

Northwestern Water & Sewer District – Middleton Twp Drinking Water Consumer Confidence Report For 2020

Together, the Northwestern Water & Sewer District – Middleton Twp and the City of Bowling Green have prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

Source Water Information

The Northwestern Water & Sewer District – Middleton Twp purchases water from the City of Bowling Green.

The City of Bowling Green water treatment plant obtains its water from the Maumee River. The system's treatment capacity is approximately 6.0 million gallons per day, but current average production is 4.8 million gallons per day. Water is pumped from the Maumee River to an up-ground reservoir. The City of Bowling Green's water treatment system consists of coagulation, lime softening, flocculation, sedimentation, stabilization, granular activated carbon (GAC) filtration, filtration, and fluoride.

For the purposes of source water assessments, all surface waters are considered to be susceptible to contamination. By their nature surface waters are accessible and can be readily contaminated by chemicals and pathogens, with relatively short travel times from source to the intake. Based on the information compiled for this assessment, the City of Bowling Green drinking water source protection area is susceptible to runoff from agriculture, industrial storm water, gas stations, home construction, and feed lots; waste water treatment discharges, airports, cemeteries, auto repair shops, landfills, above ground storage tanks, railroads, roadways, and oil and gas wells.

It is important to note that this assessment is based on available data, and therefore may not reflect current conditions in all cases. Water quality, land uses and other activities that are potential sources of contamination may change with time. While the source water for the City of Bowling Green Public Water System is considered susceptible to contamination, historically, the City of Bowling Green Public Water System has effectively treated this source water to meet drinking water quality standards. More detailed information is provided in the City of Bowling Green Public Water System's Drinking Water Source Water Assessment report. Copies of the source water assessment report prepared for the City of Bowling Green are available by contacting the City of Bowling Green water treatment plant at 419-878-6986.

What are sources of contamination to drinking water?

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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural 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 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 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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 Federal Environmental Protection Agency’s Safe Drinking Water Hotline (1-800-426-4791).

Who needs to take 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 infection. 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 Safe Drinking Water Hotline (1-800-426-4791).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety.

- The Northwestern Water & Sewer District – Middleton Twp conducted sampling for bacteria and disinfection byproducts during 2020. Samples were collected for a total of 13 different contaminants most of which were not detected in the Northwestern Water & Sewer District – Middleton Twp water supply.
- The City of Bowling Green conducted sampling for bacteria; inorganic; synthetic organic and volatile organics during 2020. Samples were collected for a total of 79 different contaminants most of which were not detected in the City of Bowling Green water supply.

The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old.

Listed below is information on those contaminants that were found in the Northwestern Water & Sewer District – Middleton Twp and the City of Bowling Green drinking water.

TABLE OF DETECTED CONTAMINANTS: Northwestern Water & Sewer District - Middleton Twp.

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Disinfectant and Disinfectant By-Products							
Total Chlorine (ppm)	MRDLG = 4	MRDL = 4	1.15	0.69 - 1.51	No	2020	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	3.2	3.2 - 3.2	No	2020	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	NA	80	26.5	26.5 - 26.5	No	2020	By-product of drinking water disinfection

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Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Lead and Copper							
Contaminants (units)	Action Level (AL)	Individual Results over the AL	90% of test levels were less than	Violation	Year Sampled	Typical source of Contaminants	
Lead (ppb)	15 ppb	0	0 ppb	No	2020	Corrosion of household plumbing systems; erosion of natural deposits	
	0 out of 10 samples were found to have lead levels in excess of the lead action level of 15 ppb.						
Copper (ppm)	1.3 ppm	0	0.021 ppm	No	2020	Erosions of natural deposits; leaching from wood preservatives; Corrosions of household plumbing systems	
	0 out of 10 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.						

TABLE OF DETECTED CONTAMINANTS: City of Bowling Green

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Microbiological Contaminants							
Turbidity (NTU)	NA	TT	0.14	0.06 - 0.14	No	2020	Soil runoff.
Turbidity (% meeting standard)	NA	TT	100%	0 - 100%	No	2020	
Total Organic Carbon	NA	TT	3	2.6 - 3.4	No	2020	Naturally present in the environment.
Inorganic Contaminants							
Barium (ppm)	2	2	0.012	NA	No	2020	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	1.02	0.85 - 1.20	No	2020	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	10	3.9	ND - 3.9	No	2020	Run off from fertilizer use, Leaching from septic tanks, sewage; Erosion of natural deposits
Synthetic Organic Contaminants							
Atrazine (ppb)	3	3	0.082	ND - 0.082	No	2020	Runoff from herbicide used on row crops.

Turbidity

Turbidity is a measure of the cloudiness of 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 samples analyzed each month and shall not exceed 1 NTU at any time. As reported above, the City of Bowling Green’s highest recorded turbidity result for 2020 was 0.14 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100%.

Lead Educational 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. Northwestern Water & Sewer District – Middleton Twp 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Monitoring & Reporting Violations & Enforcement Actions

The City of Bowling Green is required to monitor your drinking water for turbidity on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During September 2020 the City of Bowling Green did not monitor or test or did not complete all monitoring or testing for turbidity, and therefore cannot be sure of the quality of your drinking water during that time. Specifically, the turbidity from membrane rack number 4 was not individually monitored on September 21, 22 and 23 of 2020. Upon being notified of this violation, the City of Bowling Green was directed to perform monitoring and reporting of turbidity, as required. We are taking appropriate steps to ensure that adequate monitoring is completed.

The City of Bowling Green is required to monitor your drinking water for corrosion control indicators. During the July-December 2020 monitoring period, Bowling Green City failed to report all water quality parameters results on time to Ohio EPA. Bowling Green City will take steps to ensure that monitoring results are reported on time in the future. Additional information may be obtained by contacting Mike Fields at 17549 West River Rd, Bowling Green, OH 43402 at 419-878-6986.

License to Operate (LTO) Status Information

In 2020 we had an unconditioned license to operate our water system.

How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged at regular meetings of the Board of Trustees which meets at 7:30 am every 2nd and 4th Thursday of each month. Meetings are held at the District's Operations facility located at 12560 Middleton Pike, Bowling Green, OH 43402. For more information on your drinking water contact Customer Service at 419-354-9090.

Additionally, the City of Bowling Green encourages public interest and participation in our community's decisions affecting drinking water. Board of Public Utilities meetings are held regularly at 5:00 p.m. on the second and fourth Mondays of each month at the City Administrative Services Building located at 304 North Church Street in the City Council Chambers. The public is welcome to attend these meetings to ask questions or express concerns as a lobby visitation if desired. Find out more about the City of Bowling Green on the internet at <http://www.bgohio.org/departments/utilities-department/water-treatment-plant>.

Definitions of some terms contained within this report.

- **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 Contaminant level (MCL):** The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- **Maximum Residual Disinfectant Level (MRDL):** 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.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of 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.
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
- **Parts per Million (ppm) or Milligrams per Liter (mg/L)** are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.
- **Parts per Billion (ppb) or Micrograms per Liter ($\mu\text{g/L}$)** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- **The "<" symbol:** A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.