



## 2022 Annual Drinking Water Quality Report PWSID # 5031050

- *Meets All Drinking Water Standards*
  - *Is continuously tested.*
  - *Is safe to drink.*

The Town of Altavista is pleased to provide you with our Annual Drinking Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you throughout calendar year **2022**. Our goal is, and always has been, to provide citizens a safe and dependable supply of drinking water.

Laboratory testing indicates that our drinking water is safe and meets Federal and State requirements. This report shows our water quality and what it means. If you have any questions about this report or concerning your water quality, please contact Polly Brown at the Altavista Water Treatment Plant at (434) 324-7251 during the hours of 7:00 a.m. to 3:00 p.m., Monday through Friday. We want our customers to be informed about their water system. For more information, please attend any of our regularly scheduled council meetings. They are held the second Tuesday of every month at 6:00 p.m. in the council chambers in the J.R. Rudy Burgess Town Hall located at 510 Seventh Street. Also, the fourth Tuesday the council work session is held at the same location at 5:00 pm.

A source water assessment of our system has been conducted by the Virginia Department of Health. The water sources were determined to be of high susceptibility to contamination using the criteria developed by the state in its approved Source Water Assessment Program. The assessment report consists of maps showing the source water assessment area, an inventory of known land use activities of concern, and documentation of any known contamination within the last 5 years. More information about the Source Water Assessment Program may be obtained by contacting Virginia Department of Health Danville Virginia 434-836-8416 or contacting the Altavista Water Plant at 434-324-7251.

Our water sources are:

**Staunton River:** Surface water source; treated and filtered at our Municipal Water Treatment Plant.

**Reed Creek:** Surface water source; treated and filtered at our Municipal Water Treatment Plant.

**McMinnis Spring:** Ground water source; disinfected, fluoridated, and pumped directly into the distribution system.

**Reynolds Spring:** Ground water source; disinfected, fluoridated, and pumped directly into the distribution system.

**Campbell County Utilities and Service Authority:** Emergency connection. **(20,700,900 Gallons Purchased in 2022)** (A copy of CCUSA CCR can be obtained from Town Hall, 510 7<sup>th</sup> Street Altavista VA)

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. 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, which are byproducts of industrial processes and petroleum production,

and can also come from gas stations, urban storm water runoff, and septic systems; (5) 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 regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

The Town of Altavista routinely monitors for contaminants in your drinking water according to Federal and State laws. The following tables show the results of monitoring for the Town of Altavista water systems during the period of January 1 to December 31, **2022**. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of our data, though representative, are more than one-year-old; therefore, their test dates are provided in each table.

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 Town of Altavista 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 15 to 30 seconds or until it becomes cold and reaches a steady temperature before using water for drinking or cooking. Please note that the results from testing for lead are well below the established allowable levels. 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>

**Turbidity** is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality.

However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, and diarrhea and associated headaches.

**Nitrate-Nitrate.** 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 in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

**Barium.** Some people who drink water-containing barium in excess of the Maximum Contaminant Level over many years could experience an increase in their blood pressure.

**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.

**Fluoride.** Some people who drink water-containing fluoride in excess of the Maximum Contaminant Level over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the Maximum Contaminant Level or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.

**Chlorine.** Water Additive used for disinfection. Some people who use drinking water containing chlorine well in excess of the Maximum Residual Disinfectant Level could experience irritating effects to their eyes and nose. Some people who drink water-containing chlorine well in excess of the Maximum Residual Disinfectant Level could experience stomach discomfort.

**Total Trihalomethanes (TTHM) & Haloacetic Acids HAA5** The levels of Trihalomethanes (TTHM) and Halo acetic acids (HAA5) are both by-products of using chlorine for disinfection and both contaminants are measured at two location. The PMCL for TTHM is 80 micrograms per liter (ug/l or ppb) and the PMCL for HAA5 is 60 micrograms per liter or ppb. Compliance with the PMCL is based on a running annual average LRAA (using 4 quarters) of the quarterly samples collected and the water supply did not exceed the drinking water limits on that basis. TTHMs are formed when trace amounts of naturally occurring organic compounds in the raw water source combine with chlorine that is used to disinfect the treated water, all locations do not have the same levels of TTHMs. Higher levels are expected in the areas with the highest residence time (generally the furthest points in the system) and during warmer months of the year. Some people who drink water containing Trihalomethanes and Halo acetic Acids in excess of the Primary Maximum Contaminant Level over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. The water system will continue to monitor for disinfection by-products. We intend to maintain compliance with the drinking water contaminants,

**Alpha Radiation-pCi/l.** 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 Maximum Contaminant Level over many years may have an increased risk of getting cancer.

**Radiological Combined Radium.** Containing radium 226 or 228 in excess of the Maximum Contaminant Level over many years may have an increased risk of getting cancer.

In the following tables of contaminants for the Town of Altavista, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions:

**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.

High turbidity can hinder the effectiveness of disinfectants Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality.

**Parts per billion (ppb) or Micrograms per liter** – One part per billion corresponds to one minute in 2000 years, or a single penny in \$10,000,000.

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

**Nephelometric Turbidity Unit (NTU)** - Nephelometric turbidity unit is a measure of the cloudiness of water. Turbidity is monitored because it is a good indicator of the effectiveness of our filtration system.

**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 required process intended to reduce the level of a contaminant in drinking water.

**Maximum Contaminant Level Goal (MCLG)**-the “Goal” 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.

**Maximum Contaminant Level (MCL)** - The “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. PMCL and SMCL are primary and secondary contaminant levels respectfully.

