Spring Grove 2021 Drinking Water Report

Making Safe Drinking Water Your drinking water comes from a group

Your drinking water comes from a groundwater source: two wells ranging from 608 to 959 feet deep, that draw water from the Wonewoc Sandstone and Jordan aquifers.

Spring Grove 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 john sylling, Director of Public Utilities, at (507) 498-3297 or utilities@springgrovenm. com if you have questions about Spring Grove'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 and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Spring Grove Monitoring Results
This report contains our monitoring results from January 1 to December 31, 2021.
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).

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

We sample for some contaminants less than once a year because their levels in water are not deexpected 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.

Some contaminants are monitored regularly throughout the year, and rolling (or moving) annual averages are used to manage compliance. Because of this averaging, there are times where the Range of Detected Test Results for the calendar year is lower than the Highest Average or which the previous calendar year.

Highest Single Test Result, because it occurred in the previous calendar year.

- 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.

 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 (µg/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.

Contaminant (Date, if sampled in previous year)	8118	I B		[##[i]	Young	Typical Sources
Lead (08/21/20)	0 ppb	90% of homes less than 15 ppb	1.8 ppb	0 out of	N	Carrosion of household plumbing.
Copper (08/21/20)	0 ppm	90% of homes	0.24 ppm	0 out of	8	Corrosion of household plumbing.

Combined Radium (2018)	Trichloroethylene (TCE)	Bariun	Nitrate	Contaminant (Date, Highest EPA's EPA's Average or Range of If sampled in Goal Limit Highest Detected previous year) (MCLG) (MCL) Single Test Test Result
0 pC//	0 ppb	.2 ppm	10 ppm	3213 6213
5.4	5 ppb	2 ppm	B 12	E E B
0.5 pCI/I	0.1 ppb	0.04 ppm	3.7 ppm	Average of Highest Result
N/A	N/A	0.0244 - 0.0430 ppm	3.50 - 3.70 ppm	Test Constitution of the C
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Erosion of natural deposits.	Discharge from metal degreasing sites and other factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Typical Sources

Total Chlorine	Trihalomethanes (TTHMs)	Substance (Date, if sampled in previous year)	THE PERSON NAMED IN COLUMN
4.0 ppm	N/A	EPA's Ideal Geal (MCLG or MRDLG)	AND DESCRIPTION OF THE PARTY OF
4.0 ppm	80 ppb	A FRANCE PARKS	THE OWNER WHEN
1.08 ppm	1.5 ppb	Highest Average or Highest Single Test Result	THE PROPERTY OF THE PARTY OF TH
0.89 - 1.13 ppm	N/A	Range of Detected Results	wing mover.
Ö	Š	3 8	
Water additive used to control microbes.	By-product of drinking water disinfection.	Typical Sources	

Fluoride 4.0 ppm	Substance EPA's (Date, if ideal Goal sampled in (MCLG)
a P &	
0.79 ppm	Highest Average or Highest Single Test Result
0.74 - 0.82 ppm	Range of Detected Test Results
Š	» Violatio
Erosion of natural deposits; Water additive to promote strong teeth.	Typical Sources

Potential Health Effects and Corrective Actions (If Applicable) Fluoride: Fluoride is nature's cavity fighter, with small amounts present naturally in many drink

sources. There is an overwhelming weight of credible, peer-reviewed, scient reduces tooth decay and cavities in children and adults, even when there is a sources, such as fluoride toothpaste and mouth rinses. Since studies show the drinking water benefit public health, municipal community water systems as water to an optimal concentration between 0.5 to 0.9 parts per million (ppm levels below 2.0 ppm are not expected to increase the risk of a cosmetic con Monitoring Results – Unregulated Substances

In addition to testing drinking water for contaminants regulated under the S. all amounts present naturally in many drinking water e, peer-reviewed, scientific evidence that fluoridation ts, even when there is availability of fluoride from other s. Since studies show that optimal fluoride levels in nunity water systems adjust the level of fluoride in the parts per million (ppm) to protect your teeth. Fluoride prisk of a cosmetic condition known as enamel fluorosis.

contaminants regulated under the Safe Drinking Water Act, we as that are not regulated. Unregulated contaminants do not have legal

limits for drinking water.

Detection alone of a regulated or unregulated contaminant should not cause concern. The meaning 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.

The following table shows the unregulated contaminants we detected last year, as well as human-health based guidance values for comparison, where available. The comparison values are based only on potential health impacts and do not consider our ability to measure contaminants at very low concentrations or the cost and technology of prevention and/or treatment. They may be set at levels that are costly, challenging, or impossible for water systems to meet (for example, large-scale treatment technology may not exist for a given

A person drinking water with a contaminant at or below the comparison value would be at little or 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. Because these contaminants are unregulated, EPA and MDH require no particular action based on detection of an unregulated contaminant. We are notifying you of the unregulated contaminants we have detected as a public education opportunity.

More information is available on MDH's A-Z List of Contaminants in Water (https://www.health.state.mn.us/communities/environment/water/contaminant Monitoring Rule (UCMR 4) (https://www.health.state.mn.us/communities/environment/water/cont/ucmr4.html).

Sulfate	Sodium	Contaminant	UNREGULATED CON
500 ppm	20 ppm	Comparison Value	VTAMINANTS - Tested in drie
18 ppm	5.81 ppm	Highest Average Result or Highest Single Test Result	nking water.
16.80 - 18.00 ppm	2.38 - 5.81 ppm	Range of Detected Test Results	

*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. 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 Ctyphosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Learn More about Your 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.

discharges.

• Pesticides and herbicides are chemicals used to reduce or kill unwanted plants and pests.

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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

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 Minnesota Department of Health provides information about your drinking water source(s) in a source water assessment, including:
How Spring Grove is protecting your drinking water sources);
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.nun.us/conumunities/environment/water/swp/swa) or call 651-201-4700 or 1-800-818-9318 between 8:00 a.m. and 4:30 p.m., Monday through Friday.

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 six years, 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. Spring Grove is responsible for providing high quality drinking water, but it cannot 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 run been turned on in over six hours. If you have a lead service line, you may need to let the water run