



# 2019 Drinking Water Quality Report

Dear Customer,

The City of Dexter is once again proud to present to you our Annual Drinking Water Quality Report.

Why did you get this report?

Drinking water regulations require the City to make this information available to customers each year – it's the law!

Why should you read it?

Let's face it – this report isn't going to end up on any Best Seller list. A lot of the wording is technical and mandated by law. However, the quality of our water is important, and we want to keep you informed. It can be useful in your everyday life, as well, if you have special health concerns, or just need to adjust the settings on your water softener.

What does it contain?

This report uses data collected in 2019 to summarize information about your water supply sources, the water system facilities that deliver water to your tap, and the quality of your drinking water. Also included is information about programs underway that ensure that you have safe and dependable drinking water.

Did we meet all our monitoring requirements in 2019?

We have continued to meet the challenge of providing you with a safe and dependable supply of quality drinking water which meets or exceeds the requirements set forth by the United States Environmental Protection Agency (USEPA) and Michigan Department of Environment, Great Lakes, and Energy (EGLE).

What if you have questions?

Please contact Water Utilities at (734) 426-4572 if you would like help understanding the information provided, or have questions about your drinking water. This report is also available online at

[https://www.dextermi.gov/Departments\\_Services/Water\\_Sewer/Water\\_Quality\\_Report\\_2019.pdf](https://www.dextermi.gov/Departments_Services/Water_Sewer/Water_Quality_Report_2019.pdf).

Get involved!

The City of Dexter Council meets at 7:00 p.m. on the 2<sup>nd</sup> and 4<sup>th</sup> Mondays of every month in the Dexter Senior Center at 7720 Ann Arbor Street, Dexter, Michigan.

## Quick Reference

### WATER & SEWER UTILITIES

*Business Line*

(734) 426-4572

Office hours: 7am-3:30pm

*Emergency Water problems &  
Sewer Backups*

(734) 368-5212

24 hour phone line



## Quick Reference

### DEXTER CITY OFFICE

[www.dextermi.gov](http://www.dextermi.gov)

Office hours: 9am – 5pm

*For utility billing & taxes*

(734) 426-8303

### DEXTER PUBLIC WORKS

*General maintenance for  
streets, parks, and facilities*

(734) 426-8530

# Water Quality Test Results

Each year, we constantly take water samples in order to determine the levels of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants that might be present. This report includes information on all regulated drinking water contaminants detected during the calendar year of 2019. Contaminants which were tested for, but not detected, are not included in this report. Some other contaminants are not required to be monitored every year because they change infrequently.

Regulated Parameter	Your Water Results	Results Range	EPA Limit (MCL, or MRDL)	EPA Goal (MCLG or MRDLG)	Likely Source
<b>Disinfection &amp; Disinfection Byproducts</b> *The EPA requires us to report HAA5 as a total of 5 tests, and TTHMs a total of 4 tests, not an average.					
Chlorine	0.6 ppm	0.1 – 1.2 ppm	4 ppm	4 ppm	Water additive used to control microbes
HAA5 (total haloacetic acids)	6.7 ppb*	0 – 2.8 ppb	60 ppb	N/A	By-product of drinking water disinfection
TTHMs (total trihalomethanes)	55 ppb*	7 - 18 ppb	80 ppb	N/A	By-product of drinking water disinfection
<b>Radiochemical Contaminants</b>					
Alpha Emitters	1.4 pCi/L	N/A	15 pCi/L	0 pCi/L	Erosion of natural deposits
Combined Radium	1.8 pCi/L	N/A	5 pCi/L	0 pCi/L	Erosion of natural deposits
<b>Inorganic Contaminants</b>					
Arsenic	4 ppb	2 - 4 ppb	10 ppb	0 ppb	Erosion of natural deposits
Barium (2017)	0.2 ppm	N/A	2 ppm	2 ppm	Erosion of natural deposits
Chromium (2017)	1ppb	N/A	100 ppb	100 ppb	Erosion of natural deposits
Fluoride	0.6 ppm	0.1 – 1.0 ppm	4 ppm	4 ppm	Erosion of natural deposits, water additive for strong teeth
Nitrate	0.5 ppm	0.1 - 0.9 ppm	10 ppm	10 ppm	Fertilizer runoff, natural deposits, leaching septic tanks
<b>Regulated at the Customer's Tap</b>	<b>Your Water Results</b>	<b>Results Range (23 tested)</b>	<b>Action Level</b>	<b>EPA Goal (MCLG or MRDLG)</b>	<b>Likely Source</b>
Lead	3 ppb	1 results above AL 0 – 990 ppb	15 ppb	0 ppb	Erosion of natural deposits, corrosion of plumbing systems
Copper	1 ppm	0 results above AL 0 – 1.2 ppm	1.3 ppm	1.3 ppm	Erosion of natural deposits, corrosion of plumbing systems

