

2022 Water Quality Report for FORD RIVER TOWNSHIP

Water Supply Serial Number: **2350**

This report covers the drinking water quality for Ford River Township, for the calendar year 2022. This information is a snapshot of the quality of the water that we provided to you in 2022. 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 **#2** and **#3** that are each 660 feet in depth. The State performed an assessment of our source water in 2003 to determine the susceptibility or the relative potential of contamination. The susceptibility of well #1 was very high, while #2 and #3 are rated very low. Well #1 was abandoned in 2011.

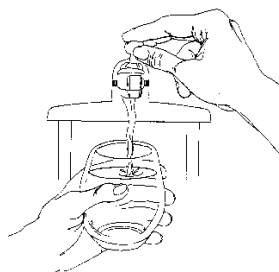
For more information about the contents of this report, contact Troy Rodman at the township hall 906-786-8532.

- **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. U.S. EPA/CDC for Disease control 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 are 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 establishes for contaminants in bottled water which provide the same protection for public health.



Ford River Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2022 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 through December 31, 2022. 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):
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 contaminant in drinking water.
- MC:
Many compounds tested in this group, each have their own EPA assigned MCL and MCLG.
- Action Level (AL):
The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

- N/A: Not applicable
- ND: not detectable at testing limit
- ppm: parts per million or milligrams per liter
- ppb: parts per billion or micrograms per liter
- ppt: parts per trillion or nanograms per liter
- pCi/l: picocuries per liter (a measure of radioactivity)

1 Monitoring Data for Regulated Contaminants

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Barium (ppm)	2	2	0.033	2019	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Cyanide	0.2	0.2	ND	2019	No	Used in electroplating, steel processing, plastics, synthetic fabrics, fertilizer production; also, from improper waste disposal
Nitrate/Nitrite-N (dw) (ppm)	10	10	ND	2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	0.77	2020	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ¹ (ppm)	N/A	N/A	33	2020	No	Erosion of natural deposits
Alpha emitters (pCi/L)	15	0	2.17	2021	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	3.23	2021	No	Erosion of natural deposits
Total Coliform	TT	0	0	Monthly	No	Naturally present in the environment
E. coli in the distribution system (positive samples)	See E. coli note ²	0	0	Monthly	No	Human and animal fecal waste
Volatile Organic Compounds (ppb)	MC	MC	0	2022	No	Enter the environment when used to make plastics, dyes, rubbers, polishes, solvents, crude oil, insecticides, inks, varnishes, paints
SOC's (Pest, Herb, Carb. All) ppb	MC	MC	0	2022	No	Pesticides, Herbicides, Carbamates

¹ Sodium is not a regulated contaminant.

² *E. coli* MCL violation occurs if: (1) routine and repeat samples are total coliform-positive and either is *E. coli*-positive, or (2) the supply fails to take all required repeat samples following *E. coli*-positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for *E. coli*.

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	N/A	ND	<2	2022	No	Discharge and waste from industrial facilities utilizing the Gen X chemical process
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	ND	<2	2022	No	Discharge and waste from industrial facilities; stain-resistant treatments
Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	ND	<2	2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	ND	<2	2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	ND	<2	2022	No	Discharge and waste from industrial facilities; breakdown of precursor compounds
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	ND	<2	2022	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	ND	<2	2022	No	Discharge and waste from industrial facilities; stain-resistant treatments
Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your water ³	Range	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb)	15	0	0.8	0 - 1.0 ppb	2020	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0	0 ppm	2020	0	Corrosion of household plumbing systems; Erosion of natural deposits

³ Ninety (90) percent of the samples collected were at or below the level reported for our water.

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. Ford River Township 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 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 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>.

Service Material:

Our water supply has 90 unknown service lines that likely do not contain any lead, and 15 fully unknown service lines that may contain lead material. We also have 92 service lines that contain neither lead nor galvanized previously connected to lead, out of a total of 197 service lines.

Monitoring and Reporting to the Department of Environment, Great Lakes, and Energy (EGLE) Requirements: The State of Michigan and the U.S. EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2022.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. This report will also be posted online at fordriver.org

We invite public participation in decisions that affect drinking water quality. The Township Board Meeting is scheduled the second Monday of each month at 7:00 pm E.T. For more information about safe drinking water, visit the U.S. EPA at <http://www.epa.gov/safewater>.

For more information about your water, please contact: **Troy Rodman at 906-241-4346, or water@fordriver.org**

Previous Violations:**1. Compliance Communication – 2021 Consumer Confidence Report**

Michigan Safe Drinking Water Act 1976, PA 399: R 325.10413, Annual consumer confidence reporting; content of reports.
During the 2021 monitoring period Ford River Township failed to collect PFAS and Nitrate samples by September 30, 2021. To correct this deficiency and return to compliance, the Township collected PFAS samples on January 11, 2022, all resulting in Non-Detects. This monitoring violation was stated previously in the 2022 CCR. The 2022 compliance samples were taken on July 11, 2022 and results are reported within this CCR.

2. Violation Notice – 2021 Consumer Confidence Report

Michigan Safe Drinking Water Act 1976, PA 399: R 325.10412, Annual consumer confidence reporting; effective dates.
Ford River Township did not distribute the 2021 CCR by July 1, 2022 as required. This violation was resolved and the Township returned to compliance on July 28, 2022 by providing EGLE with a copy as required.