 pCi/L).

REFERENCES

Pontius, F.W., 1992, A current look at the Federal drinking water regulations: Journal of the American Water Works Association, v. 84, no. 3, p. 36–50.

———1993, Federal drinking water regulation update: Journal of the American Water Works Association, v. 85, no. 2, p. 42–51.