

2017 Drinking Water Report

Translations for this report

This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.

Información importante. Si no la entiende, haga que alguien se la traduzca ahora.

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Gabaasii kun odeeffanno barbachisa wa'ee bisaan dhugaatii qaba. Akkaa isinii turjumaa'uu gaafadhaa yokaan nama afaan keessan dubbatuu dubbisaa.

В этом сообщении содержится важная информация о воде, которую вы пьёте. Попросите кого-нибудь перевести для вас это сообщение или поговорите с человеком, который понимает его содержание.

Warbixintan waxay wadataa macluumaad muhiim ah ee la xiriira biyaha aad cabtid. Cid ha kuu tarjunto ama la hadl cid fahmaysa.



The City of St. Louis Park is issuing the results of monitoring done on its drinking water for the period from January 1 to December 31, 2017. The purpose of this report is to advance consumers' understanding of drinking water and heighten awareness of the need to protect precious water resources.



Making safe drinking water

Your drinking water comes from a groundwater source: nine wells, ranging from 485 to 1095 feet deep, that draw water from the Prairie Du Chien-Jordan, Mt. Simon, Jordan and Jordan-St. Lawrence aquifers.

St. Louis Park works hard to provide safe and reliable drinking water that meets federal and state water quality requirements. The purpose of this report is to provide information on drinking water and tips on how to protect precious water resources.

Contact Jay Hall, utilities superintendent, at 952.924.2557 or jhall@stlouispark.org if you have questions about St. Louis Park's drinking water. You can also ask for information about how you can take part in decisions that may affect water quality.

The EPA sets safe drinking water standards. These standards limit the amounts of specific contaminants allowed in drinking water and ensure 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 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 at 1.800.426.4791.

Abbreviations key

AL – Action level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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.

Level 1 assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.

Level 2 assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in the water system on multiple occasions.

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.

NTU – Nephelometric Turbidity Units: A measure of the cloudiness of the water (turbidity).

pCi/l – picocuries per liter: A measure of radioactivity.

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 ($\mu\text{g/l}$).

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 (mg/l).

PWSID – Public Water System Identification

TT – Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

Variances and exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Learn more about your drinking water

Drinking water sources: Minnesota's primary drinking water sources are groundwater and surface water. Groundwater is the water found in aquifers beneath the surface of the land. Groundwater supplies 75 percent of Minnesota's drinking water. Surface water is the water in lakes, rivers and streams above the surface of the land. Surface water supplies 25 percent of Minnesota's drinking water.

Contaminants can get in drinking water sources from the natural environment and from people's daily activities. There are five 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.
- **Pesticides and herbicides** are chemicals used to reduce or kill unwanted plants and pests. Sources include agriculture, urban stormwater runoff, and commercial and residential properties.
- **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 St. Louis Park 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:

- www.health.state.mn.us/divs/eh/water/swp/swa/
- Call 651.201.4700 or 1.800.818.9318 between 8 a.m. and 4:30 p.m., Monday through Friday.



St. Louis Park monitoring results

This report contains the City of St. Louis Park monitoring results from January 1 to December 31, 2017.

The city works 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.

Visit www.health.state.mn.us/divs/eh/water/factsheet/com/sampling.html to learn about the Minnesota Department of Health's Basics of Monitoring and Testing of Drinking Water in Minnesota.

How to read the water quality data tables

The tables below show the contaminants found last year or the most recent time we sampled for that contaminant. They also show the levels of those contaminants and the EPA'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 or 1.800.818.9318 between 8 a.m. and 4:30 p.m., Monday through Friday.

CONTAMINANTS RELATED TO DISINFECTION — Tested in drinking water.

Substance (Date, if sampled in previous year)	EPA's limit (MCL or MRDL)	EPA's ideal goal (MCLG or MRDLG)	Highest average or highest single test result	Range of detected test results	Violation	Typical sources
Total Trihalomethanes (TTHMs)	80 ppb	N/A	2.7 ppb	2.40 - 2.70 ppb	NO	By-product of drinking water disinfection.
Total Haloacetic Acids* (HAA)	60 ppb	N/A	2.4 ppb	0.00 - 2.40 ppb	NO	By-product of drinking water disinfection.
Total Chlorine	4.0 ppm	4.0 ppm	0.58 ppm	0.39 - 1.02 ppm	NO	Water additive used to control microbes.

*Total HAA refers to HAA5

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. The developing fetus and therefore pregnant women may also be more vulnerable to contaminants in drinking water. These people or their caregivers should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (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 at 1.800.426.4791.



INORGANIC & ORGANIC CONTAMINANTS — Tested in drinking water.

Contaminant (Date, if sampled in previous year)	EPA's limit (MCL)	EPA's ideal goal (MCLG)	Highest average or highest single test result	Range of detected test results	Violation	Typical sources
Nitrate	10.4 ppm	10 ppm	0.15 ppm	0.00 - 0.15 ppm	NO	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Barium	2 ppm	2 ppm	0.19 ppm	N/A	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
trans-1,2-Dichloroethene (trans-1,2-dichloroethylene)	100 ppb	100 ppb	0.83 ppb	0.00 - 0.57 ppb	NO	Discharge from chemical and agricultural chemical factories.
cis-1,2-Dichloroethene (cis-1,2-dichloroethylene)	70 ppb	70 ppb	16 ppb	0.00 - 2.20 ppb	NO	Discharge from chemical and agricultural chemical factories.
Gross Alpha	15.4 pCi/l	0 pCi/l	8.1 pC/l	3.4 - 7.9 pCi/l	NO	Erosion of natural deposits.
Combined Radium	5.4 pCi/l	0 pCi/l	4.4 pCi/l	1.3 - 4.4 pCi/l	NO	Erosion of natural deposits.

