

results for the calendar year

2019 Annual Drinking Water Quality Report

This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

We are committed to ensuring the quality of your water. Our water is surface water that is pumped from Lake Michigan. We purchase our water from the City of Kenosha and are pleased to report that our water is safe and meets federal and

state requirements. If you would like to know more about the information contained in this report, please contact the Pleasant Prairie Public Works Department at 262.925.6700 between the hours of 7:30 a.m. and 4:30 p.m., Monday through Friday.

We want our valued customers to be informed about their water utility. If you want to learn more or offer any input on decisions affecting your water quality, please attend any of our regularly scheduled Village Board meetings. They are held on the first and third Mondays of every month.

More information is available at ***PleasantPrairieWi.gov***.



“We are committed to ensuring the quality of your water.”



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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 the 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 at (800) 426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as those: with cancer undergoing

chemotherapy, who have undergone organ transplants, individuals with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of 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 at (800) 426-4791.

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 can 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. FDA regulations establish limits for contaminants in bottled water, which provide the same protection for public health.

SOURCE(S) OF WATER

SOURCE ID	SOURCE	DEPTH (in feet)	STATUS
81	Purchased Surface Water		Active

A summary of the source water assessment for PLEASANT PRAIRIE WATER UTILITY is available at:

PleasantPrairieWi.gov > [Departments](#) > [Sewer and Water Utilities](#) > [Source Water Assessment PDF](#)

DEFINITION OF TERMS

In this table, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

TERM	DEFINITION	TERM	DEFINITION
Level 1 Assessment	A study of the water system to identify potential problems and determine, if possible, why total coliform bacteria have been found in our water system.	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.
Level 2 Assessment	A very detailed study of the water system to identify potential problems and determine, if possible, why an E. coli MCL violations has occurred or why total coliform bacteria have been in our water system, or both, on multiple occasions.	MRDLG	Maximum Residual Disinfectant Level Goal: the level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
AL	Action Level: the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.	mrem/year	Millirems per Year: a measure of radiation absorbed by the body.
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.	n/a	Not Applicable.
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.	ND	Not Detected.
MFL	Million Fibers per Liter.	NTU	Nephelometric Turbidity Units.
		pCi/l	Picocuries per Liter: a measure of radioactivity.
		ppm	Parts per Million: or milligrams per liter.
		ppb	Parts per Billion: or micrograms per liter.
		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.

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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 five years, it will appear in the following tables along with the sample date.

MICROBIOLOGICAL CONTAMINANTS

CONTAMINANT (units)	MCL	MCLG	COUNT OF POSITIVES	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Coliform* (TCR)	Presence of coliform bacteria in fewer than 5% of monthly samples	0	0	NO	Naturally present in the environment
Cryptosporidium*	TT	0	0	NO	Microbial parasite found in surface water
E. coli*	See page 4	0	0	NO	Human and animal fecal waste

DISINFECTION BY-PRODUCTS

CONTAMINANT (units)	MCL	MCLG	LEVEL FOUND	RANGE	SAMPLE DATE (if prior to 2019)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
HAA5* (ppb)	60	60	16 (avg)	13 to 24		NO	By-product of drinking water chlorination
TTHM* (ppb)	80	0	28.5 (avg)	15.1 to 41.1		NO	By-product of drinking water chlorination

INORGANIC CONTAMINANTS

CONTAMINANT (units)	MCL	MCLG	LEVEL FOUND	RANGE/ COMMENTS	SAMPLE DATE (if prior to 2019)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Antimony Total (ppb)	6	6	.21	n/a	2017	NO	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	10	0	0.66	n/a	2017	NO	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	2	2	0.021	n/a	2017	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cadmium (ppb)	5	5	ND	ND	2017	NO	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries/paints
Chromium (ppb)	100	100	ND	ND	2017	NO	Discharge from steel/pulp mills; erosion of natural deposits
Copper* (ppm)	1.3 (AL)	1.3	0.3440	0 of 34 results were above the action level	2017	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride (ppm)	4	4	0.73 (avg)	0.62 to 0.83		NO	Erosion of natural deposits; water additive that promotes strong teeth
Lead* (ppb)	15 (AL)	0	2.90	1 of 34 results were above the action level	2017	NO	Corrosion of household plumbing systems; erosion of natural deposits
Nickel (ppb)	100	n/a	0.9	n/a	2017	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	.63	n/a		NO	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	n/a	n/a	9.9	n/a		NO	n/a

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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. Pleasant Prairie's water system, constructed after the use of lead piping was discontinued, does not contain any lead piping. Pleasant Prairie's Water Utility is responsible for providing high quality drinking water, but it cannot control the materials used in a home's private plumbing components. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

If you live in a home constructed prior to the 1940s, lead piping may have been used in your private water lateral or plumbing system, and 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 (800) 426-4791 or at

www.epa.gov. 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.

In our continuing efforts to maintain a safe and dependable water supply, it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. Thank you for allowing us to continue providing your family with clean, quality water this year.

The Pleasant Prairie Water Utility makes it a priority to provide high quality water to the residents through daily operations and through quality assurance efforts. Protecting our natural water resources is something we can all take steps to do. These community efforts ensure we have clean drinking water and help maintain a quality way of life for now and for generations to come. Please call us at 262.925.6700 if you have any questions.

RADIOACTIVE CONTAMINANTS

CONTAMINANT (units)	MCL	MCLG	LEVEL FOUND	RANGE	SAMPLE DATE (if prior to 2019)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Radium (226+228) (pCi/l)	5	0	1.5	n/a	2014	NO	Erosion of natural deposits

UNREGULATED CONTAMINANTS

CONTAMINANT (units)	MCL	MCLG	LEVEL FOUND	RANGE	SAMPLE DATE (if prior to 2019)	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Bromodichloromethane (ppb)	80	0	8.8 (avg)	5.8 to 15		NO	By-product of drinking water chlorination
Bromoform (ppb)	80	0	.26	ND - .44		NO	By-product of drinking water chlorination
Chloroform (ppb)	80	0	14.6 (avg)	6.4 to 25		NO	By-product of drinking water chlorination
Dibromochloromethane (ppb)	80	0	3.7 (avg)	2.6 to 6.3		NO	By-product of drinking water chlorination
Sulfate (ppm)	n/a	n/a	26.3	23 to 29		n/a	n/a
Turbidity	Less than 0.30	n/a	0.027 (avg)	0.019 to 0.043		NO	Erosion of natural deposits

E. coli MCL: Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.

* Our water system purchases water from the Kenosha Water Utility. Those contaminants marked with an asterisk are tested for by the Pleasant Prairie Water Utility. Those that do not have an asterisk are tested for by the Kenosha Water Utility. A full list of test results for both utilities is available on the Department of Natural Resources website at <http://dnr.wi.gov/topic/DrinkingWater/QualityData.html>.

** Confirmed sampling error.



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