

City of Rupert's Drinking Water Report

2018 Sampling Results

We provide quality drinking water that meets all federal and state requirements

During recent years we have sampled for many different chemicals and have found very little Contamination. Contamiantion is anything other than pure water. We sample total coliform bacteria as an indicator of microorganisms (bacteria, viruses and small creatures) that should not be present. The table below lists all the drinking water contaminants that we detected during the past calendar year or in our most recent tests as noted. 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 a health risk. More information about contaminants and potential health effects can be obtained by calling **(208) 436-9600** or U.S. Environmental Protection Agency's (EPA's) Safe Drinking Water Hotline (1-800-426-4791). EPA's website is www.epa.gov/safewater.

Terms and abbreviations

Maximun Contaminant Level Goal (MCLG): the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow a margin of safety.
Maximum Contaminant Level (MCL): 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.
Action Level (AL): the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Na: not applicable **nd:** not detectable at testing limit **ppm:** parts per million or milligrams per liter
Ppb: parts per billion or micrograms per liter **pCi/L** picocuries per liter (a measure of radiation).
Violations: Failure to monitor for Nitrate at Well #1 Well #2 and Well #6 in 2018

| Regulated | MCLG | MCL | OUR WATER | Range Low | Range High | Sample date | Viola-tion | Typical Source Of Contaminant |
|---------------------------------|---------|--------|---|-----------|------------|--------------------|------------|---|
| Alpha Radia-tion (pCi/L) | 0 | 15 | 0.0*well 1 1.3* well 2 .72* well 6 | | | 8/29/16 8/30/16 | No No | Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | 0.84 | | | 8/25/05 | No | Erosion of natural deposits |
| Arsenic (ppb) | 0 | 0.010 | 0.004 well 1 0.004 well 2 0.002 well6 | | | 7/25/11 | No | Erosion of natural deposits |
| Chlorine Residual | 4 MRDLG | 4 MRDL | 0.148** | 0.10 | 0.20 | 2018 | No | Water additive used to control microbes |
| Combined Radium 226-228 (pCi/L) | 0 | 5 | 2.7 well 1 2.9 well2 | | | 2016 | | Erosion of natural deposits |

*If the results of this sample had been above 15 pCi/L, our system would have been required to do additional testing for uranium. Because the results were below 15 pCi/L, no testing for uranium was Required
** Average: This is an average of all test taken in 2018

What Is Nitrate? Nitrate is a form of nitrogen that is essential for plant growth. It is widely used throughout Idaho, mostly as a fertilizer to promote plant growth. If too much fertilizer is applied, the excess that is not used up by crops, lawns, plants, and trees can be washed down through the soils by irrigation or precipitation and eventually reach ground water.

Where Does Nitrate Come From? Nitrate is the most widespread contaminant in Idaho's ground water, and also the most preventable. In addition to fertilizers, other sources of nitrate include septic systems, animal waste, and industrial and food processing waste. Improperly abandoned wells or older wells not meeting current well construction standards can act as a direct pathway for contaminants at the land surface to reach ground water. This is a concern because ground water supplies most of Idaho's drinking water.

Nitrate and Your Health The U.S. Environmental Protection Agency safe drinking water standard and the Idaho Ground Water Quality Standard for nitrate is 10 milligrams per liter (mg/L). The standards are set to ensure that drinking water is safe for human consumption. In the human digestive system, nitrate is converted to nitrite, which can interfere with the ability of red blood cells to carry oxygen to tissues in the body. The resulting oxygen deficiency can cause illness in infants under six months of age and under extremely rare instances, possibly death.

How Do I Know if My Water Is Safe for My Family? Public water systems are required to test water for contaminants and remove them with a treatment process before the water is delivered to customers. Private well owners however, are not required to test or treat water to remove contaminants. It is extremely important to have private well water tested, particularly if infants, pregnant or nursing mothers, or adults with chronic health problems will be drinking the water. Your local district health department can provide you with sampling instructions, sample bottles, and assistance in locating a certified laboratory in your area. District health departments are listed on the back of this brochure.

What if Nitrate Is Found in My Water? If test results show nitrate at a level greater than 10 mg/L (the safe drinking water standard), do not give the water to infants under six months old, either directly or mixed in formula. Use commercially bottled water. Boiling will not remove nitrate, and in fact will concentrate the nitrate through evaporation. Contact your local district health department or the Idaho Department of Environmental Quality for information about treatment options to remove nitrate from your well water



Drinking Water Report 2018

This is the **Annual Consumer Confidence Report (CCR)** on your drinking water system. The most recently required sampling results have been gathered to inform customers about their tap water. With this information, we hope you will learn more about your water and will help protect the water for future use.

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con Alguien que lo entienda bien.

Why are there contaminants in my drinking water?

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

Contaminants that may be present in source water before we treat it include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

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.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

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.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

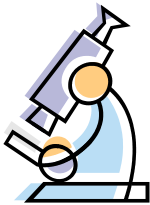


Is my water safe?

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. Local Water vigilantly safeguards its water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

Do I need to take special precautions?

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/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 Water Drinking Hotline (800-426-4791).



EPA ensures that tap water is safe to drink
By writing regulations that limits both natural and manmade contaminants. We follow both state and federal regulations. Interstate bottled water is regulated by the U.S. Food and Drug Administration.



Where does my water come from?
Your drinking water comes from ground Water from the Eastern Snake Plains Aquifer. We have three wells: Wells #1 And #2 are located downtown. Well #6 is located on the west side of town.



Source Water Assessment
The State of Idaho has completed this assessment plan for our wells which includes a map of where the water comes from, possible sources of contamination, and a review of the susceptibility of the source for contamination. This plan is available for public review.

Monitoring and reporting of compliance data violations
The City of Rupert had no significant violations.

Additional Information for 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. City Of Rupert 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>.

Monthly Meeting
2nd & 4th Tuesday
7:00 p.m.
City Hall



If you have any questions
Or in emergencies call:
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