## Lead and Copper in Drinking Water

Although there is no detectable lead in our source water, tests occasionally show low levels of lead and copper in household tap water. These are primarily caused by the corrosion of household plumbing systems. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. The City of Dexter 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 the 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 both your home plumbing and the lead service line. If you are concerned about the lead levels in your home, you may wish to have your water tested. Information about lead in drinking water, testing methods, and the steps you can take to minimize your exposure is available from the **Safe Drinking Water Hotline (1-800-426-4791)** or at <http://water.epa.gov/drink/info/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. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

## Service Line Inventory

The City of Dexter did an inventory in 2019 of all the water service lines in Dexter. There were 0 lead service lines found in our records. There were records of galvanized service lines that were installed prior to 1988. It is possible that those lines may have been connected to a lead gooseneck at one time. Residents with galvanized service lines have been contacted via letter. Those that are unknown will also be contacted so we can determine the type of service line currently in place.

Copper service lines	1054
Galvanized service line before 1988	17
Unknown service line material	460
Total number of service lines	1514

Other Parameters of Interest	Sample Average	Results Range	Likely Source
Chloride	96 ppm	93-98 ppm	Erosion of natural deposits, road runoff, industrial processes
Hardness	450 ppm	450 ppm	Erosion of natural deposits (multiply ppm by .058 to get grains/gallon)
Sodium	61 ppm	50-72 ppm	Erosion of natural deposits, road runoff, added by water softeners to remove hardness
Sulfate	44 ppm	26-62 ppm	Erosion of natural deposits, industrial processes

### Terms used in this report:

- **Action Level (AL):** The concentrations of a contaminant which, if exceeded, triggers treatment or other requirements which the water system must follow.
- **Maximum Contaminant level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs (goal) as feasible using the best available treatment technology.
- **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.
- **N/A:** Not applicable.
- **Not Detected:** Not detected at or above the minimum reporting level – laboratory analysis indicates that the constituent is not present.
- **pCi/L:** Picocuries per liter (a measure of radioactivity).
- **1 part per million (ppm) or milligrams per liter (mg/L)** corresponds to one minute in two years of a single penny in \$10,000. 1ppm – 1000 ppb.
- **1 part per billion (ppb) or micrograms per liter (µg/L)** corresponds to one minute in 2,000 years or a single penny in \$10,000,000

## Message from the EPA

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the Michigan Department of Environment, Great Lakes, and Energy (EGLE) prescribe regulations that limit the amount of certain contaminants allowed in the water we drink.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunosuppressed 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. USEPA and CDC guidelines on appropriate means to lessen the risk of infections by *Cryptosporidium* and other microbiological contaminants are available from the **Safe Drinking Water Hotline (1-800-426-4791)**.

### Impurities that may be present in untreated water include:

1. Microbial contaminants, such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. 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.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
4. 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, agricultural application, and septic systems.
5. Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

***Cryptosporidium*** is a protozoan parasite that is too small to be seen with a microscope. It is sometimes found in surface waters, especially when the waters contain a high amount of fecal waste from runoff or other activities. Those who are infected with this parasite can experience gastrointestinal illness.



