

# Grand Rapids 2025 Drinking Water Report

## Making Safe Drinking Water

Your drinking water comes from a groundwater source: five wells ranging from 140 to 572 feet deep, that draw water from the Quaternary Buried Unconfined, Animikie Group and Quaternary Buried Artesian aquifers.

Grand Rapids works hard to provide you with safe and reliable drinking water that meets federal and state water quality requirements. The purpose of this report is to provide you with information on your drinking water and how to protect our precious water resources.

Contact Steve Mattson, Water/Wastewater Manager, at 218-326-7195 or [srmattson@grpuc.org](mailto:srmattson@grpuc.org) if you have questions about Grand Rapids's drinking water. You can also ask for information about how you can take part in decisions that may affect water quality.

The U.S. Environmental Protection Agency sets safe drinking water standards. These standards limit the amounts of specific contaminants allowed in drinking water. This ensures that tap water is safe to drink for most people. The U.S. Food and Drug Administration regulates the amount of certain contaminants in bottled water. Bottled water must provide the same public health protection as public tap 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 mean that water poses a health risk. More information about contaminants and potential health effects can be obtained by visiting the website [epa.gov/safewater](http://epa.gov/safewater).

## Grand Rapids Monitoring Results

This report contains our monitoring results from January 1 to December 31, 2025.

We work with the Minnesota Department of Health to test drinking water for more than 100 contaminants. It is not unusual to detect contaminants in small amounts. No water supply is ever completely free of contaminants. Drinking water standards protect Minnesotans from substances that may be harmful to their health.

Learn more by visiting the Minnesota Department of Health's webpage [Basics of Monitoring and testing of Drinking Water in Minnesota](https://www.health.state.mn.us/communities/environment/water/factsheet/sampling.html) (<https://www.health.state.mn.us/communities/environment/water/factsheet/sampling.html>).

## How to Read the Water Quality Data Tables

The tables below show the contaminants we found last year or the most recent time we sampled for that contaminant. They also show the levels of those contaminants and the Environmental Protection Agency's limits. Substances that we tested for but did not find are not included in the tables.

We sample for some contaminants less than once a year because their levels in water are not expected to change from year to year. If we found any of these contaminants the last time we sampled for them, we included them in the tables below with the detection date.

We may have done additional monitoring for contaminants that are not included in the Safe Drinking Water Act. To request a copy of these results, call the Minnesota Department of Health at 651-201-4700 between 8:00 a.m. and 4:30 p.m., Monday through Friday.

## Definitions

- **AL (Action Level):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Contaminant:** Any physical, chemical, biological, or radiological substance or matter in water.
- **EPA:** Environmental Protection Agency
- **MCL (Maximum contaminant level):** 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.
- **MCLG (Maximum contaminant level goal):** 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.
- **MRDL (Maximum residual disinfectant level):** 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.
- **MRDLG (Maximum residual disinfectant level goal):** 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):** Does not apply.
- **ppb (parts per billion):** One part per billion in water is like one drop in one billion drops of water, or about one drop in a swimming pool. ppb is the same as micrograms per liter ( $\mu\text{g}/\text{l}$ ).
- **ppm (parts per million):** One part per million is like one drop in one million drops of water, or about one cup in a swimming pool. ppm is the same as milligrams per liter ( $\text{mg}/\text{l}$ ).
- **ppt (parts per trillion):** One part per trillion is like one drop in one trillion drops of water, or about one drop in 20 Olympic sized swimming pools. ppt is the same as nanograms per liter ( $\text{ng}/\text{l}$ ).
- **PWSID:** Public water system identification.

**Monitoring Results – Regulated Substances**

<b>LEAD AND COPPER – Tested at customer taps.</b>							
<b>Contaminant (Date, if sampled in previous year)</b>	<b>EPA’s Ideal Goal (MCLG)</b>	<b>EPA’s Action Level</b>	<b>90% of Results Were Less Than</b>	<b>Number of Homes with High Levels</b>	<b>Range of Detected Test Results</b>	<b>Violation</b>	<b>Typical Sources</b>
<b>Lead (10/23/25)</b>	0 ppb	90% of homes less than 15 ppb	3.52 ppb	0 out of 30	0 - 11.5 ppb	NO	Corrosion of household plumbing.
<b>Copper (10/23/25)</b>	1.3 ppm	90% of homes less than 1.3 ppm	1.39 ppm	4 out of 30	0.19 - 1.81 ppm	YES	Corrosion of household plumbing.
<b>Lead (05/21/25)</b>	0 ppb	90% of homes less than 15 ppb	<2 ppb	0 out of 61	0 - 10.3 ppb	NO	Corrosion of household plumbing.
<b>Copper (05/21/25)</b>	1.3 ppm	90% of homes less than 1.3 ppm	1.24 ppm	2 out of 61	0.07 - 1.52 ppm	NO	Corrosion of household plumbing.

