

## **Did You Know ??...**

### **Lead Contaminants**

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. We are 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 15 to 30 seconds or until it becomes cold or reaches a steady temperature 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>

### **Lead and Copper Inventory Information**

Rockingham County completed the initial lead and copper service line inventory in 2024 as required by the EPA. This inventory included the water service line material type for both the system and the public side. If the material was unable to be identified, the status was left as unknown, until further identification can be made. To access a copy of the service line inventory please contact Public Works at 540-564-3020 or visit the Public Works Office at 20 E Gay Street Harrisonburg, Virginia 22802. Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

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 animal activity, including human. Contaminants that may be present in source water include: (1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; (2) Inorganic contaminants, 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; (3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; (4) Organic chemical contaminants, including synthetic and volatile organic chemicals and pharmaceuticals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, sewage treatment plants and septic systems; (5) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities. To ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

All drinking water, including bottled drinking 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 can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).



## **A WATER QUALITY REPORT FOR THE WATER USERS OF RR Donnelley / Smith Creek Water System PWSID # 2165668**

In compliance with the Safe Drinking Water Act and as a service to our water users, Rockingham County presents this report, which summarizes our efforts to provide our water users with safe drinking water. This report covers the period from January 1, 2024, to December 31, 2024.

The quality of your drinking water meets all state and federal requirements administered by the Virginia Department of Health (VDH), Office of Drinking Water.

In order for you to get the most from this report we are providing the following list of terms and definitions:

ppb - parts per billion  
mg/L – milligrams per Liter  
ND-not detected

*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.

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

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

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

**Our Water Source**

The source of your drinking water is obtained from the City of Harrisonburg whose sources consist of a groundwater source at Silver Lake in Dayton and surface water sources at North River in Bridgewater and Dry River in Rawley Springs.

**Treatment**

Raw water is disinfected using chlorine, fluoridation and filtration.

**Microbial Contaminants**

Our water system performs monthly bacteriological monitoring to test for the presence of coliform bacteria, fecal coliform and E.coli. We are required to do 2 bacteriological samples per month.

Our sampling detected no fecal coliform positive results in the past twelve months.

**Lead and Copper Monitoring**

Date Last Sampled for Lead:	September 2023
90 <sup>th</sup> Percentile for Lead:	2.57 ppb
Violation:	No
Range of Results	<2ppb-7.55ppb
Number of Sites Exceeding Lead Action Level:	0 out of 10

The action level for lead is 15ppb.

Date Last Sampled for Copper:	September 2023
90 <sup>th</sup> Percentile for Copper:	0.78 mg/L
Violation:	No
Range of Results	<20ppb-98.5ppb
Number of Sites Exceeding Lead Action Level:	0 out of 10

The action level for copper is 1.3 mg/L.

**Metals**

Required Sampling Frequency: Once every year

Date Last Sampled: June 2024

Barium 0.03 ppm

Likely source- Discharge of drilling wastes; discharge from metal refineries; Erosion from natural deposits.

**Halo acetic Acids (HAA5)**

Last Date Sampled: Quarterly 2024

15 ppb-51 ppb (range) Average 27 ppb No Violation

Likely source- By-product of drinking water chlorination. One sample taken out of range.

**Total Trihalomethanes (TTHM)**

Last Date Sampled: Quarterly 2024

12 ppb -76 ppb (range) Average 34 ppb No violation

Likely source- By-product of drinking water chlorination. One sample taken out of range.

**Chemical Monitoring**

**Note to our water users: The state requires us to monitor for certain contaminants less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data may be more than one year old.**

**Total Organic Carbon (TOC)**

16% to 20% Removal

No Violation

Source- Naturally present in the environment.

Fluoride 0.55-.69 mg/L Daily No Violation

Sodium 17.7 mg/L No Violation

Turbidity Likely source- Soil Runoff  TT= 0.3 NTU	NTU Maximum  0.01- 0.53mg/L	No violation All samples were < 0.26 NTU 100 % of the time Daily 2024
Chlorine	0.10- 1.60mg/L	No Violation Daily 2024
Nitrates Likely source- Fertilizer runoff, Leaching from septic tanks, seawater, erosion of natural deposits	1.48 ppm  Sample 2024	No violation

**Source Water Assessment.** A source water assessment for the City of Harrisonburg was completed by the VDH on May 24, 2002. This assessment determined that the City’s water supply may be susceptible to contamination because it is surface waters exposed to a wide array of contaminants at varying concentrations and changing hydrologic, hydraulic and atmospheric conditions that promote migration of contaminants from land use activities of concern within the assessment area. More specific information may be obtained by contacting the water system representative listed above.

*This report prepared by Rockingham County Public Works*

**Water from surface sources is treated to make it drinkable while groundwater may or may not have any treatment. 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).**

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**General Information**

**The Board of Supervisors normally meet every month on the second Wednesday at 3:00 pm and the fourth Wednesday at 6:00 pm. in the Board of Supervisors’ Meeting Room located in the Rockingham County Administration Center, 20 E Gay St, Harrisonburg, VA.**

**If you have questions or comments about this report or want more information, please feel free to contact:**

**Philip Rhodes  
Director of Public Works  
540-564-3020**

or

**VDH Office of Drinking Water  
Lexington Regional Office  
540-463-7136**