

Lake County has a moderate risk profile. Manganese is detected in ~75% of wells, driven by geological sources. Contamination is often invisible — testing is the only way to confirm your well's safety.

1%

HOUSEHOLDS ON PRIVATE WELLS

Varies

PRIMARY AQUIFER TYPE

MODERATE

OVERALL RISK LEVEL

YOUR TOP WATER QUALITY RISKS

| CONTAMINANT | HOW COMMON                 | RISK LEVEL   | SOURCE & CONTEXT   |
|-------------|----------------------------|--------------|--|
| Manganese*  | ~75% of wells              | Moderate     | Geological — Found in reducing aquifer zones alongside iron          |
| Lead        | ~60% above limit           | High         | Infrastructure — Older well casing materials and household plumbing  |
| Chloride*   | ~47% above aesthetic limit | Moderate     | Road/Geological — Road salt application and natural mineral deposits |
| Sulfate*    | ~9% above aesthetic limit  | Moderate     | Geological — Natural dissolution from gypsum and sulfate minerals    |
| Arsenic     | ~67% of wells              | Low-Moderate | Geological — Naturally dissolves from bedrock and glacial sediment   |

\* 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, Lead, 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/oh/lake-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                                    |
|-----------------------|---|---|
| Bacteria detected     | Immediate concern                         | Shock chlorination; add UV system           |
| Manganese > 0.05 mg/L | Aesthetic + health concern at high levels | Oxidation + filtration system               |
| Lead > 15 µg/L        | EPA action level exceeded                 | RO filter; inspect well casing              |
| Arsenic > 10 µg/L     | EPA limit exceeded — chronic cancer risk  | Reverse osmosis or activated alumina filter |

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

**Drinking Water | Brookside Laboratories, Inc.**  
<https://www.blinc.com/AVAILABLE-ENVIRONMENTAL-TESTS>

**Full county report**  
<https://yourwaterreport.com/states/oh/lake-county/>

Free personalized well water report at <https://yourwaterreport.com/states/oh/lake-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.