BROWN DEER WATER UTILITY

TREATED WATER QUALITY 2009

LISTED below are contaminants DETECTED in Milwaukee's drinking water during 2009. *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	0.045 mg/L	0.309 mg/L	Water treatment additive; natural deposits
Barium	2 mg/L	2 mg/L	0.021 mg/L	0.021 mg/L	Natural Deposits.
Chromium	100 µg/L	100 µg/L	<2 µg/L	2 µg/L	Natural Deposits.
Copper (2008)	1.3 mg/L	1.3 mg/L (AL)	.065mg/L	.317 mg/L	Natural Deposits. Corrosion of household plumbing systems.
Lead	0 µg/L	15 µg/L (AL)	<2 ug/L	2ug/L	Natural Deposits. Corrosion of household plumbing systems.
Potassium	NR	NR	1.4 mg/L	1.6 mg/L	Natural Deposits.
Sodium	NR	NR	9.3 mg/L	17.3 mg/L	Natural Deposits.
Bromate	10 µg/L	10 µg/L (RRA)	4 µg/L(RRA)	NR	Disinfection by-product.
Fluoride	4 mg/L	4 mg/L	.77 mg/L	2.06 mg/L	Water treatment additive, natural deposits.
Total Organic Carbon	TT	TT	1.3 mg/L	2.6 mg/L	Naturally Present
Chlorine, Total	4 mg/L	4 mg/L	.8 mg/L	1.45 mg/L	Residual of water disinfection.
Haloacetic Acids , Total	NA	60 µg/L	1.2 µg/L	9.4 µg/L	Byproduct of drinking water disinfection.
Trihalomethanes, Total	0 µg/L	80 µg/L	3.6 µg/L	10.4 µg/L	Byproduct of drinking water disinfection.
Sulfate	500 mg/L	NR	28 mg/L	32 mg/L	Naturally Present
Turbidity	NA	TT< 0.3 NTU 95% of the time	0.04 NTU 95% of time	0.08 NTU one-day max	Natural Sediment.
Uranium, Total	0	20 pCi/L	0.14 pCi/L	0.18 pCi/L	Natural Deposits.
Radium – Combined (2008)	0 pCi/L	5 pCi/L	0.99 pCi/L	1.1 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 90th percentile for homes at greatest risk.
Haloacetic Acids – mono-, di-, and tri-chloroacetic acid: mono- and di-bromoacetic acid: and bromochloroacetic acids
Median – The middle value of the entire data set for the parameter (range from high to low).
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^{-12} 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.