

# The Water We Drink



City Of Newaygo Water Distribution System  
2017 Consumer Confidence Report

# 2017 Water Quality Report for the City of Newaygo

This report covers the drinking water quality for the City of Newaygo for the 2017 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

Your water comes from 3 groundwater wells, each over 153 feet. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. The susceptibility of our source is low for all 3 wells.

There are no Significant sources of contamination in our water supply. We are making efforts to protect our sources by PARTICIPATION IN THE WELLHEAD PROTECTION PROGRAM.

If you would like to know more about the report, please contact the City of Newaygo, Department of Public Works. Toby Wight at 231-652-7984.

- **Contaminants and their presence in water:** 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 **EPA's Safe Drinking Water Hotline (800-426-4791)**.
- **Vulnerability of sub-populations:** 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 systems 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).
- **Sources of drinking water:** The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and

wells. Our water comes from 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:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.
- **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 stormwater runoff, and septic systems.



In order to ensure that tap water is safe to drink, EPA prescribes regulations that 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 provide the same protection for public health.



## Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2017 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2017. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

### Terms and abbreviations used below:

- **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 a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
<b>Inorganic Contaminants</b>							
Fluoride (ppm)	4	4	0.93	0.93	2017	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Sodium <sup>1</sup> (ppm)	N/A	N/A	31	31	2017	NO	Erosion of natural deposits.
<b>Disinfectants &amp; Disinfection By-Products</b>							
TTHM - Total Trihalomethanes (ppb)	80	N/A	0.9	0.9	2017	NO	Byproduct of drinking water disinfection
Chlorine <sup>2</sup> (ppm)	4	4	0.19	0.08-0.33	2017	NO	
<b>Inorganic Contaminant Subject to AL</b>	<b>AL</b>	<b>MCLG</b>	<b>Your Water<sup>4</sup></b>	<b>Year Sampled</b>	<b># of Samples Above AL</b>	<b>Does System Exceed AL? Yes / No</b>	<b>Typical Source of Contaminant</b>
Lead (ppb)	15	0	4.0	2015	1	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.140	2015	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

- **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 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 microbial contaminants.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
- **N/A:** Not applicable **ND:** not detectable at testing limit **ppb:** parts per billion or micrograms per liter **ppm:** parts per million or milligrams per liter **pCi/l:** picocuries per liter (a measure of radioactivity).
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Level 1 Assessment:** A study of the water supply to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment:** A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

<sup>1</sup> Sodium is not a regulated contaminant.

<sup>2</sup> The chlorine "Level Detected" was calculated using a running annual average.



- <sup>3</sup> *E. coli* MCL violation occurs if: (1) routine and repeat samples total coliform-positive and either is *E. coli*-positive, or (2) supply fails to take all required repeat samples following *E. coli*-positive routine sample, or (3) supply fails to analyze total coliform-positive repeat sample for *E. coli*.
- <sup>4</sup> 90 percent of the samples collected were at or below the level reported for our water.

The City of Newaygo had one positive bacteriological sample in June 2017 which can be naturally present in the environment. After follow up testing all samples were negative.

**Information about lead:** 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 Newaygo 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 or at <http://www.epa.gov/safewater/lead>.

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Monitoring and Reporting to the DEQ Requirements: The State and EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2017.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at Newaygo City Hall. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality, you may attend Council Meetings on the first Monday of every month at 7pm For more information about your water, or the contents of this report, contact Toby Wight @ 231-652-7984 or visit [Newaygocity.org](http://Newaygocity.org). For more information about safe drinking water, visit the U.S. Environmental Protection Agency at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).



### City of Newaygo Wins 2017 Water Utility of the Year Award

The Michigan Rural Water Association awarded the City of Newaygo, Water Utility of the Year at their annual conference in Traverse City, Michigan on Thursday March 16, 2017. This award was for a new well that was constructed in early 2014 along with upgrades to the existing water treatment plant and construction of a new water treatment plant with a modernized computer control system. The project went well due to the collaboration between the City Manager, Water Supervisor and the D.P.W. Superintendent. Eli Bromley with MRWA was impressed with how City management and the Water Dept worked as a team to produce a good project. The

City is committed to continuous learning as evidenced by the following: The City water Supervisor Toby Wight has a D-2 / S-2 certification. The City also has a second operator with a D-3 / S-3 certification. The City has two more employees who will be testing for their S-3 / D-3 in the spring. The operators have aggressively kept up the plant and system in a manner consistent with the professionalism of the water industry. Congratulations to all the employees of the City of Newaygo, and everyone who had a part in this.

Found in the picture from left to right are Toby Wight (Water Operator), Jon Schneider (City Manager), Andrea Schroeder (President of MRWA), and Ron Wight (DPW Superintendent)