**Potential Health Effects and Corrective Actions (If Applicable)**

Copper: We are in exceedance of the action level for copper. 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.

**INORGANIC & ORGANIC CONTAMINANTS – Tested in drinking water.**

Contaminant (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
<b>Nitrate</b>	10 ppm	10 ppm	0.27 ppm	N/A	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
<b>Barium (08/29/23)</b>	2 ppm	2 ppm	0.04 ppm	N/A	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit.

**Potential Health Effects and Corrective Actions (If Applicable)**

Water Quality Parameters: 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 your drinking water meets health standards. During the monitoring period of 01/01/25 to 06/30/25, we did not complete all monitoring or testing for Water Quality Parameters and therefore cannot be sure of the quality of your drinking water during that time. Our system completed all monitoring during the monitoring period of 07/01/25 to 12/31/25 and has returned to compliance.

**CONTAMINANTS RELATED TO DISINFECTION – Tested in drinking water.**

Substance (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG or MRDLG)	EPA's Limit (MCL or MRDL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
<b>Total Trihalomethanes (TTHMs)</b>	N/A	80 ppb	27 ppb	20.80 - 32.00 ppb	NO	By-product of drinking water disinfection.
<b>Total Chlorine</b>	4.0 ppm	4.0 ppm	2.14 ppm	1.98 - 2.34 ppm	NO	Water additive used to control microbes.
<b>Total Haloacetic Acids (HAA)</b>	N/A	60 ppb	15.8 ppb	12.80 - 19.20 ppb	NO	By-product of drinking water disinfection.

Total HAA refers to HAA5

<b>OTHER SUBSTANCES – Tested in drinking water.</b>						
<b>Substance</b> (Date, if sampled in previous year)	<b>EPA's Ideal Goal</b> (MCLG)	<b>EPA's Limit</b> (MCL)	<b>Highest Average or Highest Single Test Result</b>	<b>Range of Detected Test Results</b>	<b>Violation</b>	<b>Typical Sources</b>
<b>Fluoride</b>	4.0 ppm	4.0 ppm	0.69 ppm	0.64 - 0.68 ppm	NO	Erosion of natural deposits; Water additive to promote strong teeth.

**Potential Health Effects and Corrective Actions (If Applicable)**

Fluoride: Fluoride is nature's cavity fighter, with small amounts present naturally in many drinking water sources. There is an overwhelming weight of credible, peer-reviewed, scientific evidence that fluoridation reduces tooth decay and cavities in children and adults, even when there is availability of fluoride from other sources, such as fluoride toothpaste and mouth rinses. Since studies show that optimal fluoride levels in drinking water benefit public health, municipal community water systems adjust the level of fluoride in the water to an optimal concentration between 0.5 to 0.9 parts per million (ppm) to protect your teeth. Fluoride levels below 2.0 ppm are not expected to increase the risk of a cosmetic condition known as enamel fluorosis.

## Monitoring Results – Unregulated Substances/Emerging Contaminants

In addition to testing drinking water for contaminants regulated under the Safe Drinking Water Act, we sometimes also monitor for contaminants that are not regulated. Unregulated contaminants do not have legal limits for drinking water. MDH, EPA, and other health agencies may have developed comparison values for some of these compounds. Some of these comparison values are based solely on potential health impacts and do not consider our ability to measure contaminants at very low concentrations nor the cost and technology of prevention and/or treatment. These values may be set at levels that are costly, challenging, or impractical for a water system to meet (for example, large-scale treatment technology may not exist for a given contaminant). Sample data are listed along with comparison values in the table below; it is important to note that these comparison values are not enforceable.

