

# Kenosha Water Utility

## 2013 Drinking Water Quality Report

(CCR Data for Wholesale Customers)

Substance (Units)	MCL or {MRDL}	MCLG or {MRDLG}	Level Found	Range/Comments	Year Tested	Violation	Typical Source of Contaminant
<b>Microbiological Results</b>							
Total Coliform Bacteria (positive)	< 5% of monthly samples	0	0	0	2013	No	Naturally present in the environment; E.coli is present in human and animal waste
<b>Disinfection Results</b>							
Total Chlorine (ppm)	{ 4 }	{ 4 }	1.33	1.00 - 1.33	2013	No	Drinking water disinfectant
Haloacetic Acids (ppb)	60	60	13	7 - 22	2013	No	By-product of drinking water Chlorination
Total Trihalomethanes (ppb)	80	0	32.3 (avg)	12.2 - 34.6	2013	No	By-product of drinking water Chlorination
Bromodichloromethane (ppb)	80	0	8.4 (avg)	5.1 - 11	2013	No	By-product of drinking water Chlorination
Bromoform (ppb)	80	0	0.47	ND-0.47	2013	No	By-product of drinking water Chlorination
Chloroform (ppb)	80	0	12.4 (avg)	3.9 - 20	2013	No	By-product of drinking water Chlorination
Dibromochloromethane (ppb)	80	0	3.7 (avg)	2.2 - 6.1	2013	No	By-product of drinking water Chlorination
<b>Regulated Inorganic Results</b>							
Antimony (ppb)	6	6	0.18	0.18	2011	No	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic (ppb)	10	N/A	ND	ND	2011	No	Erosion of natural deposits
Barium (ppm)	2	2	0.021	0.021	2011	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Cadmium (ppb)	5	5	ND	ND	2011	No	Erosion of natural deposits
Chromium (ppb)	100	100	1.22	0.247 - 1.22	2013	No	Erosion of natural deposits
Copper (ppm)	1.3 (AL)	1.3	0.13 (90th percentile)	0 of 31 results > AL	2011	No	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Cyanide (ppb)	200	200	7	7	2011	No	Discharge from Steel/Metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	4	4	1.41	0.57 - 1.41	2013	No	Erosion of natural deposits; Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Lead (ppb)	15 (AL)	0	6.3 (90th percentile)	1 of 31 results > AL	2011	No	Corrosion of household plumbing systems; Erosion of natural deposits
Nickel (ppb)	100	N/A	0.98	0.98	2011	No	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products
Nitrate as N (ppm)	10	10	0.41	0.41	2013	No	Runoff from fertilizer use; Leaching from septic tanks; Erosion of natural deposits
Sodium (ppm)	N/A	N/A	8.5	8.5	2013	N/A	N/A
<b>Radioactive Result</b>							
Radium (226+228) (pCi/L)	5	0	0.8	0.8	2009	No	Erosion of natural deposits

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<b>Unregulated Contaminant Monitoring Program</b>							
Chromium 6 (ppb)	N/A	N/A	0.247	0.190 - 0.247	2013	N/A	Naturally occurring element; used in making steel and other alloys.
Chromium Total (ppb)	N/A	N/A	1.220	0.241 - 1.220	2013	N/A	Naturally occurring element; used in making steel and other alloys.
Molybdenum (ppb)	N/A	N/A	1.1873	ND - 1.1873	2013	N/A	Naturally occurring element found in ores and present in plants, animals and bacteria
Strontium (ppb)	N/A	N/A	127.365	117.625 - 127.365	2013	N/A	Naturally occurring element. Has been used in the faceplate glass of cathode-ray tube televisions to block x-ray emissions.
Vanadium (ppb)	N/A	N/A	0.318	0.2407 - 0.318	2013	N/A	Naturally occurring elemental metal
Temperature (°F)	N/A	N/A	70	34 - 70	2013	N/A	N/A
<b>Other Monitored Parameters</b>							
Sulfate (ppm)	N/A	N/A	27	27	2011	N/A	N/A
Ortho-phosphate (ppm)	N/A	N/A	0.23	0.13 - 0.23	2013	N/A	Water additive to reduce corrosion of household plumbing systems
Total Organic Carbon (ppm)	TT	N/A	1.3 (avg)	0.8 - 1.8	2013	N/A	N/A
Turbidity (NTU)	< 0.30	N/A	0.058	0.024 - 0.058	2013	No	Erosion of natural deposits
Alkalinity (ppm)	N/A	N/A	107	99 - 107	2013	N/A	N/A
Conductivity (µS/cm)	N/A	N/A	307	250 - 307	2013	N/A	N/A
Total Hardness (ppm)	N/A	N/A	144	126 - 144	2013	N/A	N/A
pH (pH Units)	N/A	N/A	7.89	7.45 - 7.89	2013	N/A	N/A

**AL: Action Level** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Action levels are reported at the 90th percentile from homes at greatest risk.

**MCL: Maximum Contaminant Level** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**MCLG: Maximum Contaminant Level Goal** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**{MRDL}: Maximum Residual Disinfectant Level** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**{MRDLG}: Maximum Residual Disinfectant Level Goal** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

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

**DEFINITIONS**

**Abbreviations:**  
 avg: average  
 N/A: Not Applicable  
 ND: Not Detected  
 pCi/L: picocuries per liter  
 NTU: Nephelometric Turbidity Units  
 ppb: parts per billion (µg/L)  
 ppm: parts per million (mg/L)  
 µS/cm: microsiemens per centimeter

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