

Buchanan County has a moderate risk profile. Manganese is the primary concern, driven by geological sources. Contamination is often invisible — testing is the only way to confirm your well's safety.

N/A  
HOUSEHOLDS ON PRIVATE WELLS

Varies  
PRIMARY AQUIFER TYPE

**MODERATE**  
OVERALL RISK LEVEL

**YOUR TOP WATER QUALITY RISKS**

CONTAMINANT	HOW COMMON	RISK LEVEL	SOURCE & CONTEXT
<b>Manganese*</b>	~94% above aesthetic limit	Moderate	Geological — Found in reducing aquifer zones alongside iron
<b>Sulfate*</b>	~18% above aesthetic limit	Moderate	Geological — Natural dissolution from gypsum and sulfate minerals
<b>Chloride*</b>	~2% above aesthetic limit	Low-Moderate	Road/Geological — Road salt application and natural mineral deposits
<b>Uranium</b>	~100% of wells	Low-Moderate	Geological — Naturally occurring in granitic and sedimentary bedrock
<b>Fluoride</b>	~67% of wells	Low-Moderate	Geological — Naturally elevated in some deep or volcanic aquifers

\* Secondary standard — an aesthetic limit for taste, odor, or staining. Not a health-based EPA limit.

**WHAT TO DO NEXT**

- Order a water test.**  
Test for Manganese, Sulfate, Chloride, Uranium, coliform bacteria. Bacteria annually; others every 3–5 years.
- Get your free county report.**  
See full data, treatment options, and certified labs at <https://yourwaterreport.com/states/va/buchanan-county/>
- Upload your lab results.**  
We'll interpret them, flag anything above limits, and recommend next steps — free.

**KNOW YOUR WELL**

Well age / year drilled \_\_\_\_\_

Last water test date \_\_\_\_\_

Treatment systems installed \_\_\_\_\_

Well driller / service contact \_\_\_\_\_

**WHAT YOUR RESULTS MEAN**

Use this to interpret your lab report — match the contaminant to your result.

IF YOUR TEST SHOWS	WHAT IT MEANS	CONSIDER
<b>Bacteria detected</b>	Immediate concern	Shock chlorination; add UV system
<b>Manganese &gt; 0.05 mg/L</b>	Aesthetic + health concern at high levels	Oxidation + filtration system
<b>Uranium &gt; 30 µg/L</b>	EPA limit exceeded — kidney risk	Reverse osmosis or ion exchange
<b>Fluoride &gt; 4 mg/L</b>	EPA limit exceeded — skeletal risk	RO filter or activated alumina

**WHO SHOULD USE THIS**

- Homeowners on private wells — not covered by public water testing
- Home buyers doing due diligence before closing
- Families with infants, elderly, or immunocompromised members
- Anyone who hasn't tested their well in the past 3 years

**LOCAL RESOURCES**

**Full county report**  
<https://yourwaterreport.com/states/va/buchanan-county/>

Free personalized well water report at <https://yourwaterreport.com/states/va/buchanan-county/>

Data: EPA ECHO · USGS NWIS · Water Quality Portal · U.S. Census ACS  
For informational purposes only. Contact a licensed professional for testing and treatment.