

2014 Consumer Confidence Report Data BRISTOL WATERWORKS VILLAGE OF, PWS ID: 23000505

Water System Information

If you would like to know more about the information contained in this report, please contact Randy R Kerkman at (262) 857-2368.

Opportunity for input on decisions affecting your water quality

Village of Bristol Board meets on the 2nd and 4th Mondays of each month at the Village Hall located at 19801 83rd street at 7:00 pm.

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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Source(s) of Water

Source ID	Source	Depth (in feet)	Status
1	Groundwater	1155	Active
2	Groundwater	55	Active

Source ID	Source	Depth (in feet)	Status
3	Groundwater	1505	Active

Purchased Water

PWS ID	PWS Name
23000461	KENOSHA WATER UTILITY

To obtain a summary of the source water assessment please contact, Randy R Kerkman at (262) 857-2368.

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, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

Definitions

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers

Term	Definition
	treatment or other requirements which a water system must follow.
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.
MFL	million fibers per liter
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 contaminants.
mrem/year	millirems per year (a measure of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
pCi/l	picocuries per liter (a measure of radioactivity)
ppm	parts per million, or milligrams per liter (mg/l)
ppb	parts per billion, or micrograms per liter (ug/l)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter
TCR	Total Coliform Rule
TT	Treatment Technique: 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 last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2014)	Violation	Typical Source of Contaminant
HAA5 (ppb)	D-4	60	60	3	3		No	By-product of

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2014)	Violation	Typical Source of Contaminant
								drinking water chlorination
TTHM (ppb)	D-4	80	0	10.5	10.5		No	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2014)	Violation	Typical Source of Contaminant
ARSENIC (ppb)		10	n/a	2	0 - 2		No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
BARIUM (ppm)		2	2	0.076	0.032 - 0.076		No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE (ppm)		4	4	1.3	0.5 - 1.3		No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NICKEL (ppb)		100		7.0000	0.8600 - 7.0000		No	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
SODIUM (ppm)		n/a	n/a	21.00	14.00 - 21.00		No	n/a

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2014)	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.4900	0 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD (ppb)	AL=15	0	2.10	0 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits

Radioactive Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2014)	Violation	Typical Source of Contaminant
GROSS ALPHA, EXCL. R & U (pCi/l)		15	0	7.8	0.0 - 7.8		No	Erosion of natural deposits
RADIUM, (226 + 228) (pCi/l)		5	0	4.0	1.4 - 4.0		No	Erosion of natural deposits
GROSS ALPHA, INCL. R & U (n/a)		n/a	n/a	7.8	0.0 - 7.8		No	Erosion of natural deposits

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. Bristol Waterworks Village Of 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 30 seconds to 2 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.

Purchased Water

Our water system purchases water from KENOSHA WATER UTILITY. In addition to the detected contaminants listed above, these are the results from KENOSHA WATER UTILITY.

Information on Monitoring for Cryptosporidium and Radon

Our water system did not monitor our water for cryptosporidium or radon during 2014. We are not required by State or Federal drinking water regulations to do so.

Kenosha Water Utility

2014 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
Microbiological Results							
Total Coliform Bacteria (% positive)	< 5% of monthly samples	0	1%	1%	2014	No	Naturally present in the environment; E.coli is present in human and animal waste
Disinfection Results							
Total Chlorine (ppm)	{ 4 }	{ 4 }	1.26	0.95 - 1.26	2014	No	Drinking water disinfectant
Haloacetic Acids (ppb)	60	60	12	7 - 18	2014	No	By-product of drinking water Chlorination
Total Trihalomethanes (ppb)	80	0	25 (avg)	12.2 - 45.7	2014	No	By-product of drinking water Chlorination
Bromodichloromethane (ppb)	80	0	8.2 (avg)	4.9 - 15	2014	No	By-product of drinking water Chlorination
Bromoform (ppb)	80	0	0.3	ND - 0.60	2014	No	By-product of drinking water Chlorination
Chloroform (ppb)	80	0	10.8 (avg)	3.6 - 23	2014	No	By-product of drinking water Chlorination
Dibromochloromethane (ppb)	80	0	4.5 (avg)	3.1 - 7.1	2014	No	By-product of drinking water Chlorination
Regulated Inorganic Results							
Antimony (ppb)	6	6	ND	ND	2014	No	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic (ppb)	10	N/A	0.65	0.65	2014	No	Erosion of natural deposits
Barium (ppm)	2	2	0.022	0.022	2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Cadmium (ppb)	5	5	ND	ND	2014	No	Erosion of natural deposits
Chromium (ppb)	100	100	ND	ND	2014	No	Erosion of natural deposits
Copper (ppm)	1.3 (AL)	1.3	0.1 (90th percentile)	0.002 - 0.260	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Cyanide (ppb)	200	200	9	9	2014	No	Discharge from Steel/Metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	4	4	0.69	0.69	2014	No	Erosion of natural deposits; Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Lead (ppb)	15 (AL)	0	6.20 (90th percentile)	1.5 - 100	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits
Nickel (ppb)	100	N/A	0.86	0.86	2014	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	0.54	0.54	2014	No	Runoff from fertilizer use; Leaching from septic tanks; Erosion of natural deposits
Sodium (ppm)	N/A	N/A	15	15	2014	N/A	N/A
Radioactive Result							
Radium (226+228) (pCi/L)	5	0	1.5	1.5	2014	No	Erosion of natural deposits

Kenosha Water Utility

2014 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
Unregulated Contaminant Monitoring Program							
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	62	33-62	2014	N/A	N/A
Other Monitored Parameters							
Sulfate (ppm)	N/A	N/A	28	28	2014	N/A	N/A
Ortho-phosphate (ppm)	N/A	N/A	0.165 (avg)	0.12 - 0.21	2014	N/A	Water additive to reduce corrosion of household plumbing systems
Total Organic Carbon (ppm)	T T	N/A	1.6 (avg)	0.99 - 2.0	2014	N/A	N/A
Turbidity (NTU)	< 0.30	N/A	0.065	0.023 - 0.065	2014	No	Erosion of natural deposits
Alkalinity (ppm)	N/A	N/A	107 (avg.)	101 - 123	2014	N/A	N/A
Conductivity (µS/cm)	N/A	N/A	302 (avg)	220 - 367	2014	N/A	N/A
Total Hardness (ppm)	N/A	N/A	139 (avg.)	134 - 154	2014	N/A	N/A
pH (pH Units)	N/A	N/A	7.69 (avg.)	7.44 - 7.98	2014	N/A	N/A

DEFINITIONS

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.

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