

Noy yog ntaub tseem ceeb. Yog koy tsi to taub, nrhiv neeg pab txhais rau kom sai sai.

Information importante: Si no la entende, haga que alguien se la traduzca ahora.

We encourage customers to stay informed on drinking water issues. For questions or concerns about tap water or information about opportunities for public participation in decisions that may affect the water quality, contact the Water Department at the Prior Lake Maintenance Center at 440-9675.

This annual Water Quality Report is your guide to the quality and safety of the tap water provided by the City of Prior Lake Utilities Department. Please review this report, and let us know about your concerns.

Prior Lake Resident:

May 2005

City of Prior Lake Water Quality Report



City of Prior Lake
16200 Eagle Creek Ave.
Prior Lake, MN 55372-1714

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www.waterwisser.org
www.epa.gov/safewater
www.dnr.state.mn.us/waters
www.health.state.mn.us/divs/eh/water
www.epa.gov/OGWDW/kids

Internet Resources

EPA Safe Drinking Water Hotline 800-426-4791
Minnesota Department of Health 651-215-5800
Minnesota Department of Natural Resources 651-296-6157

Contact Information

The City's web site (www.cityofpriorlake.com) contains information about Prior Lake's Public Works department, water system, water conservation, and lawn watering restrictions. If you'd like to learn more, use sources listed below.

The City of Prior Lake strives to provide safe drinking water and top-notch service to residents. We also encourage you to stay abreast of drinking water issues. Informed water customers are powerful advocates for safe drinking water.

Stay Informed about Drinking Water Issues

Prior Lake Drinking Water Found Safe in 2004

Before the City of Prior Lake delivers water to your home, it is thoroughly tested in certified laboratories that can detect trace amounts of contaminants. Prior Lake test results for last year are shown in the table at right. **No contaminants were detected that exceeded 2004 EPA limits in drinking water.**

EPA regulates substances that are potentially harmful to human health and have a reasonable possibility of being found in drinking water. Tests for some of these substances is frequent: weekly, quarterly, or annually. The levels of some things however, change little over time, or the chances of detecting them is low. These are monitored less than annually. Substances that have been found in previous years' testing are also listed in the table, along with the year that they were found.



No contaminants were detected that exceeded limits for safe drinking water

Definition of Terms in the Table

The **Level Found** can be the highest amount found or the average of all samples analyzed, depending on the regulation for the particular substance.

Regulated substances have Maximum Contaminant Levels (**MCLs**) set by the EPA. This is the highest level of the substance legally allowed in drinking water. Some contaminants also have MCL goals (**MCLGs**). This is the level of a substance below which there is no known or expected health risk. MCLGs allow for a margin of safety. MCLs are set as close to MCLGs as feasible using the best available water treatment processes.
MRDL: Maximum Residual Disinfectant Level
MRDLG: Maximum Residual Disinfectant Level Goal

Unregulated substances do not have MCLs. They are assessed by state standards known as health risk limits. If an unacceptable amount of any substance is ever found in our water, the City of Prior Lake will notify residents immediately and take corrective action to eliminate the problem. Monitoring for unregulated contaminants as required by U.S. Environmental Protection Agency was conducted in 2004. Results of the unregulated contaminant monitoring are available upon request from Cindy Swanson, Minnesota Department of Health, at 651-215-0767. The **Action Level (AL)** is the MCL for lead and copper. If 90% percent of all samples tested are not below the action level concentration, then the water utility is required to perform treatment processes that will help decrease pipe corrosion.

