

2023 Annual Drinking Water Quality Report

For The

Seeley Lake Water District

P.O. Box 503, Seeley Lake, MT. 59868

(406) 677-2559

<https://www.seeleylakewaterdistrict.org>

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the **quality of the water** and services we deliver to you every day. **Our constant goal is to provide you with a safe and dependable drinking water.** We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. **We are committed to ensuring the quality of your water.** Our water source is Seeley Lake.

If you have any questions about this report or concerning your water utility, please contact **Vincent Chappell at 406 677-2559 or 406 210-3760.** We want you, our valued customers, to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at 5:30 pm on the last Thursday of each month, at the Water District facility on Rice Ridge Road. The current elected members of the Water Board are as follows:

Charlie Hahn - President

Todd Johnson - Vice President

Kris Martin - Director

Chris Lorentz - Director

Freda Rathbun - Director

If you have questions about the Water District, any one of the Board members, Vincent Chappell, our manager, or our employees will be happy to answer your questions or direct you to someone who can answer them for you.

Seeley Lake Water District routinely monitors for constituents in your drinking water, following all Federal and State laws. The table on the following page shows the results of our monitoring for the period of January 1st to December 31st, 2022.

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 from human activity. The source water assessment report for your water system provides additional information on your source water's susceptibility to contamination. To access this report please go to: <https://deq.mt.gov/water/Programs/dw#accordion1-collapse2>

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 at (800) 426-4791.

Some of our data in the tables is more than one year old, since certain chemical contaminants are monitored less than once a year. **Our sampling complies with EPA and Montana State drinking water regulations.**

TEST RESULTS								
Contaminant	Violation Y/N	Sample Date	Highest Level Detected	Range Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Turbidity								
Turbidity	N	Daily	0.186	0.033-0.186	NTU	1.0	0.3 NTU	Soil runoff
Chlorine	N	Daily	0.68	0.02-0.68	PPM	4.0	4.0 PPM	Water additive used to control microbes.
Radioactive Contaminants								
Combined radium 226/228	N	9/28/20	1.9	1.9-1.9	pCi/1	0	5	Erosion of natural deposits
Inorganic Contaminants								
Barium	N	9/28/20	0.07	0.07-0.07	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	N	9/28/20	0.03	0.03-0.03	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen)	N	6/7/22	ND	ND	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Disinfection By-Products								
Haloacetic Acids (HAA5)	N	2022	4.1	0-4.1	ppb	<60	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	N	2022	2.2	0-2.2	ppb	<80	80	By-product of drinking water disinfection
Lead and Copper								
	Violation Y/N	Sample Date	MCLG	Action Level (AL)	90 th Percentile	Sites Over AL	Units	Likely Source of Contamination
14. Copper	N	9/17/20	1.3	AL = 1.3	1.17	0	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
17. Lead	N	9/17/20	0	AL = 15	0.001	0	ppb	Corrosion of household plumbing systems, erosion of natural deposits

In this table, you will find many terms and abbreviations that you might not be familiar with. To help you better understand these terms we have provided the following definitions:

Lead and Copper Definitions:

****Action Level Goal** – The level of contaminant in drinking water below which there is no known or expected health risk. ALG’s allow for a margin of safety.

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

Definitions:

****Total Coliform.** Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.

***Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

***Total Organic Carbon (TOC)** – The percentage of TOC removal was measured each month and the system met all TOC removal requirements set, unless a violation is noted in the violation section.

****Turbidity:** The specified limit for our treatment process is 0.3 NTU's. Each month 95% of our measurements must be below this specified limit. This number represents the month with the lowest percentage of a sample meeting this limit. Our water system has met this requirement 100% of the time. Turbidity is a measure of cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

***Haloacetic Acids:** Total Haloacetic Acid is a by-product from our disinfection chlorine reacting with the natural organics in the water that we treat.

***Avg – Regulatory compliance with some MCL's** is based on a running annual average of monthly samples.

***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 our 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 our water system on multiple occasions.

