

2019 Annual Drinking Water **Quality Report**

Napoleon Water Treatment Plant PWS#OH3500811

Introduction:

The Napoleon Water Plant has prepared the following report to provide information to you, the customer, on the quality of your drinking water. Included in this report is general health information, water quality test results, and how to participate in decisions concerning your drinking water and water system contacts. This Report, mandated by the U.S. Environmental Protection Agency and funded by the City of Napoleon, covers all required testing results between January 1 and December 31, 2019.

Community Participation:

You are invited to participate in our public forum and voice your concerns about your drinking water. Napoleon City Council meets the 1st and 3rd Monday each month at the City Building at 7:00 PM. The City building council chambers is located at 255 West Riverview Ave.

License to Operate:

For the year 2019, the Napoleon Water Treatment Plant had a current, unconditioned license to operate our water system.

Where does my water come from:

The Napoleon Water Treatment Plant has an abundant water supply from two sources. The Napoleon Water Plant draws from the Maumee River daily. Our second source is the Wauseon Reservoir. We pump daily, weather permitting to the reservoir. In 2019 Napoleon pumped 360 million gallons of raw water to the Wauseon Reservoir. The flow can be reversed and Napoleon can flow back when there are water quality issues in the river, such as non-point agricultural runoff. Our treatment facility provided roughly 420 million gallons of clean drinking water in 2019. The City of Napoleon public water system uses surface water drawn from an intake on the Maumee River.

Source Water Information:

contaminated by chemicals and pathogens, which may rapidly which must provide the same protection for public health. time to prepare. The City of Napoleon's drinking water source be expected to contain at least small amounts of some protection area contains potential contaminant sources such as contaminants. The presence of contaminants does not agriculture, septic systems, oil and gas production activities, necessarily in dicate that water poses a health risk. More commercial and industrial sources, roadways and railways.

The City of Napoleon'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 further decreased by implementing measures to protect the Maumee River. Information that is more detailed is provided in the City of Napoleon's Drinking Water Source Assessment report, which can be obtained by calling the Water Plant Superintendent at 419-592-8811.

Sources of Drinking Water Contamination:

include rivers, lakes, streams, ponds, reservoirs, springs and other microbiological contaminants are available from the Safe wells. As water travels over the surface of the land or through Drinking Water Hotline (800-426-4791). the ground, it dissolves naturally occurring minerals and in some cases, radioactive material, and can pick up substances Lead: resulting from the presence of animals or from human activity. Contaminants that may be present in source water include;

may come from sewage treatment plant, septic systems, primarily from materials and components associated with agricultural livestock operations and wildlife:

be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas your water has been sitting for several hours, you can production, mining or farming;

of sources such as agriculture, urban storm water runoff and drinking or cooking. If you are concerned about lead in your residential uses:

volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas Water Hotline or at www.epa.gov/safewater/lead. Infants and stations, urban storm water runoff and septic systems;

or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, USEPA in the community as a result of materials used in your home's For the purposes of source water assessments, in Ohio all surface prescribes regulations which limit the amount of certain plumbing. If you are concerned about elevated lead levels in

waters are considered too susceptible to contamination. By their contaminants in water provided by public water systems. FDA nature, surface waters are readily accessible and can be regulations establish limits for contaminants in bottled water, arrive at the public drinking water intake with little warning or Drinking water, including bottled water, may reasonably combined sewer overflows, wastewater treatment discharges, 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.

Important Health Information:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate The sources of drinking water both tap water and bottled water means to lessen the risk of infection by cryptosporidium and

Lead in Home Plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant (A) Microbial contaminants, such as viruses and bacteria, which women and young children. Lead in drinking water is service lines and home plumbing. We are responsible for (B) Inorganic contaminants, such as salts and metals, which can providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When minimize the potential for lead exposure by flushing your (C) Pesticides and herbicides, which may come from a variety tap for 30 seconds to 2 minutes before using water for water, you may have your water tested. Information on lead (D) Organic chemical contaminants, including synthetic and in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking voung children are typically more vulnerable to lead in (E) Radioactive contaminants, which can be naturally occurring drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water.

Nitrate:

Nitrate in drinking water at levels above 10 ppm is a health risk for infants 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 for advice from your health care provider.

Cryptosporidium:

The Napoleon Water Plant started testing for Cryptosporidium round two in 2019. 2 of 9 samples taken of the raw water detected Cryptosporidium. It was not detected in the finished water. Cryptosporidium is a microbial parasite found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Monitoring of source water and/or finished water indicates the presence of these organisms. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Symptoms of infections include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at a greater risk of developing life-threating illness. We encourage immuno- compromised individuals to consult their doctor regarding appropriate precautions to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water. The City of Napoleon Water Treatment Plant currently has a UV disinfection system and is proud to let our customers know that the current water treatment system that is in operation effectively removes Cryptosporidium detected in the raw surface water as required by the Ohio EPA.

City of Napoleon Did Not Meet Monitoring and Reporting Requirements

We are 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 June 2019 we "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 City of Napoleon did not monitor results for each individual filter on June 6,7,8,9, and 10, 2019.

What Should I Do?

There is nothing you need to do at this time. You do not need to boil your water or take other corrective action. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

What is being done?

Upon being notified of this violation, the City of Napoleon was directed to perform monitoring and reporting of turbidity, as required. We are taking appropriate steps to ensure that adequate monitoring will resume as soon as possible. For more information, please contact the Water Treatment Superintendent at 419-592-8811. Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, apartments, nursing homes, schools, businesses). You can do this by posting this notice in a public place or distribution copies by hand or mail.

Definitions of terms contained within this report:

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

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 Questions? For information in this report or question regarding expected risk to health. MCLGs allow for a margin of safety.

