

UNIONVILLE WATER DEPARTMENT WATER QUALITY REPORT 2024

Water Supply Serial Number: 6730

This report covers the drinking water quality for Unionville Water Department, for the calendar year 2024. This information is a snapshot of the quality of the water that we provided to you in 2024. 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 three groundwater wells, two located at 2555 Bay-City Forestville Road, the third located at 2945 Phelps Street. The DEQ has performed a Source Water Assessment report on the Unionville Water Department. We will inform you on how to get a copy of the assessment report later in this publication.

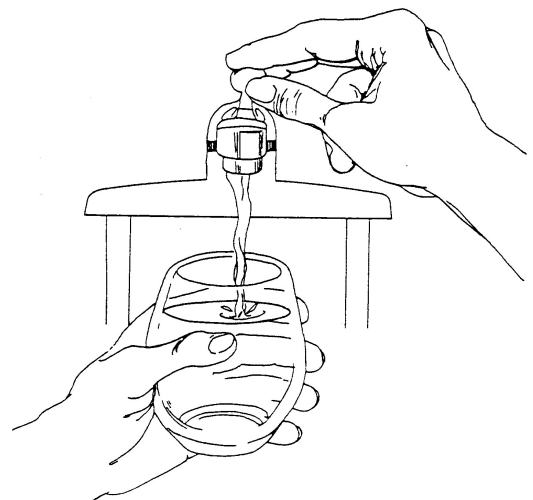
Contaminants and their presence in water: Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential 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:
 - T **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
 - T **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.
 - T **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
 - T **Radioactive contaminants**, which are naturally occurring.
 - T **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 which 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 2024 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, 2024. 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.
- **N/A:** Not applicable **ND:** not detectable at testing limit **ppb:** parts per billion or micrograms per liter **ppm:** parts per million **mg/l:** milligrams per liter **pCi/l:** picocuries per liter (a measure of radiation).
- **Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow **RAA:** running annual average

Contaminant	MCL	MCLG	Our Water	Range of Detections	Sample Date	Violation Y / N	Typical Source of Contaminant
Fluoride (ppm)	4	4	1.0	N/A	02/21/2024	NO	Erosion of natural deposits
Chlorine (ppm)	4	4	0.52	0.5-0.6	RAA	NO	Water additive to control microbes
Unregulated Contaminant							
Sodium (ppm)	N/A	N/A	89	N/A	02/21/2024	N/A	Erosion of natural deposits

Contaminant	Action Level	Our Water	Sample Date	Number of Samples Over Action Level	Range of results	MCLG	Typical Source of Contaminant
Lead (ppb)	15	4*	6/27/2023	0 of 10	0-6	0	Lead service lines, Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	0.1*	6/27/2023	0 of 10	0-0.1	1.3	Corrosion of household plumbing systems; Erosion of natural deposits

* 90 percent of samples at or below this level

Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Lead can cause serious health effects in people of all ages, especially pregnant woman, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. **UNIONVILLE WATER DEPARTMENT** is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes 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 and wish to have your water tested, contact **UNIONVILLE WATER DEPARTMENT** at **(989) 674-2244** for available resources. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney, or nervous system problems.

The PFAS sampling performed in 02/21/2024 showed **Not Detected**.

Is our water system meeting other rules that govern our operations? The State and EPA require us to test our water on a regular basis to ensure its safety.

We did meet all the monitoring and reporting requirements for 2024.

Your water comes from 3 ground wells, each over 180 feet in depth drawing from an aquifer of sandstone bedrock. The State performed an assessment of our source water for wells 1 and 2 in 2005 and well 3 in 2008 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 primarily on geologic sensitivity, water chemistry and contaminant sources. The susceptibility of our sources are Well # 1 **MODERATE**, Well #2 **MODERATE**, Well #3 **LOW**.

We are committed to providing you safe, reliable, and healthy water. We are pleased to provide you with this information to keep you fully informed about your water. We will be updating this report annually, and will also keep you informed of any problems that may occur throughout the year, as they happen.

We invite public participation in decisions that affect drinking water quality. Village council meetings are held on the third Monday of the month at 7:00 P.M. at the Village Hall located at 6454 Merry Street Unionville, Michigan 48767.

For more information about your water, or the contents of this report, contact the Unionville Water Department at Telephone (989) 674-2244 or online at www.unionvillemi.us .

This report will not be mailed but is available to all Unionville water customers online at www.unionvillemi.us/waterqualityreport and this statement is on the April 2024 water bill. You may also request a hard copy at the Unionville Village Offices. The DEQ Source Water Assessment report will not be mailed to each customer however, it is available for viewing at the Village Hall, 6454 Merry St. Unionville, MI 48767.