OTHER SUBSTANCES — Tested in drinking water.

Substance (Date, if sampled in previous year)	EPA's limit (MCL)	EPA's ideal goal (MCLG)	Highest average or highest single test result	Range of detected test results	Violation	Typical sources
*Fluoride	4.0 ppm	4.0 ppm	0.76 ppm	0.64 - 0.68 ppm	NO	Erosion of natural deposits; Water additive to promote strong teeth.

***Fluoride:** Fluoride is nature's cavity fighter, with small amounts present naturally in many drinking water sources. An overwhelming weight of credible, peer-reviewed, scientific evidence shows 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 a concentration between 0.5 to 1.5 parts per million (ppm), with an optimal fluoridation goal between 0.7 and 1.2 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.



LEAD AND COPPER — Tested at customer taps.

Contaminant (Date, if sampled in previous year)	EPA's action level	EPA's ideal goal (MCLG)	90% of results were less than	Number of homes with high levels	Violation	Typical sources
Copper (06/23/15)	90% of homes less than 1.3 ppm	0 ppm	0.09 ppm	0 out of 30	NO	Corrosion of household plumbing.
Lead (06/23/15)	90% of homes less than 15 ppb	0 ppb	1.1 ppb	0 out of 30	NO	Corrosion of household plumbing.

Lead in drinking water

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

Lead is rarely in a drinking water source, but it can get in your drinking water as it passes through lead service lines and your household plumbing system. St. Louis Park provides high-quality drinking water, but it can't control the plumbing materials used in private buildings.

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

1. **Let the water run** for 30-60 seconds before using it for drinking or cooking if the water has not been turned on in over six hours. 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.
2. **Use cold water** for drinking, making food and making baby formula. Hot water releases more lead from pipes than cold water.
3. **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 get a sample container and instructions on how to submit a sample; visit <https://apps.health.state.mn.us/eldo/public/accreditedlabs/labsearch.seam> for the Environmental Laboratory Accreditation Program. The Minnesota Department of Health can help you understand your test results.
4. **Treat your water** if a test shows your water has high levels of lead after you let the water run. Visit www.health.state.mn.us/divs/eh/water/factsheet/com/poulead.html to learn about water treatment units.

Learn more

- Visit www.health.state.mn.us/divs/eh/water/contaminants/lead.html#Protect to learn about lead in drinking water.
- Visit www.epa.gov/safewater/lead for basic information about lead in drinking water.
- Call the EPA Safe Drinking Water Hotline at 1.800.426.4791.
- Visit Lead Poisoning Prevention: Common Sources at www.health.state.mn.us/divs/eh/lead/sources.html to learn about how to reduce your contact with lead from sources other than your drinking water.



St. Louis Park water facts

- 1.79 billion gallons of water pumped from the ground in 2017.
- The highest daily amount of water pumped was 8.93 million gallons on June 9, 2017.

Conserve water

Sprinkling ordinance

To conserve water, St. Louis Park prohibits lawn sprinkling between noon and 6 p.m. In addition, all households and businesses must follow an odd/even schedule when sprinkling lawns. Properties that end with an odd number sprinkle on the odd-numbered days on the calendar; properties that end with an even number sprinkle on even-numbered days.

Additional conservation measures may be required during critical water shortages. These can include limiting watering to once every five days or banning all outdoor sprinkling. Should this situation arise, a public notice will be given.

Exceptions

New sod or seed, and newly planted shrubs, trees and landscaping are exempt from the odd/even schedule. Flower gardens are also exempt. Even in these circumstances, sprinkling must be done before noon or after 6 p.m.

Questions? Contact:

Jay Hall, utilities superintendent
St. Louis Park Municipal Service Center, 7305 Oxford St.
Phone: 952.924.2557 | Fax: 952.924.2560 | jhall@stlouispark.org



An update on Water Treatment Plant #4

Water Treatment Plant #4 (WTP4), located at 4701 41st St. W. in St. Louis Park, was taken out of service at the end of 2016 after aggressive, regular testing showed that while some volatile organic compounds (VOCs) were being reduced by an implemented short-term treatment solution at WTP4, others were increasing.

Prior to taking WTP4 out of service, the city had been working with the Minnesota Pollution Control Agency (MPCA) and a design consultant on upgrades to WTP4 to treat all identified contaminants, regardless of their source, down to published advisory levels. The upgrades include two air stripper units to treat the VOCs found in the water at this plant.

As of April 2018, about a third of the project upgrade is done with completion scheduled for fall 2018. Most of the work has taken place inside the building, including demolition of interior walls and pipes, construction of new interior walls and a contact tank and installation of steel framing for the mezzanine.

In the next few months, work will include installation of process piping and air strippers; the start of heating, ventilation and air conditioning (HVAC) and electrical work; construction of the exterior generator enclosure; and painting.

While the city was disappointed to discover an increase in certain VOCs at WTP4, it was considered good news that regular, aggressive testing of water across the system is doing just what it's supposed to do – protect the public health and ensure continued delivery of safe, quality drinking water to residents.

As evidenced by the drinking water data provided in this 2017 Drinking Water Report, testing by the Minnesota Department of Health confirms that City of St. Louis Park water is safe to drink and meets all drinking water standards set by the EPA to be in compliance with the Safe Drinking Water Act.

Visit www.stlouispark.org for more information about WTP4 or to view past drinking water reports.

