

O. Fred Nelson Water Production Plant, Kenosha Water Utility
Results of Regulated and Unregulated Characteristics of Kenosha Water Quality for 2011
(All results meet or surpass all state and federal drinking water standards)

Additional information on water quality or unregulated contaminants may be obtained by contacting the Kenosha Water Utility at 262-653-4330

Parameter	Units	Highest Level Detected	Range/Comments	MCL or {MRDL}	MCLG or {MRDLG}	Possible Sources in Water
Microbiological Contaminants						
Total Coliform Bacteria	% positive samples	0	0	Presence of coliform bacteria in less than 5% of monthly samples	0	Naturally present in the environment; e.coli only present in human and animal fecal waste
Disinfection Byproducts						
Haloacetic acids	ppb	15.1 (avg)	8.3 - 27	60	60	By-product of disinfection process
Total Trihalomethanes	ppb	33.0 (avg)	22.2 - 42.1	80	0	By-product of disinfection process
Antimony	ppb	0.18	0.18	6	6	Fire retardants, electronics
Arsenic	ppb	ND	ND	10	N/A	Erosion of natural deposits
Barium	ppm	0.021	0.021	2	2	Erosion of natural deposits
Cadmium	ppb	ND	ND	5	5	Erosion of natural deposits
Chromium	ppb	ND	ND	100	100	Erosion of natural deposits
Copper	ppm	0.13 (AL*)	0 of 31 sites > AL	1.3 (AL)	1.3	Corrosion of household plumbing materials
Fluoride	ppm	0.97	0.97	4	4	Additive to reduce tooth decay
Lead	ppb	6.3 (AL*)	1 of 31 sites > AL	15 (AL)	0	Corrosion of household plumbing materials
Nickel	ppb	0.98	0.98	100		Naturally present in the environment
Nitrate as N	ppm	0.29	0.29	10	10	Runoff from fertilizers
Sodium	ppm	7.50	7.50	N/A	N/A	
Radioactive Contaminants						
Radium (226+228) **	pCi/l	0.8	0.8	5	0	Erosion of natural deposits
Unregulated Contaminants						
Bromodichloromethane	ppb	10.25 (avg)	8.0 - 12.0	N/A	N/A	By-product of disinfection process
Bromoform	ppb	0.15 (avg)	ND - 0.60	N/A	N/A	By-product of disinfection process
Chloroform	ppb	17.75 (avg)	10.0 - 26.0	N/A	N/A	By-product of disinfection process
Dibromochloromethane	ppb	4.90 (avg)	4.1 - 6.5	N/A	N/A	By-product of disinfection process
Sulfate	ppm	27.00	27.00	N/A	N/A	
Total Organic Carbon	ppm	1.5 (avg)	1.1 - 1.8	TT		Naturally present in the environment
Total Chlorine	ppm	1.50	1.08 - 1.50	{4}	{4}	Water additive to control microbials
Total Hardness	ppm	146	130 - 146	500		
Turbidity	NTU	0.049	0.022 - 0.049	< 0.30		Soil runoff
Alkalinity	ppm	116	94 - 116			
Conductivity	µS/cm	351	263 - 351			µS/cm - microsiemens/centimeter
Ortho-phosphate	ppm	0.23	0.13 - 0.23			N.D. - not detected
pH	pH units	7.76	7.26 - 7.76			** Last tested in March 2009
Temperature	Fahrenheit	71	33 - 71			
Treatment Technique (TT)						
Action Level (AL)			A required process intended to reduce the level of a contaminant in drinking water			
Maximum Contaminant Level (MCL)			The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. * Action levels are reported at the 90th percentile from homes at greatest risk.			
Maximum Contaminant Level Goal (MCLG)			The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using best available treatment technology.			
Maximum Residual Disinfectant Level (MRDL)			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.			
Maximum Residual Disinfectant Goal (MRDLG)			The level of disinfectant added for water treatment that may not be exceeded at the consumers tap			
			The level of a disinfectant added for water treatment, below which there is no known or expected risk to health.			