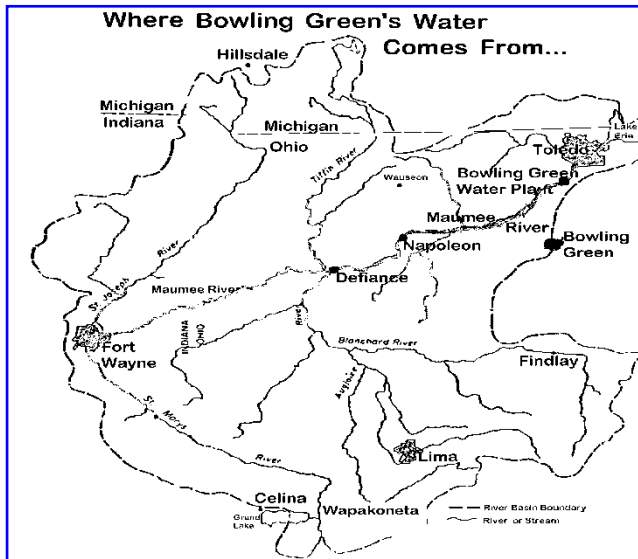


VILLAGE OF GRAND RAPIDS, OH
2023 Drinking Water Consumer Confidence Report

Introduction

The Village of Grand Rapids and the City of Bowling Green Water Treatment Plant has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included in this report is general health information, water quality test results, how to participate in decisions concerning your drinking water, and water system contacts. The City of Bowling Green will notify you immediately if there is any reason for concern about the water.

The Village of Grand Rapids has a current unconditional license to operate our Water System.



Source of Bowling Green's Water

The City of Bowling Green draws surface water from the Maumee River when the river supply is of high-quality water. The water is stored in our 170 million gallon above ground reservoir which provides water to the Water Treatment Plant and ultimately the consumer. The Water Treatment Plant utilizes two independent treatment systems; a multi-barrier Conventional Treatment process and an Integrated Membrane Treatment process. The water from the two treatment systems are blended for the finished water delivered to consumers. The Water Treatment Plant is operated and staffed 24 hours per day to ensure continuous monitoring of water quality and that we meet or exceed all Federal and State requirements.

Water Treatment Plant Improvements

Two significant improvements were recently completed at the Bowling Green Water Treatment Plant. The six Rapid Sand Filters were upgraded by completely rebuilding the filter bottoms and adding air to the backwash cycle. Also, two Microfiltration trains were added which will improve the plants ability to utilize the Reverse Osmosis Membranes.

Source Water Assessment

The City of Bowling Green public water system uses surface water drawn from an intake on the Maumee River. For the purposes of source water assessments, in Ohio, all surface waters are considered to be susceptible to contamination. By their nature, surface waters are readily accessible and can be contaminated by chemicals and pathogens which may rapidly arrive at the public drinking water intake with little warning or no time to prepare. The City of Bowling Green's drinking water source protection area contains potential contaminant sources such as runoff from agriculture, industrial storm water, gas stations, home construction, feed lots, waste water treatment discharges, airports, cemeteries, auto repair shops, landfills, above ground storage tanks, railroads, roadways, and oil and gas wells. Should you need to find your Source Water Assessment information contact Mike Fields at 419-823-1647 or 419-878-6986.

The City of Bowling Green's public water system treats the water to meet drinking water quality standards, but no single treatment technique can address all potential contaminants. The potential for water quality impacts can be decreased by implementing measures to protect the Maumee River.

Sources of Contaminants

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

Contaminants that may be present in source water include: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agriculture livestock operations and wildlife; (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses; (D) Organic chemicals contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; (E) 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, USEPA prescribes regulations which 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 must provide the same protection for public health. It's important to remember that the presence of certain contaminants does not necessarily indicate that the water poses a health risk.

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 1-800-426-4791.

Public Involvement

The Village of Grand Rapids encourages public interest and participation in our community's decisions affecting drinking water. Public participation and comments are welcome at Village Council meetings held regularly at 7:00 PM on the second and fourth Monday of each month at the Town Hall located at 24282 Front Street.

For more information on your drinking water contact Chad Beyer, Village Administrator at 419-832-5305 or by email at administrator@grandrapidssohio.com.

Special Precautions

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 system disorders, some elderly, and infants can be particularly at risk from infections. At risk individuals 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 microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791.

Regulated Contaminant Monitoring Detections

The following table shows the results of our water quality analysis. Data presented in this table is from the most recent monitoring in compliance with regulations. Every regulated contaminant detected in the water supplied to our customers is listed here. This table does not show the numerous other contaminants we tested for and did not detect in our water.

