

Big Sioux Community Water System, Inc. Annual Drinking Water Quality Report

JANUARY 1, 2021 — DECEMBER 31, 2021

This report is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies.

WATER SOURCE

We serve more than 5,337 customers an average of 2,175,000 gallons of water per day. Our water is groundwater that we produce from local wells. The state has performed an assessment of our source water and they have determined that the relative susceptibility rating for the Big Sioux Community Water System public water supply system is medium.

For more information about your water and information on opportunities to participate in public meetings, call 605-997-2098 and ask for |odi |ohanson.

ADDITIONAL INFORMATION

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 can pick up substances resulting from the presence of animals or from human activity.

CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic chemicals or compounds, such as salts and metals, which can be naturally occurring or result from urban storm-water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm-water runoff, and residential
- Organic chemicals or compounds, 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, septic systems and agriculture.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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.

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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 can be obtained by calling the Environment Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 Big Sioux Community Water

System public water supply system 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 steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

DETECTED CONTAMINANTS

The attached table lists all the drinking water contaminants that we detected

during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2021 The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

2021 Table of Detected Contaminants For Big Sioux Community Water System (EPA ID 0429)

The Big Sloux Community Water System public water system purchases 10% of their water from Minnehaha Community Water Corp (0432).

Substance	90% Level	Test Sites >	Date Tested	Highest Level Allowed (AL)	ldeal Goal	Units	Major Source of Contaminant
rr	0.1	v	00/10/21	7112 1.3	Ü	ppiii	wood preservatives.
Lead	1	0	06/16/21	AL=15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
				Highest			
	Highest			Level	Ideal		
	Level		Date	Allowed	Goal		
Substance	Detected	Range	Tested	(MCL)	(MCLG)	Units	Major Source of Contaminant
Antimony	0.48	ND - 0.48	08/10/21	6	6	ppb	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic *	1		11/01/21	10	0	ppb	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics
							production wastes.
Barium	0.009	0.025 - 0.009	08/10/21	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Barium *	0.026	0.025 - 0.026	11/01/21	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2.9	1.0 - 2.9	09/14/20	100	100	ppb	Discharge from steel and pulp mills; erosion of natural deposits.
Chromium *	0.37	0.21 - 0.37	11/01/21	100	100	ppb	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	0.77	0.45 - 0.77	11/01/21	4	<4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Fluoride *	0.76	0.53 - 0.76	10/11/21	4	<4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from
							fertilizer and aluminum factories.
Haloacetic Acids (RAA)	14.4		08/10/21	60	0	ppb	By-product of drinking water chlorination. Results are reported as a running annual average of test results.
Haloacetic Acids (RAA) *	15.7		08/12/21	60	0	ppb	By-product of drinking water chlorination. Results are reported as a running annual average of test results.
Nitrate (as Nitrogen)	3.9		11/04/21	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrate (as Nitrogen) *	0.8		06/07/21	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium	5.6	0.78 - 5.6	08/10/21	50	50	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge
							from mines.
Selenium *	0.86	0.81 - 0.86	11/01/21	50	50	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Total trihalomethanes (RAA)	29.1		08/10/21	80	0	ppb	By-product of drinking water chlorination. Results are reported as a running annual average of test results.

Please direct questions regarding this information to Mr. Jeff Carruthers with the Big Sioux Community Water System public water system at 605-997-2098
*Minnehaha Community Water Coproration (EPA ID 0432) test result

Terms & Abbreviations Used in Tables

Action Level (AL) — the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For Lead and Copper, 90% of the samples must be below the AL.

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

Maximum Contaminant Level Goal (MCLG) — 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.

Running Annual Average (RAA) — Compliance is calculated using the running annual average of samples from designated monitoring locations.

UNITS

ppb — parts per billion, or micrograms per liter (ug/l) **ppm** — parts per million, or milligrams per liter (mg/l)