Detection alone of a regulated or unregulated contaminant should not cause concern. The significance of a detection should be determined considering current health effects information. We are often still learning about the health effects, so this information can change over time.

A person drinking water with a contaminant at or below the comparison value would be at little to no risk for harmful health effects. If the level of a contaminant is above the comparison value, people of a certain age or with special health conditions—like a fetus, infants, children, elderly, and people with impaired immunity—may need to take extra precautions. We are notifying you of the unregulated/emerging contaminants we have detected as a public education opportunity.

Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether the Agency should consider regulating those contaminants in the future.

- More information is available on [MDH's A-Z List of Contaminants in Water](https://www.health.state.mn.us/communities/environment/water/contaminants/index.html) (<https://www.health.state.mn.us/communities/environment/water/contaminants/index.html>)
- [Fourth Unregulated Contaminant Monitoring Rule \(UCMR 4\)](https://www.health.state.mn.us/communities/environment/water/com/ucmr4.html) (<https://www.health.state.mn.us/communities/environment/water/com/ucmr4.html>)
- [Fifth Unregulated Contaminant Monitoring Rule](https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule) (<https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule>)
- EPA has developed a [UCMR5 Program Overview Factsheet](https://www.epa.gov/system/files/documents/2022-02/ucmr5-factsheet.pdf) (<https://www.epa.gov/system/files/documents/2022-02/ucmr5-factsheet.pdf>) describing UCMR 5 contaminants and standards.

In the past year, your drinking water may have tested for additional unregulated contaminants as part of the [Fifth Unregulated Contaminant Monitoring Rule](https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule) (<https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule>) and results are still being processed. The Unregulated Contaminant Monitoring Rule 5 (UCMR 5) Data finder allows people to easily search for, summarize, and download the available [UCMR 5 analytical results](https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule-data-finder) (<https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule-data-finder>).

**UNREGULATED/EMERGING CONTAMINANTS – Tested in drinking water.**

Contaminant	Comparison Value	Highest Average Result or Highest Single Test Result	Range of Detected Test Results
Sodium* (2024)	20 ppm	71.7 ppm	N/A
Sulfate (2024)	500 ppm	9.49 ppm	N/A
Perfluorobutanoic acid (PFBA) (2021)	7000 ppt	1.5 ppt	0.00 - 1.50 ppt

\*Note that home water softening can increase the level of sodium in your water.

**Some People Are More Vulnerable to Contaminants in Drinking Water**

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 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available on [EPA's website epa.gov/safewater](https://www.epa.gov/safewater).

**Service Line Material Inventory**

Grand Rapids has completed and submitted our service line materials inventory to the Minnesota Department of Health. The service line inventory is publicly available, and you can check the materials for your service line by visiting the [Lead Inventory Tracking Tool \(LITT\) \(https://maps.umn.edu/LSL/\)](https://maps.umn.edu/LSL/). You may also contact us at [srmattson@grpuc.org](mailto:srmattson@grpuc.org) (Steve Mattson). Since October 2024, Grand Rapids Public Utilities (GRPU) has been working with a local consultant (SEH) who received a grant from the Minnesota Department of Health (MDH) to assist GRPU in completing the required service line materials inventory. The inventory work included reviewing historical records, asking residents to fill out a self-identification survey, and also conducting visual inspections. As of 11/17/2025, our inventory contains 0 lead, 23 galvanized requiring replacement, 2400 unknown material, and 969 non-lead service lines.

**Learn More about Your Drinking Water**

**Drinking Water Sources**

Groundwater supplies 75 percent of Minnesota’s drinking water, and found in aquifers beneath the surface of the land. Surface water supplies 25 percent of Minnesota’s drinking water, and is the water in lakes, rivers, and streams above the surface of the land.

Contaminants can get in drinking water sources from the natural environment and from people's daily activities. There are six main types of contaminants in drinking water sources.

- **Microbial contaminants**, such as viruses, bacteria, and parasites. Sources include sewage treatment plants, septic systems, agricultural livestock operations, pets, and wildlife.
- **Inorganic contaminants** include salts and metals from natural sources (e.g. rock and soil), oil and gas production, mining and farming operations, urban stormwater runoff, and wastewater discharges.
- **Pesticide:** Generally, any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest.
- **Herbicide:** Any chemical(s) used to control undesirable vegetation.
- **Organic chemical contaminants** include synthetic and volatile organic compounds. Sources include industrial processes and petroleum production, gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants** such as radium, thorium, and uranium isotopes come from natural sources (e.g. radon gas from soils and rock), mining operations, and oil and gas production.