***Maximum Contaminant Level or MCL-** The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

***Maximum Contaminant Level Goal or MCLG -** The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

***Maximum Residual Disinfectant Level or MRDL –** 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.

***Maximum Residual Disinfectant Level Goal or MRDLG -**The level of a drinking water disinfectant below which there is no known expected health risk. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

***Treatment Technique (TT) -** A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

***mrem –** millirems per year (a measure of radiation absorbed by the body)

***ppb –** micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water

***ppm –** milligrams per liter or parts per million – or one ounce in 7,350 gallons of water

***ND –** no detect

Note: Lead - If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Seeley Lake Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and the steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>. . **At this time, we have no test sites that are in violation for lead.**

Contaminants that may be present in source water include:

- o Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- o 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.
- o Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- o 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.
- o Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activity.

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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 for 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 Safe Drinking Water Hotline (800-426-4791).

The Seeley Lake Water District wants you to know that your drinking water is safe to drink and we will continue to work hard to keep it that way!

The Water District is doing everything that we can to protect our water system for you the customer, to ensure safe, clean drinking water. If you, the customer, see anyone or know of anyone tampering with equipment, valves, fire hydrants, buildings, or unlawfully using water or equipment please contact us at 406 677-2559, or contact 911, so that we can deter any damage or potential contamination of our water system.

Over the last year and a half, we have installed all new water meters system wide. Along with our normal daily operations, this was quite a task. Everyone worked with us and made it very easy to get everything done. Thank you!!! We are now working towards installing a tower collector system. This will enable the water meter readings to be sent each day to the tower and then to the cloud. Not only will this assist in finding water leaks considerably faster, but will also be much more efficient.

This year we had water main lines and water service lines that froze. This past winter was very similar to the winter of 2019. Once again there was frost in the ground as deep as 7 feet. Most water lines should be installed at minimum 6-7 feet deep. The main causes for water lines to freeze is deep frost and the lack of water movement in the pipes. Our community has changed over the years and we have less full-time residents using the water system. This means that there is less water flowing through our pipes. As the air temperature drops it freezes the ground. The warming and freezing spells force the frost deeper. Ultimately this will cause the water lines to freeze. When main lines and service lines freeze it is very difficult and expensive to fix. We are doing everything that we can to keep the water flowing, but we cannot stop mother nature. The best thing you can do is to trickle your water. Just a little trickle of water from February 1st through the middle of April will help keep the water lines flowing. The district posts warnings in town and on our website. Please try to remember to trickle your water. Thank you.

Another issue is the fire hydrants getting plowed in by snow plows. As the winter progresses, it becomes very hard to see the fire hydrants. We have installed flags on the hydrants to help mark them. However, each year snow plows continue to plow the snow up on or even totally obscuring the fire hydrants. This is a huge safety issue for our community. Seeley Lake seems to have its fair share of structure fires. If the fire department cannot see the fire hydrants, it will take them even longer to put the fire out. We have half a dozen customers that shovel the fire hydrant closest to their home, to allow access. I am very proud of those customers and want to thank them. Please don't plow snow on or around the hydrants! If possible, keep the fire hydrant closest to your home free of snow. This is for your own protection.

The Water District is trying to make it easier for all customers to receive information with regards to the district. We utilize our website to distribute information. We also have an online bill pay section on our website. The link to the web site is <https://www.seeleylakewaterdistrict.org>

We encourage anyone to stop by and take a tour of our water plant, so that you can see and understand what we do. If you would like to tour the water plant, please call ahead to allow us to set aside some time for the tour. If there is anything that we can do to serve you better please give me, Vincent Chappell, a call at 406 677-2559 or in the case of an emergency call 406 210-3760.

We at the Seeley Lake Water District work around the clock to provide top quality water to every tap. We ask that all of our customers help us protect our water source, Seeley Lake, which is the heart of our community, our way of life, and our children's future. Thank you for allowing us to continue providing your family with clean, quality water this year.

Every year we evaluate our income & expenses and then formulate the yearly budget accordingly. A financial review is performed annually to verify those numbers. JCCS reviewed the Water District financials for January - December 2022.

This Annual Quality Water Report **will be posted on our website and at the library for all** water customers to review. A copy of this report is available by calling or stopping by the Seeley Lake Water District.