

# **Wood Ridge HOA 2020 CCR**

## **(PWSID#MT0004220)**

### **Is my water safe?**

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

### **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).

### **Where does my water come from?**

Wood Ridge subdivision has a total of 51 lots. Of these 24 lot have been built on. Your subdivision has two wells and one pressure control house that has 7 - 119 gallon captive air tanks (pressure tanks). There is a meter at each well to monitor the usage of the wells and maintenance. Well(s) Pressure Control House still has a lot of condensation. Some type of ventilation should be added. There was maintenance done in the pressure control house replacing pressure tanks. There was a main break that was repaired just a few feet from well #1.

Well #1 (GWIC 188165 is located in the southeast corner of lot 11 along with the pressure control house. Well #1 is 360 feet deep, pumps about 140 to 150 gpm with a 15 hp submersible pump. The casing is 8" steel casing, is perforated between 236 and 353 feet below the top of the casing. The static water level is at about 161 feet below the top of the casing.

Well #2 (GWIC 200805) is located in the southeast corner of lot 9. Well #2 is 361 feet deep and pumps about 120 to 140 gpm with a 15 hp submersible pump. The casing is 6" steel and perforated between 337.5 and 357.5 feet below the top of the casing the static water level is 150 feet below the top of the casing.

### **Source water assessment and its availability**

All of Wood Ridge HOA sampling results and source water assessment information is on line at [www.deq.mt.gov/wqinfo/pws/reports.asp](http://www.deq.mt.gov/wqinfo/pws/reports.asp) and attached at the end of this report.

Wood Ridge HOA should consider addressing the following Sanitary Survey comments:

1. Adding an emergency generator that has automatic start upon loss of power. This would enable uninterrupted water service during periods of power loss. (Requested in 2015)
2. Installing a variable frequency drive for each well to help manage the water use during peak hourly demands.

Your drinking water is safe and meets federal and state requirements. If you have any questions about this report or concerns about your water, please contact Tina Malkuch at (406) 253-5301. Tina is the operator with 36 years of experience and is the owner of Safewater Testing simplified (STS). She attends all state required training sessions to meet continuing education credits as needed. The most recent courses attended were online with Montana Rural Water Systems. Jeri Miller, also a certified operator, is a contract employee that has worked at STS for 18 years. Her roll at STS not only includes office work, but to assist in testing as a back-up operator.

**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).

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: microbial contaminants, such as viruses and bacteria, that 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; and 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

### **How can I get involved?**

Wood Ridge HOA meets once annually and sends notices to you informing you where and when you can attend this meeting to discuss your concerns.

All homeowners should conserve water whenever possible. See Water Conservation Tips below.

### **Description of Water Treatment Process**

Your water if needed is treated by disinfection. Disinfection is only done after construction or maintenance of water mains. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and micro-organisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

## **Water Conservation Tips**

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit [www.epa.gov/watersense](http://www.epa.gov/watersense) for more information.

## **Source Water Protection Tips**

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.

### 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. Wood Ridge HOA 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>.

## Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

<u>Contaminants</u>	<u>MCLG</u> or <u>MRDLG</u>	<u>MCL</u> , TT, or <u>MRDL</u>	<u>Your</u> <u>Water</u>	<u>Range</u> <u>Low</u>   <u>High</u>		<u>Sample</u> <u>Date</u>	<u>Violation</u>	<u>Typical Source</u>
Inorganic Contaminants								
Arsenic (ppb)	0	10	0.001	0.001	0.001	2016	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Fluoride (ppm)	4	4	0.15	0.09	0.1	2019	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	2	1.97	2.02	2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Barium (ppm)	2	2	0.38	0.37	0.38	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
<b>Microbiological Contaminants</b>								
Fecal coliform/E. coli - in the distribution system (positive samples)	0	0	0	NA		2020	No	Human and animal fecal waste
<b>Radioactive Contaminants</b>								
Radium (combined 226/228) (pCi/L)	0	5	1.1	0	1.1	2016	No	Erosion of natural deposits
Gross alpha excluding radon & uranium (pCi/L)	0	15	4.1	4.1	8.7	2016		
Uranium (ug/L)	0	30	4	3	4	2016		
<b><u>Contaminants</u></b>	<b><u>MCLG</u></b>	<b><u>AL</u></b>	<b><u>90<sup>th</sup> Percentil</u></b>	<b><u>Sample Date</u></b>	<b><u># Samples Exceeding AL</u></b>	<b><u>Exceeds AL</u></b>	<b><u>Typical Source</u></b>	
<b>Inorganic Contaminants</b>								
Lead - action level at consumer taps (ppb)	0	15	2	2020	0	No	Corrosion of household plumbing systems; Erosion of natural deposits	
Copper - action level at consumer taps (ppm)	1.3	1.3	0.12	2020	0	No	Corrosion of household plumbing systems; Erosion of natural deposits	
<b>Violations</b>								
Revised Total Coliform Rule (RTCR) Violation Type: Failure test for Monthly Microbiological test. Violation Began 6/1/2020 Violation End 6/30/2020								
Failed to test drinking water for the contaminate during period indicated. Because of this failure, the quality of your water during this period. A sample was taken and submitted. A lab typo was made by omitting a hyphen causing the sample result not be log in with the state in the 10 day required time limit.								
<b>Unit Descriptions</b>								
<b>Term</b>			<b>Definition</b>					
ppm			ppm: parts per million, or milligrams per liter (mg/L)					
ppb			ppb: parts per billion, or micrograms per liter (µg/L)					
pCi/L			pCi/L: picocuries per liter (a measure of radioactivity)					
NA			NA: not applicable					
ND			ND: Not detected					
NR			NR: Monitoring not required, but recommended.					

<b>Important Drinking Water Definitions</b>	
<b>Term</b>	<b>Definition</b>
MCLG	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.
MCL	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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection 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.
MRDL	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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

Montana Department of Environmental Quality conducted a source water assessment of our system. This report provides additional information on the potential vulnerability of our wells to contamination. This report is available for review online at <http://svc.mt.gov/deq/dst/#/app/swp>. The report can be summarized in the following table:

### Significant Potential Contaminant Sources

Source	Contaminant	Hazard	Hazard Rating	Barriers	Susceptibility	Management
<i>Inventory Region</i>						
<b>Septic Systems</b>	Pathogens, nitrate (NO <sub>3</sub> )	Discharge of pathogens; failure leading to discharge of untreated septage.	Moderate	Depth to intake, confining layers	Low	Properly maintain septic tanks at scheduled intervals. Participate in public debates over water quality and local water districts. Promote advanced septic education.
<i>Other Potential Contaminant Sources, not rated significant</i>						
<b>USTs (?)</b>	VOCs	Leaching of VOCs to groundwater	Low	Depth to intake, confining layers	Very Low	Maintain water quality sampling schedule. Participate as a stakeholder over water quality and local water districts.

Our water system is committed to providing our customers with safe, pure water and we are pleased that our water meets or exceeds all established state and federal standards. Thank you for reviewing this report.

**For more information please contact:**

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