The Minnesota Department of Health provides information about your drinking water source(s) in a source water assessment, including:

- How Grand Rapids is protecting your drinking water source(s);
- Nearby threats to your drinking water sources;
- How easily water and pollution can move from the surface of the land into drinking water sources, based on natural geology and the way wells are constructed.

Find your source water assessment at [Source Water Assessments](https://www.health.state.mn.us/communities/environment/water/swp/swa.html) (<https://www.health.state.mn.us/communities/environment/water/swp/swa.html>) or call 651-201-4700 between 8:00 a.m. and 4:30 p.m., Monday through Friday.

## Lead in Drinking Water

Lead can cause serious health problems, babies, children under six years, and pregnant women are at the highest risk. You may be in contact with lead through paint, water, dust, soil, food, hobbies, or your job. There is no safe level of lead.

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Our water system is responsible for providing high quality drinking water and removing lead pipes from service lines but cannot control the variety of materials used in plumbing components in your home. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk.

Read below to learn how you can protect yourself from lead in drinking water.

1. **Let the water run** before drinking tap water flush your pipes for several minutes by running your tap. If you have a lead service line, you may need to let the water run longer. A service line is the underground pipe that brings water from the main water pipe under the street to your home.
  - Activities such as taking a shower, doing laundry or dishes help keep water moving in your home system but are not a replacement for running the tap before you drink if it has not been used for a long period of time.

- The only way to know if lead has been reduced by letting it run is to check with a test. If letting the water run does not reduce lead, consider other options to reduce your exposure.
2. **Know your service line materials** by contacting your public water system, or you can search for your address online at the [Minnesota Lead Inventory Tracking Tool \(https://maps.umn.edu/LSL/\)](https://maps.umn.edu/LSL/).
    - [Protect Your Tap: A quick check for lead \(https://www.epa.gov/ground-water-and-drinking-water/protect-your-tap-quick-check-lead\)](https://www.epa.gov/ground-water-and-drinking-water/protect-your-tap-quick-check-lead) is EPA's step by step guide to learn how to find lead pipes in your home.
  3. **Use cold water** for drinking, making food, and making baby formula. Hot water releases more lead from pipes than cold water.
  4. **Test your water.** In most cases, letting the water run and using cold water for drinking and cooking should keep lead levels low in your drinking water. If you are still concerned about lead, arrange with a laboratory to test your tap water. Testing your water is important if young children or pregnant women drink your tap water.
    - Contact a Minnesota Department of Health accredited laboratory to purchase a sample container and instructions on how to submit a sample:
   
[Environmental Laboratory Accreditation Program \(https://eldo.web.health.state.mn.us/public/accreditedlabs/labsearch.seam\)](https://eldo.web.health.state.mn.us/public/accreditedlabs/labsearch.seam)
  
The Minnesota Department of Health can help you understand your test results.
  5. **Treat your water** if a test shows your water has high levels of lead after you let the water run. You can use a filter certified with ANSI/NSF standards 53 and 42 for lead reduction.
    - Read about water treatment units:
   
[Point-of-Use Water Treatment Units for Lead Reduction \(https://www.health.state.mn.us/communities/environment/water/factsheet/poulead.html\)](https://www.health.state.mn.us/communities/environment/water/factsheet/poulead.html)

Information on lead in drinking water, testing methods, and other steps you can take to minimize exposure are available at:

    - Visit EPA [Basic Information about Lead in Drinking Water \(http://www.epa.gov/safewater/lead\)](http://www.epa.gov/safewater/lead)
    - Visit the Minnesota department of Health [Lead in Drinking Water \(https://www.health.state.mn.us/communities/environment/water/contaminants/lead.html\)](https://www.health.state.mn.us/communities/environment/water/contaminants/lead.html)
    - To learn about how to reduce your contact with lead from sources other than your drinking water, visit [Lead Poisoning Prevention: Common Sources \(https://www.health.state.mn.us/communities/environment/lead/fs/common.html\)](https://www.health.state.mn.us/communities/environment/lead/fs/common.html)
  6. **Be Aware:** Head Start Programs, Child Care Centers, Public and Charter Schools all have requirements to test for lead in drinking water. These programs can learn more about requirements and resources for testing and remediation at [MDH Drinking Water in Schools and Child Cares \(https://www.web.health.state.mn.us/communities/environment/water/schools/index.html\)](https://www.web.health.state.mn.us/communities/environment/water/schools/index.html)