**Non-detects (ND)** – Laboratory analysis indicates that the constituent is not present.

**Not Applicable (N/A)** - Does not apply.

< - Less than designated number

**Maximum Residual Disinfectant Level Goal or MRDLG** – The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLG does not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Maximum Residual Disinfectant Level (MRDL)** – The highest level of a disinfectant allowed in drinking water.

**LRAA – Locational Running Annual Average** – Average of the most recent quarterly results and the three prior quarters of the disinfection by-product result at the designated individual compliance sample sites

**TOWN OF ALTAVISTA WATER TREATMENT PLANT AND SPRINGS —2022**

Regulated Contaminants							
Contaminant-Unit of Measurement	Testing Frequency or Sample Date	Level Detected	Range of Detection	MCL	MCLG	Typical Source of Contamination	Violation
Fluoride - ppm	Tested Daily	0.69	.13-1.9	4	4	Water additive Which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories	No
Nitrate-Nitrite ppm (as Nitrogen)	November, 2022	0.16	ND-.016	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage: Erosion of natural deposits	No
Copper -ppm	July, 2020	.36 90th percentile	ND – 0.364 0 of 20 samples Exceeded AL	AL = 1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives	No
Lead - ppb	July, 2020	< 2.3 90th Percentile	ND - .44 1 of 20 samples Exceeded AL	AL = 15	0	Corrosion of household plumbing systems	No
Barium	October 2022	0.029	-	2	2	Discharge of drilling waste: discharge from metal refineries: erosion of natural deposits	No
Turbidity - NTU	Tested Continuously at Water Plant	0.07 100% Less than .30	.016 - .118	TT= 1 MAX TT=< 0.3 in 95% of monthly samples	N/A	Soil Runoff	No
Gross Alpha - pCi/l	April, 2017	0.85	-	15	0	Erosion of Natural Deposits	No
Combined Radium - pCi/l	April, 2017	<1.5	-	5	0	Erosion of Natural Deposits	No
Chlorine - ppm	Continuously at Water Plant and Distribution System	Highest Level 2.20	.23-2.20	MDRL 4	MDRLG4	Water Additives used for disinfection	No
Total Organic Carbon (TOC) -ppm Removal Ratio	Tested Monthly	12-month Lowest Ratio 1.00	1.0-1.52	TT Ratio ≥ 1.0 Or Alternate Compliance	N/A	Naturally present in the environment	No
Site #1 Exxon		LRRR					
Total Trihalomethanes - ppb (TTHM)	Tested Quarterly	53	37-86	80	N/A	By-products of drinking water disinfection	No
Halo acetic Acids -ppb (HAA5)	Tested Quarterly	30	11-50	60	N/A	By-products of drinking water disinfection	No
Site #2 Chimney Ridge		LRRR					
Total Trihalomethanes - ppb (TTHM)	Tested Quarterly	25	12-60	80	N/A	By-products of drinking water disinfection	No
Halo acetic Acids -ppb (HAA5)	Tested Quarterly	30	11-47	60	N/A	By-products of drinking water disinfection	No
Unregulated Contaminants	UCMR4 2019					Available upon request	

**Though not regulated, the Town of Altavista tests for sodium. For 2022 the sodium level was 13.2 ppm**

“We are pleased to report to you that there were no detections of total or fecal coliforms in the monthly samples collected during calendar year 2022.”

Source Water Protection is a voluntary program in Virginia. Proposed source water protection strategies are not mandated by state or federal regulations. Proposed commitments and schedules by waterworks’ representatives are subject to change. Protection of sources which supply public drinking water is of vital importance to the residents of the Town of Altavista, the Town of Hurt and all surrounding areas. The water supply represents a valuable resource and investment which, if it were to become polluted, could negatively impact public health and would be expensive to restore or replace. Reducing or preventing chemical and microbiological contamination of sourcewaters may allow public waterworks to avoid costly treatments and minimize monitoring requirements.

The EPA has determined that your water IS SAFE at these levels. 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. To ensure that tap water is safe to drink, the Department of Health and EPA prescribe regulations that limit the concentrations of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Department of Agriculture regulations establish limits for contaminants in bottled water that 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 EPA’s Safe Drinking Water Hotline (1-800-426-4791).

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 microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

The Altavista Water Department works around the clock to provide top quality water to every tap. 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.

In our continuing efforts to maintain a safe and dependable water supply, it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

The Town of Altavista also provides water to the Town of Hurt. The Town of Hurt purchased **31,870,400** gallons in the year **2022**, part of which Hurt provides to the Grit community

We appreciate your support and understanding concerning water system issues.

The report this year, will not be posted in the local newspaper and will not be mailed or hand delivered, however a copy can be obtained by contacting the Altavista Water Treatment at (434) 324-7251 or by contacting the J.R Rudy Burgess Town Hall at 510 Seventh Street between the hours of 8:15 am and 5:00 pm. Monday thru Friday. It can also be accessed by the following link\_ [www.altavistava.gov/CCR22.pdf](http://www.altavistava.gov/CCR22.pdf)

Water is a basic and essential need of every living creature and Altavista’s water resources play a vital role in the water we drink and use to support life and contribute to Altavista’s wellbeing and Prosperity. It is imperative that we increased awareness of the importance of conserving our natural resources in the interest of our health and economic growth. The Town of Altavista is committed to educating our citizens on the importance of water conservation. For more information on conservation please call the number below.

Please call your Water Department office at (434) 324-7251 if you have questions.