Results of Laboratory Testing City of Prior Lake Drinking Water

January 1 to December 31, 2004



Detected Substance(units) <i>MCL (highest level allowed in water by EPA)</i> <i>MCLG (level where there is no known health risk)</i>	*Test Date	Results for Prior Lake Tap Water		Typical Source of Substance in Drinking Water
		Level Found	2004 Range of Detections	
Fluoride (ppm) <i>MCL: 4.0; MCLG: 4.0</i>	2004	1.07	0.98-1.1	Additive for strong teeth; erosion of natural deposits; fertilizer and aluminum factories.
Lead (ppb) <i>AL: 15 (90% of samples tested must be <15 ppb)</i>	2004	90% of samples < 7.0	1 out of 30 samples tested > 15 ppb	Corrosion of household plumbing systems; erosion of natural deposits.
Copper (ppm) <i>AL: 1.3 (90% of samples tested must be <1.3 ppm)</i>	2004	90% of samples < 0.67	0 out of 30 samples tested > 1.3 ppm	Corrosion of household plumbing systems; erosion of natural deposits.
Sodium (ppm) <i>No established EPA limits</i>	2004	6.1	—	Erosion of natural deposits.
Sulfate (ppm) <i>No established EPA limits</i>	2004	19	—	Erosion of natural deposits.
Radon (pCi/L) <i>Limit not yet established</i>	2004	644	618-670	Erosion of natural deposits.
Alpha Emitters (pCi/L) <i>MCL: 15.4; MCLG: 0</i>	2003	3.9	—	Erosion of natural deposits.
Total Trihalomethanes (ppb) <i>MCL: 80; MCLG: 0</i>	2004	11.13	7.7-15.6	By-product of drinking water disinfection.
Barium (ppm) <i>MCL: 2.0; MCLG: 2.0</i>	2004	0.08	—	Discharge of drilling wastes, metal refineries and erosion of natural deposits.
Combined Radium (pCi/L) <i>MCL: 5.4; MCLG: 0</i>	2003	0.29	—	Erosion of natural deposits.
Haloacetic Acid (HAA5) (ppb) <i>MCL:60 MCLG:0</i>	2004	4.2	1.2-4.2	By-product of drinking water disinfection.
Chlorine (ppm) <i>MRDL: 4 MRDLG:4</i>	2004	0.71	0.1-0.9	Water additive used to control microbes.

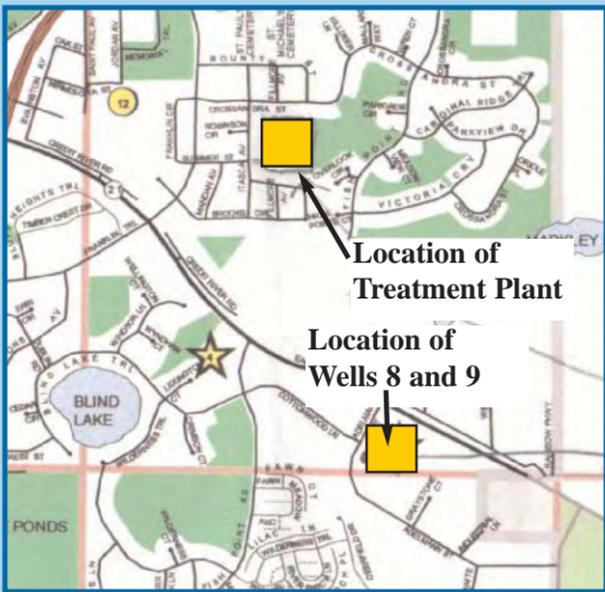
*Annual monitoring is not required for all substances. For this reason, results in the table are for when the substance was last analyzed and detected, which may have been prior to 2004.

Units of Measurement: Abbreviations

ppm: parts per million, or milligrams per liter **ppb:** parts per billion, or micrograms per liter
pCi/L: picocuries per liter, a measure of radioactivity **ND:** Not Detected



What You Should Know About the Prior Lake Water Supply System



Keep your transmitter accessible and free of obstructions



Remember

Remember to keep the radio transmitter in your home (a gray box about 4" square, located near the water meter) accessible and free of obstructions. If the receiver is unable to detect a signal, City staff will have to visit your home and correct the problem.



Water Conservation

Over-depletion of our water supply resources is a real threat. Remember that the City of Prior Lake observes an odd/even sprinkling restriction, in conjunction with an 11:00 a.m. to 5:00 p.m. daily ban effective May 1 through September 1. You can save water and have a green lawn by following a few wise-use water tips:

If your grass springs back when you step on it, it doesn't need watering.

If it rains an inch or more, wait at least five days to water again.

Use a sprinkler that delivers large drops, rather than a fine mist.