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

MRDLG (Maximum Residual disinfectant level goal): The level of a 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 of microbial contaminates.

Nephelometric Turbidity Unit (NTU): nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

Treatment Technique (TT): A treatment technique is a required process intended to reduce the level of a contaminant in drinking water. NA: Not applicable.

TC: Total Coliform Bacteria, coliforms are bacteria that are naturally present in the environment and are used as an indicator that other; potentially harmful, bacteria may be present.

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).

Microcvstins: Liver toxins produced by a number of cvanobacteria. 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".

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.

SAMPLING RESULTS: During the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic or synthetic organic contaminates. The table shows only those contaminants that were detected in the water. The state allows us to monitor for certain substances less than once per vear because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with year in which the sample was take.

your drinking water please, contact Jeff Weis, Water Treatment Plant Superintendent at 419-592-8811.

*** Much of the verbage here within is mandatory language provided by the Ohio EPA***

Napoleon Water Treatment Plant 527 Welsted St., Napoleon, Ohio 43545; 419-592-8811 Jeff Weis, Water Plant Superintendent

Regulated Subs	<u>stances</u>			- •			
Contaminants	Vors Sampled	MCL		Amount	Danas Louy High	Violation	Tunical Source
(units)	Year Sampled	(MRDL)	MCLG (MRDLG)	Detected	Range Low-High	Violation	Typical Source
Bacteriological		1					
Coliform bacteria	2019	1	0	0	0	NO	Notice the present in the environment
tests Microbiological C		<u> </u>	<u> </u>	<u> </u>	<u> </u>	NU	Naturally present in the environment.
				0.41	0.02.0.41		Coll Dunoff
Turbidity (NTU)	2019	TT	NA	0.41	0.03-0.41	NO	Soil Runoff
Turbidity (Lowest Monthly % of	1	1	1	1			
samples meeting	1	1	1	1			
limit)	2019	TT	NA	100%	NA	NO	Soil Runoff
•					on system. The turbidity limit set by the EPA is {0.3	3NTU) in 95% of the daily samples and sh	all not exceed 1 NTU at any time. As
reported above, the h	ighest recorded turbidity wa	s 0.41 NTU and th	ne Lowest Monthly percen	tage of samples	es meeting the turbidity limits was 100%		
Total Organic	1	1	1	1			Naturally present in the
Carbon (TOC) (ppm)	2019	TT	NA	3.12	2.5-3.6	NO	environment.
					removed to the percentage of TOC required to be	2 removed. A value of greater than one in	dicates that the water system is in
	TOC removal requirements. A	value of less that	n one indicates a violation	of the TOC rem	ioval requirements.		
Inorganic Contar	hinants					 _	
ļ	1	1	1	1			Erosion of natural deposits; Water additive which promotes strong teeth;
I	1	1	1	1			Discharge from fertilizer and aluminum
Fluoride (ppm)	2019	4	4	1.16	0.94-1.20	NO	factories.
	, ,	[,	· · · · · · · · · · · · · · · · · · ·	1	1	Runoff from fertilizer; Leaching from
. 1	1	1	1	1			septic tanks sewage; Erosion of natural
Nitrate (ppm)	2019	10	10	3.96	1.24-3.96	NO	deposits.
I	1	1	1	1			Discharge of drilling wastes; Discharge
Barium (ppm)	2019	2	2	0.015	0 - 0.015	NO	from metal refineries; Erosion of natural deposits.
	ic Contaminants includi			0.013	0 0.015		
Atrazine (ppb)	2019			0.95	<0.7 - 0.95	NO	Runoff from herbicide used on row crops
Residual Disinfect		<u> </u>	·		1 10.7 0.55		Nullott from the block does of the start
Total Chlorine		1	Т	1	Т		
(ppm)	2019	MRDL= 4	MRDLG=4	1.63	1.41 - 1.78	NO	Water additive used to control microbes
	roducts/Volatile Organ						Protei decisio and a second
Haloacetic Acids				T	1	1	
(HAA5) (ppb)	2019	60	NA	20.10	12.8 – 21.4	NO	By-product of drinking water disinfection
TTHMs (Total	,	L1	· · · · · · · · · · · · · · · · · · ·	[
Trihalomethanes)	1	1	1	1			
(ppb)	2019	80	NA	48.08	20.6 - 76.1	NO	By-product of drinking water disinfection
Lead and Copper							
		1	1	1			
Contaminants		Action	Individual Results				
(units)	Year Sampled	Level (AL)	over AL	9	90% of test levels were less than	Violation	Typical source
, I	January – June 2019	AL= 1.3	NA	1	0.028	NO	Corrosion of household plumbing
Copper (ppm)	January – June 2013	AL- 1.3	<u>i NA j</u>	0 Sample	0.028 e sites out of 40 sites sampled were above the AL of		systems.
Cobbci (bb)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			Sites out of to sites sumplea there are to a	1.5 ppm	Corrosion of household plumbing
, I	July – December 2019	AL= 1.3	NA		0.028	NO	systems.
Copper (ppm)				0 Sample	e sites out of 40 sites sampled were above the AL of		
,	· · · ·	I	· · · · · · · · · · · · · · · · · · ·	<u> </u>			Corrosion of household plumbing
,	January – June 2019	AL= 15	NA	1	<2	NO NO	systems.
Lead (ppb)	+	T	.	0 Sample	e sites out of 40 sites sampled were above the AL of	<u>(15 ppb</u>	Consists of household alumbing
. I	July – December 2019	AL= 15	NA	1	<2	NO	Corrosion of household plumbing
Lead (ppb)	July - December 2013	AL- 13		0 Sample	e sites out of 40 sites sampled were above the AL of		systems.
Leau (pps)	<u> </u>			0.000.000	Sites out of 40 sites sumpled more avere inc.	, to hhn	