2023 Water Quality Data – City of Bowling Green, OH

Contaminant (Units)	Violation Y/N	Sample Year	MCL or MRDL	Detected Level	Range of Detection	MCLG or MRDLG	Possible Source of Contamination
Microbiological Contaminants							
Turbidity	No	2023	TT=0.3	0.14	.02-0.14	NA	Soil Runoff
Turbidity (% samples meet standards)	No	2023	TT	100%	100%	NA	Soil Runoff
Total Organic Carbon (TOC)	No	2023	TT	2.9	2.5-3.5	NA	Naturally present in environment
Inorganic Contaminants							
Barium (ppm)	No	2023	2	0.011	NA	2	Discharges from metal refineries & drilling wastes, erosion of natural deposits
Fluoride (ppm)	No	2023	4	1.02	0.91-1.15	4	Water additive that promotes strong teeth, erosion of natural deposits
Copper* (ppm)	No	2023	AL=1.3	0.03	NA	1.3	Corrosion of household plumbing systems
*0 Copper sites out of 30 sites sampled were above the AL of 1.3 ppm							
Lead** (ppm)	No	2023	AL=15	<4	NA	0	Corrosion of household plumbing systems
**0 Lead site out of 30 sites sampled were above the AL of 15 ppb.							
Nitrate (ppm) as Nitrogen	No	2023	10	4.8	0.4-4.8	10	Runoff from fertilizer use, sewage, erosion of natural deposits
Volatile Organic Contaminants							
Total Trihalomethanes TTHM (ppb)	No	2023	80	56.1	27-69.7	NA	By product of drinking water chlorination
Bromodichloromethane (ppb)	No	2023	NR	22.1	7.5-22.1	0	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Bromoform (ppb)	No	2023	NR	6.0	0.7-6.0	0	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Chloroform (ppb)	No	2023	NR	32.4	13.6-32.4	0	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Dibromochloromethane (ppb)	No	2023	NR	8.1	4.5-8.1	0	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Haloacetic Acids (HAA5) (ppb)	No	2023	60	22.6	5.9-22.6	NA	By product of drinking water chlorination
Dichloroacetic Acid (ppb)	No	2023	NR	15.7	3.1-15.7	NA	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Trichloroacetic Acid (ppb)	No	2023	NR	4.2	<0.5-4.5	NA	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Dibromoacetic Acid (ppb)	No	2023	NR	8.1	1.8-8.1	NA	EPA Regulations require monitoring of these contaminants – EPA is considering a set limit.
Residual Disinfectants							
Total Chlorine (ppm)	No	2023	MRDL 4.0	1.3	1.1-1.5	MRDLG 4.0	Water additive used to control microbes

Grand Rapids 2023 Water Quality Data							
Contaminant (Units)	Violation Y/N	Sample Year	MCL	Detected Level	Range of Detection	MCLG	Possible Source of Contamination
Inorganic Contaminants							
Copper* (ppm)	No	2023	AL=1.3	< .05	<.005 - .038	1.3	Corrosion of household plumbing systems
*0 samples exceeded the copper AL of 1.3 ppm							
Lead** (ppm)	No	2023	AL=15	< 5	<ND – 5.0	NA	Corrosion of household plumbing systems
**0 samples exceeded the lead AL of 15 ppb.							
Volatile Organic Contaminants							
Total Trihalomethanes TTHM (ppb)	No	2023	80	45.8	27.2 – 66.8	0	By product of drinking water chlorination
Haloacetic Acids (HAA5) (ppb)	No	2023	60	15.8	11.0 – 20.6	NA	By product of drinking water chlorination
Residual Disinfectants							
Total Chlorine (ppm)	No	2023	MRDL 4.0	1.3	0.9 - 1.5	MRDLG 4.0	Water additive used to control microbes

Turbidity is a measure of the cloudiness of the water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 0.3 NTU in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above, the Bowling Green WTP highest recorded turbidity result for 2023 was 0.12 NTU and lowest monthly percentage of samples meeting turbidity limits was 100%.

The value reported in the table under “Detected Level” for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one indicates that the water system is in compliance with TOC removal requirements. A value of less than one indicates a violation of TOC removal requirements.

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 City of Bowling Green 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 levels in your home’s 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Nitrates in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

Unregulated Contaminant Monitoring Rule Detections

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. In 2023 The City of Bowling Green Water Treatment Plant participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR 5). For a copy of the results please call Mike Fields at 419-823-1647 or 419-878-6986.

Table of Unregulated Contaminants			
Contaminants (Units)	Sample Year	Average Level Found	Range of Detections
PFBA (ppb)	2023	0.002	<0.005-0.0067
PFPeA (ppb)	2023	0.003	<0.003-0.0096
PFHxA (ppb)	2023	0.002	<0.003-0.0069
PFBS (ppb)	2023	0.001	<0.003-0.0033

Definitions of Terms in the CCR

Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) – 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.

Maximum Contaminant Level Goal (MCLG) – 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 Level (MRDL) – The highest residual disinfectant level allowed.

Maximum Residual Disinfectant Level Goal (MRDLG) – The level of residual disinfectant below which there is no known or expected risk to health.

Nephelometric Turbidity Unit (NTU) – A unit of measure to determine the concentration of particles in the water that affect clarity.

Not Regulated (NR) – Not regulated by the EPA

Not Available (NA) – Not available from the EPA

Parts per Million (ppm) – Units of measure for concentration of contaminant. A part per million corresponds to one second in approximately 11.5 days.

Parts per Billion (ppb) – Units of measure for concentration of contaminant. A part per billion corresponds to one second in approximately 31.7 years.

PFAS: Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals applied to many industrial, commercial and consumer products to make them waterproof, stain resistant, or nonstick. PFAS are also used in products like cosmetics, fast food packaging, and a type of firefighting foam called aqueous film forming foam (AFFF) which are used mainly on large spills of flammable liquids, such as jet fuel. PFAS are classified as contaminants of emerging concern, meaning that research into the harm they may cause to human health is still ongoing.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

“<” symbol – A symbol which means less than. A result of <5 means that the lowest level detected was 5 and the contaminant in that sample was not detected.