Northwestern Water & Sewer District – Fostoria North Drinking Water Consumer Confidence Report For 2017

In 2017 we had an unconditioned license to operate our water system. Together, the City of Fostoria and the Northwestern Water & Sewer District – Fostoria North 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 City of Fostoria water treatment system obtains its water from the East Branch of the Portage River. The system also has three groundwater wells that currently serve as the back-up source for the City. Plant design capacity is 6.08 million gallons per day, but current average production is about 2.2 million gallons per day.

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 easily contaminated by chemicals and pathogens. Also, compared to ground water, they tend to move swiftly, so an upstream spill may rapidly arrive at the public drinking water intake with little warning or time to prepare.

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 Fostoria is considered susceptible to contamination, historically, the Fostoria Public Water System has effectively treated this source water to meet drinking water quality standards.

The source water assessment for the City of Fostoria indicates that the surface water source is susceptible to potential future contamination. Based on the information compiled for this assessment, the City of Fostoria's protection area is susceptible to contamination from agricultural runoff, feed lot runoff, gas line rupture, unsewered areas (including failed septic systems), composting facility runoff and waste water treatment (package plant) discharges. In addition, the source water is susceptible to contamination through motor vehicle accidents or spills at sites where the corridor zone is crossed by roads or underground gas lines. The susceptibility of the ground water to contamination appears to be moderate based on the assumption that the wells are set in the limestone aquifer and are overlain by glacial till. However, due to the proximity of several industrial sources and a major railway within the inner management zone, the susceptibility could be considered moderately high.

The source water assessment report prepared for the City of Fostoria can be accessed at Ohio EPA's website. Utilizing the Interactive Web Map located at http://epa.ohio.gov/ddagw/swap.aspx and selecting "Source Water Protection Areas" under the "Quick Links". When the map appears, you can search by water system name or by the 7-digit PWS ID number which is OH7400411 for the City of Fostoria.

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 Strom 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 Fostoria North conducted sampling for bacteria and disinfection byproducts during 2017. Samples were collected for a total of 12 different contaminants most of which were not detected in the Northwestern Water & Sewer District – Fostoria North water supply.
- The City of Fostoria conducted sampling for bacteria; inorganics; synthetic organics; and volatile organics during 2017. Samples were collected for a total of 75 different contaminants most of which were not detected in the City of Fostoria 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 – Fostoria North and the City of Fostoria drinking water.

TABLE OF DETECTED CONTAMINANTS – Northwestern Water & Sewer District – Fostoria North

Contaminants (Units)	MCLG	MCL		Range of Detections	Violation	Sample Year	Typical Source of Contaminants			
Residual Disinfectants										
Total Chlorine (ppm)	4	4	1.46	1.23 – 1.46	NO	2017	Water additive used to control microbes.			
Disinfection Byproducts										
Total Trihalomethanes TTHMs (ppb)	0	80	56.4	33.2 – 77.8	NO	2017	By-product of drinking water chlorination.			
Haloacetic Acids HAA5 (ppb)	0	60	15.95	13.7 – 20.1	NO	2017				
Lead and Copper	Lead and Copper									
Contaminants (Units)	Action Level (AL)		l Results over	90% of test levels were less than	Violation	Sample Year	Typical Source of Contaminants			
Lead (ppb)	15 ppb	0		0 ppb	NO	2016	Corrosion of household plumbing systems.			
	Zero out of 5 samples was found to have lead levels in excess of the lead action level of 15 ppb.									
Copper (ppm)	1.3 ppm		0	0.061 ppm	NO	2016	Corrosion of household plumbing systems.			
	Zero ou	Zero out of 5 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.								

TABLE OF DETECTED CONTAMINANTS: City of Fostoria

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants	
Microbiological Contaminants								
Turbidity (NTU)	NA	TT	0.16	0.03 - 0.16	NO	2017	Soil runoff.	
Turbidity (% meeting standard)	NA	TT	100%	100%	NO	2017		
Total Organic Carbon	NA	TT	1.92	1.82 – 2.43	NO	2017	Naturally present in the environment.	
Inorganic Contaminants								
Barium (ppm)	2	2	0.012	NA	NO	2017	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	
Chromium (ppb)	100	100	0.36	0.11 – 0.36	NO	2014	Discharge from steel and pulp mills; Erosion of natural deposits.	
Fluoride (ppm)	4	4	1.00	0.84 – 1.20	NO	2017	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Nitrate (ppm)	10	10	2.89	0.25 – 2.89	NO	2017	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.	

Synthetic Organic Contaminants								
Alachlor (ppb)	0	2	0.10	ND - 0.10	NO	2017	Runoff from herbicide used on row crops.	
Atrizine (ppb)	3	3	0.07	ND – 0.07	NO	2017		
Simazine (ppb)	4	4	0.05	ND - 0.05	NO	2017	Herbicide runoff.	

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 Fostoria's highest recorded turbidity result for 2017 was 0.16 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 – Fostoria North 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 800-426-4791or at http://www.epa.gov/safewater/lead.

Revised Total Coliform Rule (RTCR) Information

All water systems were required to begin compliance with a new rule, the Revised Total Coliform Rule, on April 1, 2016. The new rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of total coliform bacteria, which includes E. coli bacteria. The U.S. EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contamination to identify and fix problems. As a result, under the new rule there is no longer a maximum contaminant level violation for multiple total coliform detections. Instead, the new rule requires water systems that exceed a specified frequency of total coliform occurrences to conduct an assessment to determine if any significant deficiencies exist. If found, these must be corrected by the PWS.

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, public participation and comment are encouraged at regular meetings of City Council which meets on the 1st and 3rd Tuesdays of each month at 7:30 pm in the Municipal Building at 213 S. Main St., Fostoria, OH 44830. For more information on your drinking water contact Ron Fauls, Water Plant Superintendent, by calling (419) 435-2793.

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.
- Contact Time (CT) means the mathematical product of a "residual disinfectant concentration" (C), which is determined before or at the first customer, and the corresponding "disinfectant contact time" (T).
- Microcystins: Liver toxins produced by a number of cyanobacteria. Total microcystins are the sum of all the variants/congeners (forms) of the cyanotoxin microcystin.
- Cyanobacteria: Photosynthesizing bacteria, also called blue-green algae, which naturally occur in marine and freshwater ecosystems, and may produce cyanotoxins, which at sufficiently high concentrations can pose a risk to public health.
- Cyanotoxin: Toxin produced by cyanobacteria. These toxins include liver toxins, nerve toxins, and skin toxins. Also sometimes referred to as "algal toxin".
- 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 (μg/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.

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