Mow your grass to a length of 2 to 3", and let the clippings lie on the ground. This shades the soil to prevent evaporation.

Sod Watering Permits

New sod watering permits are available at the maintenance center at 17073 Adelman St. SE. or by contacting the maintenance center at 952-440-9675. The permits are only available if you have installed new sod, seeding or landscaping and must be inspected by maintenance personnel prior to being allowed. This permit is only good for thirty days which allows watering everyday excluding the hours of 11am to 5pm.

The Laboratory Tests

Your water is thoroughly tested as it is pumped from the ground and from locations throughout the city. Contaminants that may be present in source water are divided into five basic testing categories:

Microorganisms, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can occur naturally or come from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from agriculture, urban stormwater runoff, and residential uses.

Organic chemicals, including synthetic and volatile organic chemicals, which are industrial and petroleum process by-products and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, which can occur naturally or result from oil and gas production and mining.

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).

What You Need to Know about Drinking Water Regulations

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (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 that must provide the same protection for public health.

Contaminant Information from EPA

Some people may be more vulnerable to contaminants found 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/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Radon

Radon is a radioactive gas which is naturally occurring in some groundwater. It poses a lung cancer risk when gas is released from water into air (as occurs during showering, bathing, or washing dishes or clothes) and a stomach cancer risk when it is ingested. Because radon in indoor air poses a much greater health risk than radon in drinking water, EPA is assessing two limits for drinking water. One limit is an Alternative Maximum Contaminant Level (AMCL) of 4000 pCi/L. It will apply to states that have adopted an Indoor Air Program, which compels citizens, homeowners, schools and communities to reduce the radon threat from indoor air. The second limit, which will apply to states without an indoor air program, may be set at 300 pCi/L. Minnesota plans to adopt an Indoor Air Program once the Radon Rule is finalized.

Source Water Testing

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and 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 humans. Water from the wells is thoroughly tested for contaminants like these, and lab test results for Prior Lake water are listed on the reverse side of this report.

Aesthetic Water Quality

Not only is the water tested for regulated contaminants, we also monitor for parameters important to water quality. Use this information when selecting and adjusting home treatment devices:

pH	7.2	
Total Hardness	330 ppm	19.3 grains/gal
Calcium	210 ppm	12.3 grains/gal
Magnesium	120 ppm	7.0 grains/gal
Iron	0.10 ppm	0.006 grains/gal
Manganese	0.074 ppm	0.004 grains/gal



New Water Improvements in Prior Lake

The City has been planning on constructing a Water Treatment Plant (WTP) for a number of years on land it acquired long ago in the Brookville Hills area adjacent to Wells 3, 4 and 7. The WTP planning and design will begin in the fall of 2005, the construction will begin in the spring of 2006, and the completion of the plant is scheduled for early in 2008. The WTP will remove iron and manganese from the water pumped from the City wells.

The City is also planning on additional wells to keep up with increased demand for water. Currently, a test well is being drilled. If successful, two new wells will be constructed. Proposed Well No. 8 is to pump from the Jordan aquifer and proposed Well No. 9 from the FIG aquifer. Both wells are planned on being completed by the summer of 2006. Additional wells are being planned in the recently annexed areas with the completion of a new Comprehensive Potable Water System Plan.



Vulnerability Assessments

Prior Lake is making efforts to protect your water source. To reduce the vulnerability to drinking water supplies, the city has added chain link fencing around wells, locks on hydrants and increased lighting to all well structures as pictured above. If you have more questions about the vulnerability of Prior Lake water contact the Water Superintendent at 952-440-9675.

Prior Lake Water is Groundwater

All Water delivered to residents is groundwater. The City operates five wells, ranging in depth from 345 to 640 feet deep. Four of these wells draw water from the Jordan Sandstone Aquifer. The fifth well taps into the Franconia-Ironton-Galesville aquifer, another sandstone formation that can produce high-capacity wells.

The Minnesota Department of Health has determined that one or more sources of your drinking water is susceptible to contamination. If you wish to obtain the entire source water assessment regarding your drinking water, please call 651-215-0800 during normal business hours. Also, you can view it online at www.health.state.mn.us/divs/eh/water/swp/swa.