

# Federal and NJ State Primary and Secondary Drinking Water Standards as of February 2005

## Volatile Organic Compounds

Contaminants	Maximum Contaminant Levels [MCL] [µg/l or ppb]
Benzene	1*
Carbon Tetrachloride	2*
1,2-Dichlorobenzene	600
1,3-Dichlorobenzene	600*
1,4-Dichlorobenzene	75
1,1-Dichloroethane	50*
1,2-Dichloroethane	2*
1,1-Dichloroethylene	2*
cis-1,2-Dichloroethylene	70
trans-1,2-Dichloroethylene	100
1,2-Dichloropropane	5
Ethylbenzene	700
Methyl tertiary Butyl Ether	70*
Methylene Chloride	3*
Monochlorobenzene	50*
Naphthalene	300*
Styrene	100
1,1,2,2-Tetrachloroethane	1*
Tetrachloroethylene	1*
Toluene	1,000
1,2,4-Trichlorobenzene	9*
1,1,1-Trichloroethane	30*
1,1,2-Trichloroethane	3*
Trichloroethylene	1*
Vinyl Chloride	2
Xylenes [total]	1,000*

\* N.J. MCL [A-280]

**Key:** One milligram per liter [mg/l] = one part per million = one cent in \$10,000 or one second in 12 days.  
One microgram per liter [µg/l] = one part per billion = one cent in \$10,000,000 or one second in 32 years.

**Trihalomethanes** 80 µg/l [ppb] running annual average  
Total of Dichlorobromomethane, Chlorodibromomethane, Bromoform and Chloroform.

**Halooacetic Acids** 60 µg/l ppb running annual average  
Total of Monochloroacetic, Dichloroacetic, Trichloroacetic, Bromoacetic and Dibromoacetic acids.

**Bromate** (plants using ozone) 10 µg/l (ppb) running annual average

**Chlorite** (plants using chlorine dioxide) 1,000 µg/l (ppb) daily/follow-up monitoring

**Radionuclides** Combined radium 226/228 mcl is 5 picocuries/l (pCi/l); gross alpha particle radioactivity (including radium 226 but excluding radon and uranium) MCL is 15 pCi/l; beta/photon emitters MCL is 4 mrem/yr; uranium MCL is 30 µg/l.

**Turbidity** No more than 5% of the samples may exceed 0.3 NTU, nor any sample exceed 1 NTU.

**Coliform bacteria** standards are based on the presence or absence of coliforms in a sample. The number of samples collected by a public water system is determined by the size of the population served. A system collecting at least 40 samples/month can have coliform in no more than 5% of the samples. A system collecting fewer than 40 samples/month can have no more than one coliform positive. Any number exceeding these amounts triggers an MCL exceedence.

## Inorganics

Contaminants	Maximum Contaminant Levels [MCL] [µg/l or ppb]
Antimony	6
Arsenic	5 * #
Asbestos	7 X 10 <sup>6</sup> fibers/l > 10µm
Barium	2,000
Beryllium	4
Cadmium	5
Chromium	100
Copper	1,300**[AL]
Cyanide	200
Fluoride	4,000
Lead	15**[AL]
Mercury	2
Nickel	+
Nitrate[as nitrogen]	10,000
Nitrite	1,000
[combined nitrate/nitrite]	10,000]
Selenium	50
Thallium	2

\*\*An [AL] action level is not an MCL. It is a trigger point at which remedial action is to take place.

+No MCL - Monitoring Required

# Effective January 23, 2006

\* N.J. MCL [A-280]

## Synthetic Organic Compounds

Contaminants	Maximum Contaminant Levels [MCL] [µg/l or ppb]
Alachlor	2
Aldicarb	+
Aldicarb Sulfone	+
Aldicarb Sulfoxide	+
Atrazine	3
Benzo[a]pyrene	0.2
Carbofuran	40
Chlordane	0.5*
Dalapon	200
Dibromochloropropane [DBCP]	0.2
Di[2-ethylhexyl]adipate	400
Di[2-ethylhexyl]phthalate	6
Dinoseb	7
Diquat	20
Endothall	100
Endrin	2
Ethylene dibromide [EDB]	0.05
Glyphosate	700
Heptachlor	0.4
Heptachlor Epoxide	0.2
Hexachlorobenzene	1
Hexachlorocyclopentadiene	50
Lindane	0.2
Methoxychlor	40
Oxamyl	200
PCBs	0.5
Pentachlorophenol	1
Picloram	500
Simazine	4
Toxaphene	3
2,3,7,8-TCDD [Dioxin]	3 X 10 <sup>-5</sup>
2,4-D	70
2,4,5-TP [Silvex]	50

\* N.J. MCL [A-280]

+No MCL - Monitoring Required

For a detailed explanation of the Safe Drinking Water Program, refer to the Federal Safe Drinking Water Act regulations [40 CFR Parts 141, 142, 143] and the New Jersey Safe Drinking Water regulations [N.J.A.C. 7:10-1 et seq.].

## Secondary Standards

[primarily aesthetic]

Physical Characteristics	Recommended Upper Limit or Optimum Range
Color	10 color units (standard cobalt scale)
pH	6.5 to 8.5 (optimum range)
Odor	3 Threshold odor number
Taste	No objectionable taste
Chemical Characteristics	Recommended Upper Limit [mg/l or ppm]
ABS/L.A.S.	0.5
Aluminum	0.2
Chloride	250
Fluoride	2
Hardness (as CaCO <sub>3</sub> )	250
Iron	0.3
Manganese	0.05
Silver	0.1
Sodium	50
Sulfate	250
Total dissolved solids	500
Zinc	5



### New Jersey Department of Environmental Protection

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