

2019 Water Quality Report for City of Reading

This report covers the drinking water quality for City of Reading for the 2019 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2019. 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 two groundwater wells, each over ninety feet deep. 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 moderate.

There are no significant sources of contamination in our water supply. We are making efforts to protect our water supply by identifying potential contamination sources and establishing protocol for the response of accidental release of those contaminants in our wellhead protection area should one occur as outlined in our Wellhead Protection Program.

If you would like to know more about the report please contact:

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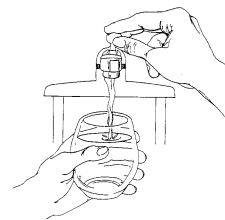
tom@reading.mi.us or www.reading.mi.us

- **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 storm water 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 storm water 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 were detected during the 2019 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, 2019. 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 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.
- **Maximum Residual Disinfectant Level (MRDL):** means 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):** means 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.
- **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:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our water meets health standards. Between October 1, 2019 and December 31, 2019 we did not monitor for arsenic and therefore cannot be sure of the quality of our drinking water during that time.

Regulated Contaminant	MCL	MCLG	Highest Level Detected	Highest Running Annual Average	Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
Arsenic (ppb)	10	0	0	0	0	2019	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2	2	0.37	N/A	0.06 to 0.37	2012	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	.43	N/A	0.1 to 4	2019	No	Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
TTHM – Total Trihalomethanes (ppb)	80	N/A	25.3	N/A	N/A	2019	No	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	60	N/A	4	N/A	N/A	2019	No	Byproduct of drinking water disinfection
Chlorine (ppm)	MRDL	MRDLG	1.34	0.72	0.10 to 1.34	2019	No	Water additive used to control microbes
	4	4						
Total Xylenes (ppm)	10	10	0.0000		0-0.0005	2019	No	Discharge from Petroleum factories Discharge from Chemical factories

Radioactive Contaminant	MCL	MCLG	Highest Level Detected	Highest Running Annual Average	Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
Alpha emitters (pCi/L)	15	0	1.16	N/A	N/A	2015	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	0.85	N/A	0.29 to 0.85	2015	No	Erosion of natural deposits
Contaminant Subject to AL	Action Level	MCLG	90% of Samples ≤ This Level		Year Sampled	Number of Samples Above AL	Typical Source of Contaminant	
Lead (ppb)	15	0	1		2018	0	Corrosion of household plumbing systems; Erosion of natural deposits	
Copper (ppm)	1.3	1.3	0		2018	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives	
Special Monitoring and Unregulated Contaminant *			Average Level Detected	Range		Year Sampled	Comments	
Sodium (ppm)			10	N/A		2019	Typical source is erosion of natural deposits	

* Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Information about lead: If present elevated levels of lead or copper 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 Reading 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 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

The City of Reading did an inventory of all water services in 1980 and no lead service lines were recorded, neither were there any lead goose neck service connections recorded; however, it is possible that at one time, prior to 1980, some of the 339 services may have been connected to a lead goose neck. Prior to 1980, there were 0 services of lead and 339 services of unknown material.

Microbial Contaminants	MCL	MCLG	Number Detected	Violation Yes / No	Typical Source of Contaminant
Total Coliform Bacteria	>1 positive monthly sample (>5.0% of monthly samples positive)	0	0	No	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	Routine and repeat sample total coliform positive, and one is also fecal or <i>E. coli</i> positive	0	0	No	Human and animal fecal waste

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 City Hall 113 S. Main St. Reading, MI. 49274 also posted on our website www.reading.mi.us. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. The City Council meetings take place on the second Tuesday of every month at 6:30pm in the Council Chambers located next to City Hall. For more information about your water, or the contents of this report, contact Tom Stephenson at 517-283-2835 or www.reading.mi.us. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.