## Help Protect Our Most Precious Resource – Water

### Conservation

Conservation is essential, even in the land of 10,000 lakes. For example, in parts of the metropolitan area, groundwater is being used faster than it can be replaced. Some agricultural regions in Minnesota are vulnerable to drought, which can affect crop yields and municipal water supplies.

We must use our water wisely. Below are some tips to help you and your family conserve – and save money in the process.

- Fix running toilets—they can waste hundreds of gallons of water.
- Turn off the tap while shaving or brushing your teeth.
- Shower instead of bathe. Bathing uses more water than showering, on average.
- Only run full loads of laundry, and set the washing machine to the correct water level.
- Only run the dishwasher when it's full.
- Use water-efficient appliances (look for the WaterSense label).
- Use water-friendly landscaping, such as native plants.
- When you do water your yard, water slowly, deeply, and less frequently. Water early in the morning and close to the ground.

### Reduce Backflow at Cross Connections

Bacteria and chemicals can enter the drinking water supply from polluted water sources in a process called backflow. Backflow occurs at connection points between drinking water and non-drinking water supplies (cross connections) due to water pressure differences.

For example, if a person sprays an herbicide with a garden hose, the herbicide could enter the home's plumbing and then enter the drinking water supply. This could happen if the water pressure in the hose is greater than the water pressure in the home's pipes.

Property owners can help prevent backflow. Pay attention to cross connections, such as garden hoses.

The Minnesota Department of Health and American Water Works Association recommend the following:

- Do not submerge hoses in buckets, pools, tubs, or sinks.
- Keep the end of hoses clear of possible contaminants.
- Do not use spray attachments without a backflow prevention device. Attach these devices to threaded faucets. Such devices are inexpensive and available at hardware stores.
- Use a licensed plumber to install backflow prevention devices.
- Maintain air gaps between hose outlets and liquids. An air gap is a vertical space between the water outlet and the flood level of a fixture (e.g. the space between a wall-mounted faucet and the sink rim). It must be at least twice the diameter of the water supply outlet, and at least one inch.
- Commercial property owners should develop a plan for flushing or cleaning water systems to minimize the risk of drawing contaminants into uncontaminated areas.

## Additional Information

What is GRPU doing to mitigate the copper action level exceedance?

GRPU submitted an optimal corrosion control treatment recommendation to the MN Dept. of Health on March 12, 2026. MN Dept. of Health has approved a corrosion control treatment that includes adding a blended phosphate treatment, in addition to the already-existing soda ash treatment for pH adjustment. GRPU is currently working with Bolton and Menk to come up with a plan for installation, which will be submitted to MN Dept. of Health for approval. Installation of the approved corrosion control treatment must be completed by March 19, 2028.

Legionella is responsible for >90% of waterborne outbreaks caused from plumbing, according to the Centers for Disease Control and Prevention (CDC). In most cases, the treated water delivered to homes all over the U.S. is required to meet federal and state standards for drinking water. Once the water enters a home's plumbing, a different environment exists where the water quality can degrade over time and the plumbing becomes vulnerable to the growth of these bacteria.

Homeowners and building managers have a critical role in protecting the health of their occupants: Maintain proper water heater temperatures to prevent growth of Legionella. A water temperature of 130–140°F can kill many harmful germs but also increases the risk of scalding. If you set the water heater above 120°F, take extra precautions to mix cold and hot water (using thermostatic valves) at the faucet or shower to avoid scalding. This is especially important if young children, older adults, or other people at increased risk of scalding live in your home. Thoroughly flush infrequently used showers and fixtures at least weekly (CDC). Occasionally flush water heaters (annually or as suggested by manufacturer). Properly maintain pools, hot tubs, and humidifiers.

For more information on legionella, please visit our website:

<https://cityofgrandrapidsmn.com/utilities/page/legionella-and-drinking-water-information>