



## Northwestern Water & Sewer District

### 2014 Water Quality Report

# Village of Bloomdale

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*The Northwestern Water and Sewer District has prepared the following report to provide information to you, the consumer, on the quality of our drinking water.*

*The District will notify you immediately if there is any reason for concern about the water.*

*We have a current, unconditional license to operate our water system.*

### Source of Bloomdale's Water

Our water source is ground water, drawn from five drilled wells. The water is taken from the primary bedrock aquifer in Bloom Township in southern Wood County.

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.**

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

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 (800-426-4791).**

*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 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.

**Nitrates** in drinking water at levels above 10 ppm are 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.

Some people who drink water containing **Trihalomethanes** in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

### [Lead in Drinking Water](#)

“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.

Although there is no detectable lead in our drinking water as it leaves the treatment plant, by the time it reaches your tap, lead levels may increase as a result of materials used in your home’s plumbing. Infants and young children are typically more vulnerable to lead in drinking water than the general population. Additional information is available from the

**Safe Drinking Water Hotline (1-800-426-4791 or at**

<http://epa.ohio.gov/ddagw/dwbasics.aspx>

*In order to ensure that tap water is safe to drink, EPA 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.*

### [Why is drinking water more vulnerable in KARST country?](#)

Karst contains an abundance of sinkholes on the surface that lead to ground water. When agricultural runoff, septic wastes, or other contaminants flow into sinkholes with rainwater, they eventually mix with the groundwater—the water that you drink.

Groundwater moves very quickly in areas where Karst occurs. One accident can contaminate multiple wells in a matter of days.

### Source Water Assessment

A source water assessment has been completed by the Ohio Environmental Protection Agency for our source of water. That assessment is available by calling The District at 877-354-9090.

The aquifer that supplies drinking water to the Village of Bloomdale is known as a Karst aquifer and has a high susceptibility to contamination, due to the sensitive nature of the aquifer in which the drinking water well is located and the existing potential contaminant sources identified. This does not mean that the wellfield will become contaminated, only that conditions are such that the ground water could be impacted by potential contaminant sources. Future contamination may be avoided by implementing protective measures. More information is available by calling The District at 877-354-9090.

Sources of contamination could be over application of fertilizer and pesticides; pouring leftover oil and other chemicals down a drain or on the ground; unused wells, hire someone to properly abandon old wells. Help protect your source of water. Less than one gallon of gasoline can pollute one million gallons of ground water.

### Public Participation

The Northwestern Water and Sewer District encourages public interest and participation in our decisions affecting drinking water. The Board of Trustees' meetings are held regularly at 7:30 am every 1st and 3rd Thursday of each month, at the District's Operations Facility located at 12560 Middleton Pike, Bowling Green. The public is welcome to attend these meetings and can ask questions or address their concerns if desired. Find out more about the District on the Internet at <http://www.nwwsd.org>.



#### **ADMINISTRATION, CUSTOMER SERVICE AND OPERATIONS:**

**NORTHWESTERN WATER & SEWER DISTRICT  
12560 MIDDLETON PIKE, P.O. BOX 348  
BOWLING GREEN, OH 43402  
419.354.9090 OR 1.877.354.9090  
E-MAIL: [district@nwwsd.org](mailto:district@nwwsd.org)**

The following table shows the results of our water-quality analysis. Every regulated contaminant that we detected in the water, even in the most minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the amount detected, the usual source of such contaminants, and a key to the units of measurement. This table does not show the numerous other contaminants we tested for, and did not detect in our water.

2014 Water Quality Data							
NORTHWESTERN WATER & SEWER DISTRICT DATA							
BLOOMDALE VILLAGE							
<b>Lead and Copper</b>							
Contaminant (Units)	Collection Date	90th Percentile	Action Level	# of Samples Over AL	MCLG	Violation	Likely Source of Contamination
Copper (ppm)	2012	0.242	1.3	0 sites over action level	1.3	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead (ppb)	2012	0	15	0 sites over action level	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.
<b>Contaminants</b>							
Contaminant (Units)	Collection Date	Highest Level Detected	MCLG	MCL	Range of Levels Detected	Violation	Likely Source of Contamination
Bromodichloromethane (ppb)	7/1/2014	3.0	NA	NR	NA	No	EPA regulations require us to monitor for these contaminants while the EPA considers setting limits on them.
Bromoform (ppb)	7/1/2014	11.0	NA	NR	NA	No	
Chloroform (ppb)	7/1/2014	0.7	NA	NR	NA	No	
Dibromochloromethane (ppb)	7/1/2014	7.5	NA	NR	NA	No	
Nitrate (ppm)	7/1/2014	ND	10	10	ND	No	Runoff from fertilizer use; sewage; erosion of natural deposits
<b>Disinfectants and Disinfection By-Products</b>							
Contaminant (Units)	Violation Y/N	Sample Year	MCL	Highest Level Detected	Range of Levels Detected	MCLG	Likely Source of Contamination
Total Trihalomethanes - TTHM (ppb)	No	2014	80	53.2	41.4 - 53.2	No goal for the total	By-product of drinking water Disinfection.
Haloacetic Acids (HAA5) (ppb)	No	2014	60	6.7	5.8 - 6.7	No goal for the total	
Total Chlorine (ppm)	No	2014	MRDL 4.0	1.85	0.57 - 1.85	MRDLG 4.0	Water additive used to control microbes
Data presented in this table is from the most recent monitoring done in compliance with regulations.							
<b>Key To Table</b>							
AL=Action Level				ppm = parts per million, or milligrams per liter			
MCL= Maximum Contaminant Level				ppb = parts per billion, or micrograms per liter			
MCLG= Maximum Contaminant Level Goal				TT = Treatment Technique			
MRDL=Maximum Residual Disinfectant Level				NTU = Nephelometric Turbidity Units			
MRDLG=Maximum Residual Disinfectant Level Goal				NR = Not regulated			
< = A symbol that means less than.				NA = Not Available			

## Definitions

**Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Action Level Goal (ALG):** The level of contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

**Maximum Contaminant Level:** The “Maximum Allowed” (MCL) is 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:** The “Goal” (MCLG) is 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 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.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

**NTU:** A unit of measure to determine the concentration of particles in the water that affect clarity.

**Parts per Million (ppm):** milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

**Parts per Billion (ppb):** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

**Treatment Technique (TT):** A treatment technique is 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 that could be detected was 5 and that the contaminant in that sample was not detected.

## IDSE

Under the Stage 2 Disinfectants/Disinfection By-products Rule (D/DBPR), our public water system was required by the US EPA to conduct an evaluation of our distribution system. This is known as an Initial Distribution System Evaluation (IDSE), and is intended to identify locations in our distribution system with elevated disinfection by-product concentrations. The locations selected for the IDSE may be used for compliance monitoring under the State 2 DBPR, beginning in 2012. Disinfection by-products are the result of providing continuous disinfection of your drinking water and form when disinfectants combine with organic matter naturally occurring in the source water. Disinfection by-products are grouped into two categories, Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). The US EPA sets the standards for controlling the levels of disinfectants and disinfectant by-products in drinking water, including both TTHM and HAA5.