### You can receive news by email!

Are you interested in an easy way to stay current on City information and events? The City Email Update includes details of upcoming events, project updates, due date reminders, and general news.

Just go to the City of Dexter homepage at [www.dextermi.gov](http://www.dextermi.gov). Click on the "I Want to" button at the top and select 'Sign Up for E-Mail Update' from the drop-down menu.

## Mandatory Outdoor Water Restrictions

Outdoor water usage (watering lawns, washing cars, irrigation, etc.) is restricted to odd or even days based on your street address. Residents and businesses with odd-numbered addresses (addresses ending in 1, 3, 5, 7, or 9) are only allowed to water on odd-numbered days. Residents and businesses with even-numbered addresses (ending in 2, 4, 6, 8, or 0) may only water on even-numbered days.

Outdoor watering is also prohibited between 6 am and 10 am. Please adjust the start time(s) for your sprinkler or irrigation system accordingly. We would like to thank you for your cooperation protecting and conserving our water resources.

## From Source to Tap

The City of Dexter strives to provide the best quality drinking water possible. This report is intended to provide you with useful information about your drinking water and satisfy United States Environmental Protection Agency (EPA) and Michigan Department of Environment, Great Lakes, and Energy (EGLE) notification requirements.

### Where does my water come from?

Dexter's water comes from two well fields: one in Dexter Community Park, behind LaFontaine Chevrolet; the other behind Dexter High School, off Parker Road.

There are four wells in Dexter Community Park. These feed the filtration plant on Central Street. The water is filtered, fluoridated, iron is removed, orthophosphate is added for corrosion control, and disinfected. Then it is pumped into the City water tower for use by the public.

Water from the single well by Dexter High School is treated on-site. It is fluoridated, treated with polyphosphate for iron sequestration and corrosion control, disinfected, and pumped to the water tower for public use.

### Protected Sources

In 2003, the State of Michigan conducted tritium testing to determine the relative potential for contamination of our wells by surface pollutants. The Dexter aquifer was classified by the State as "not vulnerable" to casual contamination, and the Dexter Wellhead Program was instituted to help protect against other threats to our water supply.

### What about PFAS?

We don't normally report on contaminants with test results of zero, but PFAS has been making headlines in the news lately. Dexter's source water was tested by an independent laboratory as a part of the statewide initiative, and there was no PFAS contamination present in either well field.

Per- and polyfluoroalkyl substances (PFAS) are a group of chemicals that have been classified by the EPA as an emerging contaminant. PFAS have been around since the 1950s, but we didn't know much about their effects until the early 2000s, when scientists began releasing data on PFAS health impacts and their persistence in the environment. PFAS compounds have been used in many industrial applications and consumer products such as carpeting, waterproof clothing, upholstery, food paper wrappings, firefighting foams, and metal plating. PFAS compounds bioaccumulate, meaning the amount builds up over time in the blood and organs. For information: <https://www.epa.gov/pfas>; <https://www.atsdr.cdc.gov/pfas/>; or <http://www.michigan.gov/pfasresponse>.

### Educational Information

The sources of drinking water (both tap water and bottled water) include: rivers, lakes, streams, ponds, reservoirs, springs, and wells.

As water travels through the ground it dissolves naturally-occurring minerals and can pick up substances resulting from the presence of animals or from human activity. These include: microbial contaminants, such as viruses and bacteria; inorganic contaminants, such as salts and metals; organic chemical contaminants, pesticides, herbicides, and radioactive substances, which can be naturally-occurring.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants even after treatment. The presence of contaminants does not necessarily indicate that the water poses a health risk.

More information about the contaminants and potential health effects can be obtained by calling the EPA's **Safe Drinking Water Hotline** at **1-800-426-4791**.

