

Annual Drinking Water Quality Report

Blue Sky Heights WUA

PWSID #MT0000030

5 Whitetail Lane
Clancy, MT 59634

We're very pleased to provide you with the annual Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is from the alluvium of the Prickly Pear.

If you have any questions about this report or concerning your water, please contact Stan Becker at (406)461-5763 or Leata English at (406)459-6988. They are our certified operators.

We routinely monitor for constituents in your drinking water according to Federal and State laws. The following table shows the results of any detects in our monitoring for the period of **January 1st to December 31st, 2022**. For constituents that are not monitored yearly, we have reviewed our records back to the last time the constituent was monitored.

We have monitored for lead and copper, and 90% or more of our samples have been in compliance with the Lead and Copper Rule

Parameter	Date	90th % value	Units	Action Level	# Sites Over AL	Source of Contamination
Lead	09/28/2020	1	ppb	15	0	Household plumbing
Copper	09/28/2020	0.06	ppm	1.3	0	Household plumbing

In the tables above and below you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Parts per billion (ppb) or Micrograms per liter (ug/l) - one part per billion corresponds to one minute in 2000 years or a single penny in \$10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

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

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

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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.

Maximum Contaminant Level Goal - The "Goal" (MCLG) is 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.

Picocuries per liter (pCi/L)-picocuries per liter is a measure of the radioactivity in water.

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 residual disinfection level goal or MRDLG: The level of a drinking water disinfection 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.

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.

TEST RESULTS

Contaminant	Violation Y/N	Sample Date	Highest Level Detected	Range	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants								
Nitrate + Nitrite as N	N	04/05/22	1.41	1.3-1.41	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Fluoride	N	12/19/22	0.2	0.2-0.2	ppm	4.0	4.0	Erosion of natural deposits.
Arsenic	N	12/19/22	1	1-1	ppb	0	10	Erosion of natural deposits.
Selenium	N	12/19/22	2	2-2	ppb	50	50	Discharge from petroleum and meta refineries; Erosion of natural deposits; Discharge from mines
Radioactive Contaminants								
Combined Radium	N	03/27/19	2.4	2.4-2.4	pCi/L	0	5	Erosion of natural deposits.
Gross Alpha	N	03/27/19	70	0-70	pCi/L	0	15	Erosion of natural deposits
Microbial Contaminants								
Parameter	Violation Y/N	Date	Highest number of positive samples in one month	Unit Measurement		MCLG	MCL	Likely Source of Contamination
Coliform Bacteria	N	Monthly	0	Present/Absent		0	1	Naturally present in environment

Violations: The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne disease caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches or other symptoms. They may pose a greater health risk for infants, young children. Our system received violation for failure to monitor during the periods 03/01/2022-03/31/2022 and 07/01/2022-07/31/2022. We failed to test our drinking water for the contaminant Total Coliform, E. Coli during the periods indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the periods indicated. However, subsequent testing for April and August did not show any contamination.

Copper: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Lead: Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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 City of Choteau 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 the 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>.

Arsenic: While your drinking water meets EPA's standard for Arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of Arsenic's possible health effects against the costs of removing Arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Selenium: Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation.

Fluoride: Blue Sky Heights' fluoride test result is 2.0 ppm. Although this is well below the MCL of 4.0 ppm we recommend children in their tooth developing years do not receive more fluoride from their dentist. If parents have further concerns, please contact your dentist.

Uranium- Some people who drink water containing uranium in excess of the MCL over many years have an increased risk of getting cancer and kidney toxicity.

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

Alpha Emitters: Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Combined Radium: Some people who drink water containing radium 226 and 228 in excess of the MCL over many years may have an increased risk of getting cancer.

All 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 the 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 at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791). We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

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This report was generated by Energy Laboratories, Inc – Helena, Montana- March 2023