

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; MCL's 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

ND Not Detected

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.



2010

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 tables below show only the substances detected in your water during the calendar year. We are proud to report there were no violations during that time.

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, proving the effectiveness of the treatment system in microscopic particle removal. For information on microbiological testing, contact the Wyoming laboratory at 616-261-3562.

Water Quality Report

REGULATED MONITORING AT THE TREATMENT PLANT

SUBSTANCE	UNITS	Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
-----------	-------	-------------	-----	------	-----------------------	------------------

Fluoride	ppm	1.2	4	4	0	Additive which promotes strong teeth
----------	-----	-----	---	---	---	--------------------------------------

SUBSTANCE	UNITS	Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCE
-----------	-------	-------------	-----	------	-----------------------	-----------------

Turbidity	NTU	0.14	TT = 1 NTU	NA	0	Soil runoff and natural sediment
-----------	-----	------	------------	----	---	----------------------------------

100% of Turbidity sample levels were found to be < 0.3 NTU.

REGULATED MONITORING IN THE DISTRIBUTION SYSTEM

SUBSTANCE	UNITS	Range	Highest Running Annual Average	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
-----------	-------	-------	--------------------------------	-----	------	-----------------------	------------------

Chlorine Residual	ppm	0.08 - 2.20	0.85	4	MRDLG=4	0	Used to disinfect drinking water
-------------------	-----	-------------	------	---	---------	---	----------------------------------

Haloacetic Acids	ppb	16 - 28	21	60	NA	0	Formed when chlorine is added to water with naturally occurring organic material
------------------	-----	---------	----	----	----	---	--

Trihalomethanes	ppb	20 - 58	39	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 2010.

SUBSTANCE	UNITS	90th Percentile	AL	MCLG	Samples Exceeding AL	POSSIBLE SOURCES
-----------	-------	-----------------	----	------	----------------------	------------------

Copper	ppb	81	1300	1300	0	Corrosion of household plumbing system, erosion of natural deposits, micronutrients
--------	-----	----	------	------	---	---

Lead	ppb	0	15	0	0	
------	-----	---	----	---	---	--

UNREGULATED MONITORING

SUBSTANCE	UNITS	REPORTED LEVEL	SOURCE
-----------	-------	----------------	--------

Hardness	ppm	119	Naturally present due to dissolved calcium and magnesium salt
----------	-----	-----	---

pH	pH units	7.5	pH is an important measurement of the acidity or alkalinity of water
----	----------	-----	--

Chloride	ppm	10	Naturally present in the environment
----------	-----	----	--------------------------------------

Sodium	ppm	8	Naturally present in the environment
--------	-----	---	--------------------------------------

Results were gathered from tests performed by the City of Wyoming's certified lab, as well as the State of Michigan's Department of Environmental Quality laboratory and other certified private laboratories.

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 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.

Measuring Hardness of Water

Hard water is water that has high mineral content. Though generally, not harmful to one's health, hard water can cause deposits or scaling in pipes and the formation of white precipitate. Minerals in hard water interfere with the cleaning action of soaps and detergents.

The hardness of your water is reported in grains per gallon. One grain of hardness equals 17.1 mg/l or ppm of hardness.

Water hardness is classified by the U.S. Department of Interior and the Water Quality Association as follows:

Classification	mg/l or ppm	grains/gal
Soft	0 - 17.1	0 — 1
Slightly hard	17.1 - 60	1 - 3.5
Moderately hard	60 - 120	3.5 - 7.0
Hard	120 - 180	7.0 - 10.5
Very hard	180 & over	10.5 & over

As authorized by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year.

We add fluoride to your tap water to help build strong, healthy teeth that resist decay. Water fluoridation has been recognized as one of the 10 greatest public health achievements of the 20th century by the Centers for Disease Control and Prevention.

Byron Township
8085 Byron Center Ave, PO Box 264
Byron Center MI 49315



Gaines Charter Township
8555 Kalamazoo Ave.
Caledonia, MI 49316

PRSRT STD
US POSTAGE
PAID
GRAND RAPIDS MI
PERMIT #17

Byron Township and Gaines Charter Township's 2010 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.

We purchase water from the City of Wyoming whose source for drinking water 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 which 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) which limit the amount of certain contaminants in your drinking water.



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.

Systems serving 10,000 or more are not eligible for a mailing waiver. The cost to design, print and mail this report was less than \$0.30 per piece.

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.

For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline: (800) 426-4791.

**Take a tour of the
Drinking Water Treatment Plant.
To schedule, call 616-669-5780.**

Help protect our Source for Drinking Water

You can participate in public hearings related to the protection of our source water by contacting the Michigan Department of Environmental Quality (MDEQ) on the web at www.deq.state.mi.us.



You may also call (800)662-9278 for a listing of public hearings regarding various environmental issues in your area. Our water supply 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.

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/



Call Myron Erickson, at (616)261-3562 for technical questions about this report, or with any water quality questions. You are invited to attend township meetings which are held at the respective township offices: Byron Township on the 2nd and 4th Monday of each month at 7:00 p.m. and Gaines Charter Township on the 2nd Monday of each month at 7:00 p.m.