

# BROWN DEER WATER UTILITY

## TREATED WATER QUALITY 2006

LISTED below are contaminants DETECTED in Milwaukee's drinking water during 2006. All are below levels allowed by state and federal laws. A list of the hundreds of other compounds for which the water was tested but not found can be located at: <http://www.water.mpw.net>

Substance	Ideal Goals (mclg)	Highest Level Allowed (USEPA-MCL)	Median Value	Highest Level Detected	Sources of Contaminant
Aluminum	0.2 mg/L	NR	0.035 mg/L	0.07 mg/L	Water treatment additive; natural deposits
Barium	2 mg/L	2 mg/L	0.02 mg/L	0.02 mg/L	Natural Deposits.
Chromium	100 ug/L	100 ug/L	5 ug/L	10 ug/L	Natural Deposits.
Copper	1.3 mg/L	1.3 mg/L (AL)	.052mg/L	.246mg/L	Natural Deposits. Corrosion of household plumbing systems.
Lead	0 ug/L	15 ug/L (AL)	<1 ug/L	4ug/L	Natural Deposits. Corrosion of household plumbing systems.
Nickel	100 ug/L	100 ug/L	<1 ug/L	2 ug/L	Metal alloys, electroplating, batteries, chemical production.
Potassium	NR	NR	1.1 mg/L	1.5 mg/L	Natural Deposits.
Sodium	NR	NR	7.3 mg/L	12.5 mg/L	Natural Deposits.
Bromate	10 ug/L	10 ug/L (RRA)	4 ug/L(RRA)	NR	Disinfection by-product .
Fluoride		4 mg/L	.61 mg/L	1.7 mg/L	Water treatment additive, natural deposits
Total Organic Carbon	TT	TT	1.4 mg/L	2.2 mg/L	Naturally Present
Chlorine, Total		4 mg/L	1.0 mg/L	2.0 mg/L	Residual of water disinfection.
Haloacetic Acids , Total	0 ug/L	60 ug/L	2.4 ug/L	6.5 ug/L	Byproduct of drinking water disinfection.
Total Organic Halides	NR	NR	28 ug/L	54 ug/L	Byproduct of drinking water disinfection.
Trihalomethanes, Total	0 ug/L	80 ug/L	7 ug/L	14.4 ug/L	Byproduct of drinking water disinfection.
Sulfate	500 mg/L	NR	30 mg/L	33mg/L	Naturally Present
Turbidity		TT< 0.3 NTU95% of the time	0.05 NTU 95% of time	0.14 NTU one-day max	Natural Sediment.
Uranium, Total		20 pCi/L	0.54 pCi/L	0.57 pCi/L	Natural Deposits.
Radium – Combined	0 pCi/L	5 pCi/L	0.7 pCi/L	0.7 pCi/L	Natural Deposits.
Total Coliform Bacteria	0	<5 % of samples/month	<1%	<1%	Naturally present in the environment.

### DEFINITIONS

**AL** – Action Level – The concentration of a contaminant that triggers treatment or other requirement that a water system must follow. Action levels are reported at the 90<sup>th</sup> percentile for homes at greatest risk.

**Haloacetic Acids** – mono-, di-, and tri-chloroacetic acid; mono- and di-bromoacetic acid; and bromochloroacetic acids

**MCL** – MAXIMUM CONTAMINANT LEVEL - The highest level of a contaminant that is allowed in drinking water.

**MCLG** - MAXIMUM CONTAMINANT LEVEL GOAL – The level of a contaminant in drinking water below which there is no known or expected risk to health.

**Mg/L** Milligram per Liter equal to one part per million (ppm)    **ug/L** microgram per liter, equal to one part per billion (ppb)

**NR** – not regulated    **NTU** – Nephelometric Turbidity Units – unit to measure turbidity.

**pCi/L** – Picocuries per liter is a measure of radioactivity in water. A picocurie is 10<sup>-12</sup> curies and is the quantity of radioactive material producing 2.22 nuclear transformations per minute.

**TT** – Treatment Technique – A required process intended to reduce the level of a contaminant in drinking water.

**RAA** = Running Annual Average – the average of (4) quarterly samples collected in one year.

**Trihalomethanes** – chloroform, Bromochloromethane, dibromochloromethane and bromoform.

**<** - means “less than”

