

Buckingham County has a moderate risk profile. Radon is detected in ~100% of wells, 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>Radont</b>    | ~100% of wells             | <b>Advisory</b>     | <b>Geological</b> — Radioactive gas dissolved from uranium-bearing rock         |
| <b>Iron*</b>     | ~46% above aesthetic limit | <b>Moderate</b>     | <b>Geological</b> — Common in glacial and alluvial aquifers; staining and taste |
| <b>Chloride*</b> | ~100% of wells             | <b>Low-Moderate</b> | <b>Road/Geological</b> — Road salt application and natural mineral deposits     |
| <b>Sulfate*</b>  | ~100% of wells             | <b>Low-Moderate</b> | <b>Geological</b> — Natural dissolution from gypsum and sulfate minerals        |
| <b>Uranium</b>   | ~88% of wells              | <b>Low-Moderate</b> | <b>Geological</b> — Naturally occurring in granitic and sedimentary bedrock     |

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

† No finalized EPA primary MCL. Figure shows detection frequency, not regulatory exceedance.

**WHAT TO DO NEXT**

- Order a water test.**  
Test for Radon, Iron, Chloride, Sulfate, 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/buckingham-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>      | <b>Immediate concern</b>                           | Shock chlorination; add UV system |
| <b>Radon &gt; 4,000 pCi/L</b> | <b>EPA proposed limit; also affects indoor air</b> | Aeration system; test indoor air  |
| <b>Iron &gt; 0.3 mg/L</b>     | <b>Staining, taste — aesthetic issue</b>           | Oxidizing iron filter             |
| <b>Uranium &gt; 30 µg/L</b>   | <b>EPA limit exceeded — kidney risk</b>            | Reverse osmosis or ion exchange   |

**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/buckingham-county/>

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