



## 2016 Consumer Confidence Report Data KENOSHA WATER UTILITY, PWS ID: 23000461

**Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.**

When you drink Kenosha tap water, you're drinking clean, high quality water. Kenosha's drinking water meets or exceeds *all* state and federal water quality standards. At the Kenosha Water Utility, we constantly work to improve our service and operating efficiency. The finished water turbidity (a measurement of cloudiness) is consistently well below the Environmental Protection Agency (EPA) standard of 0.3 NTU. The Kenosha Water Utility's state certified laboratory tests Kenosha's drinking water over 10,000 times per year. The drinking water quality information in this report covers the period of January 2016 to December 2016.

**Water System Information** - If you would like to know more about the information in this report, please contact Roger Field at (262) 653-4330.

**Opportunity for input on decisions affecting your water quality** - The Kenosha Water Utility Board of Water Commissioners meets on the second and last Monday of each month at 5:30 PM in Room 202 of the Municipal Building, 625 52nd St., Kenosha, Wisconsin. Meeting dates and times are subject to change. Please call the Kenosha Water Utility at (262) 653-4308 to confirm.

### Health Information

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA and the Center for Disease Control's guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA's safe drinking water hotline (800-426-4791).

### Sources of Water

The Kenosha Water Utility has three active sources of water, all of which are in Lake Michigan. There are two intakes at a depth of about 35 feet; the third intake is at a depth of five feet. To obtain a summary of the source water assessment please contact Roger Field at (262) 653-4330.

### Educational Information

The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

### Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

## Definitions

### Term Definition

AL	<b>Action Level:</b> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
MCL	<b>Maximum Contaminant Level:</b> 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	<b>Maximum Contaminant Level Goal:</b> 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.
N/A	<b>Not Applicable</b>
ND	<b>Not Detected</b>
NTU	<b>Nephelometric Turbidity Units</b>
pCi/l	<b>Picocuries per liter</b>
ppm	<b>parts per million</b> , or milligrams per liter (mg/l)
ppb	<b>parts per billion</b> , or micrograms per liter (µg/l)
TCR	<b>Total Coliform Rule</b>
TT	<b>Treatment Technique:</b> A required process intended to reduce the level of a contaminant in drinking water.

## Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected within the last 5 years, it will appear in the tables below along with the sample date.

### Microbiological Contaminants

Contaminant	MCL	MCLG	Count of Positives	Violation	Typical Source of Contaminant
COLIFORM (TCR)	Presence of coliform bacteria in ≥ 5% of monthly samples	0	0%	No	Naturally present in the environment

### Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date	Violation	Typical Source of Contaminant
HAA5 (ppb)	17	60	60	15	10-21	2016	No	By-product of drinking water chlorination
TTHM (ppb)	17	80	0	26.7	11.1-39.9	2016	No	By-product of drinking water chlorination
HAA5 (ppb)	29	60	60	14	11-20	2016	No	By-product of drinking water chlorination
TTHM (ppb)	29	80	0	40.5	20.0-52.2	2016	No	By-product of drinking water chlorination
HAA5 (ppb)	5	60	60	14	11-20	2016	No	By-product of drinking water chlorination
TTHM (ppb)	5	80	0	27.3	15.6-44.0	2016	No	By-product of drinking water chlorination
HAA5 (ppb)	7	60	60	14	11-18	2016	No	By-product of drinking water chlorination
TTHM (ppb)	7	80	0	25.4	10.5-36.7	2016	No	By-product of drinking water chlorination

## Inorganic Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date	Violation	Typical Source of Contaminant
ARSENIC (ppb)	10	N/A	1	1	2014	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
BARIUM (ppm)	2	2	0.022	0.022	2014	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
CYANIDE (ppb)	200	200	9	9	2014	No	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
FLUORIDE (ppm)	4	4	0.73	0.63-0.81	2016	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
NICKEL (ppb)	100		0.8600	0.8600	2014	No	Occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
NITRATE (NO <sub>3</sub> -N) (ppm)	10	10	1.00	1.00	2016	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
SODIUM (ppm)	N/A	N/A	12.00	12.00	2016	No	N/A

## Lead and Copper

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.1000	0 of 30 results were above the action level.	2014	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
LEAD (ppb)	AL=15	0	6.20	1 of 30 results were above the action level.	2014	No	Corrosion of household plumbing systems; erosion of natural deposits

## Radioactive Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date	Violation	Typical Source of Contaminant
RADIUM, (226 + 228) (pCi/l)	5	0	1.5	1.5	2014	No	Erosion of natural deposits

## Turbidity Monitoring

Turbidity is the amount of cloudiness in the water. Turbidity can be caused by silt, sand and mud, bacteria and other germs or chemical precipitates. It is important to measure the turbidity of water supplies because water treatment can be affected by turbidity. The level of turbidity may indicate the effectiveness of the treatment process.

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date	Violation	Typical Source of Contaminant
TURBIDITY (NTU)	0.30	N/A	0.030 (avg)	0.024-0.046	2016	No	Runoff from soil

## Unregulated Contaminants

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. The EPA required us to participate in this monitoring.

Contaminant (units)	Level Found	Range	Sample Date
SULFATE (ppm)	28.00	28.00	2014
CHROMIUM 6 (ppb)	0.247	0.190 - 0.247	2014
CHROMIUM Total (ppb)	1.220	0.241 - 1.220	2014
MOLYBDENUM (ppb)	1.1873	ND – 1.1873	2014
STRONTIUM (ppb)	127.365	117.625 – 127.365	2014
VANADIUM (ppb)	0.318	0.2407 – 0.318	2014

## Health Effects for Contaminants with MCL Violations/Action Level Exceedances

Contaminant	Health Effects
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<b>LEAD</b>	Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
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## Additional Health Information

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Kenosha Water Utility is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty seconds to two minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

## Information on Monitoring for *Cryptosporidium* and Radon

Our water system did not monitor our water for radon during 2016. We were not required by state or federal drinking water regulations to do so.

Our water system began a two-year *Cryptosporidium* monitoring program in 2015, in accordance with the Long Term 2 Enhanced Surface Water Treatment Rule requirements. Three samples were tested in 2015 and twelve samples were tested in 2016. No oocysts\* were found in any of the samples.

\***Oocyst:** A hardy, thick-walled stage of the life cycle of certain parasites. This is the stage that serves to transfer them to new hosts.