

Definition Key

AL	Action Level: the concentration of a contaminant which, if exceeded, triggers a treatment or other requirement, which a water system must follow.
MCL	Maximum Contaminant Level: the highest level of a contaminant that is allowed in drinking water; MCLs are set as close to the MCLG's as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal: the level of a contaminant in drinking water below which there is no known or expected risk to health; MCLG's allow for a margin of safety.
MRDL	Maximum Residual Disinfection Level: 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.
MRDLG	Maximum Residual Disinfection Level Goal: the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits to the use of disinfectants to control microbial contaminants.
NA	Not applicable
NTU	Nephelometric Turbidity Unit: measurements of minute suspended particles, used to judge water clarity.
ppb	parts per billion or micrograms per liter (ug/l)
ppm	parts per million or milligrams per liter (mg/l)
TT	Treatment Technique: a required process, intended to reduce the level of a contaminant in drinking water.



Water Quality Report

Each day, our staff works to ensure the water delivered to your home meets all regulatory requirements and your expectations for safety, reliability and quality. For your protection, your drinking water is tested for many parameters. The table below shows only the substances detected in your water during the calendar year. We are proud to report there were no violations during that time.

2020

REGULATED MONITORING AT THE TREATMENT PLANT

SUBSTANCE	UNITS	Range	Average Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Fluoride	ppm	0.6 - 1.1	0.7	4	4	0	Additive which promotes strong teeth
Nitrate	ppm	0.3 - 0.5	0.4	10	10	0	Runoff from fertilizer use, erosion of natural deposits

SUBSTANCE	UNITS	Range	Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Turbidity	NTU	0.03 - 0.12	0.03	TT = 1 NTU	NA	0	Soil runoff and natural sediment
100% of Turbidity sample levels were found to be < 0.3NTU.							

REGULATED CHEMICAL MONITORING IN THE DISTRIBUTION SYSTEM

SUBSTANCE	UNITS	Range	Highest Running Annual Average	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Chlorine Residual	ppm	0.2 - 1.9	0.8	4	MRDLG=4	0	Used to disinfect drinking water
Haloacetic Acids	ppb	11 - 62	34	60	NA	0	Formed when chlorine is added to water with naturally occurring organic material
Trihalomethanes	ppb	34 - 73	59	80	NA	0	

REGULATED MONITORING AT CUSTOMER'S TAP

Compliance is determined using the 90th percentile, where nine out of ten samples must be below the Action Level. Testing was conducted in 2019.

SUBSTANCE	UNITS	Range	90th Percentile	AL	MCLG	Samples Exceeding AL	POSSIBLE SOURCES
Copper	ppb	23 - 242	100	1300	1300	0	Corrosion of household plumbing system, erosion of natural deposits, micronutrients
Lead	ppb	1 - 5	3	15	0	0	

UNREGULATED MONITORING AT THE TREATMENT PLANT

SUBSTANCE	UNITS	Range	Average Level Found	SOURCE
Hardness	ppm	115 - 163	143	Naturally present due to dissolved calcium and magnesium salt
Alkalinity	ppm	101 - 132	109	Dissolved minerals naturally present in the environment that help neutralize the water
Chloride	ppm	14 - 19	16	Naturally present in the environment
Sodium	ppm	9 - 15	11	Naturally present in the environment
Calcium	ppm	34 - 44	41	Naturally present in the environment
Magnesium	ppm	10 - 14	12	Naturally present in the environment
Sulfate	ppm	29 - 37	34	Naturally present in the environment

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. We are 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 have a lead service line it is recommended that you run your water for at least 5 minutes to flush water from your home plumbing and the lead service line.

Our water supply has 0 lead service lines and 300 services of unknown material out of a total of 11,189 service lines.

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 www.epa.gov/safewater/lead.

Testing is also performed to detect the presence of Cryptosporidium and Giardia, which are protozoan parasites that occur in natural surface waters such as lakes, rivers and streams. Wyoming's water treatment process provides multiple barriers, including clarification, filtration, and disinfection, to lower the risk of these contaminants in finished tap water. Monitoring of treated water samples yielded a 100% removal rate, highlighting the effectiveness of the treatment system in microscopic particle removal. For information on microbiological testing, contact the Wyoming laboratory at 616-261-3572.

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. 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 (800-426-4791).



Contact Jamie Fleming at (616) 261-3572 for technical questions about this report, or with any other water quality questions. You are invited to attend the Township meetings: Byron Township meets on the 2nd and 4th Monday of each month at 7pm. See their website at byrontownship.org for more information. Gaines Charter Township meetings are the 2nd Monday of each month at 7pm. See their website at gainestownship.org for more information.

Esta publicación contiene información importante sobre el agua que usted bebe diariamente. Si no lo entiende, busque a alguien que se lo traduzca o le explique su contenido. Para más información, llame al (616) 530-7389 o visite página electrónica. www.epa.gov/espanol/



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**Byron - Gaines
Utility Authority**

Byron Township and Gaines Charter Township 2020 Water Quality Report



We are pleased to report that your drinking water meets, and often is better than, all state and federal guidelines for safe drinking water.

Included in the details of this water quality report is important information about where your water comes from, what's in it, and how it compares to standards set by regulatory agencies.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. However, the presence of contaminants in drinking water does not necessarily indicate that the drinking water poses a health risk.

We purchase water from the City of Wyoming, whose source is Lake Michigan. Rain, groundwater, rivers, and streams feed into Lake Michigan, dissolving naturally occurring minerals and sometimes picking up substances resulting from the presence of animals or from human activity. Some of the substances that can make their way into Lake Michigan are: viruses and bacteria from animal, agricultural, and human activities, salts, metals, pesticides and herbicides, as well as by-products of industrial processes. In order to ensure that tap water is safe to drink, EPA prescribes regulations, called Maximum Contaminant Levels (MCLs) that limit the amount of certain contaminants in your drinking water. Our water source has a moderately high susceptibility to contaminants. For a copy of the most current Source Water Assessment of the water system, please call our office at 616-399-6511.

The U.S. Environmental Protection Agency and the State of Michigan require all community water system suppliers to put the annual water quality report into the hands of their consumers. Rule 63 FR 44511, effective August 19, 1998, requires that all water suppliers shall mail or otherwise directly deliver one copy of their consumer confidence report to each billing customer.



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