



When should I have my well water tested?

- ★ At least once a year for Coliforms and nitrates
- ★ When a neighboring well becomes contaminated
- ★ If the odor, color, or taste of the water changes
- ★ If a chemical spill occurs on or near the property
- ★ If your drain field shows signs of failure
- ★ When unexplained illnesses occur in the home
- ★ If a pregnant woman or infant lives in the home

What contaminants should be tested?

A few suggestions would be the following:

- ★ Coliform bacteria (Total, and/or *E. coli*)
- ★ Nitrate and Nitrite
- ★ Dissolved metals (Lead, Copper, etc.)
- ★ Volatile Organic Compounds (VOCs)
- ★ Hydrogen sulfide (Sulfur)

What are the dangers of contaminated water?

- ★ Bacteria, viruses, parasites and other microorganisms can cause a variety of illnesses. Nausea and diarrhea are symptoms of such contamination.
- ★ Nitrates may occur naturally in groundwater or may be introduced by human activities. They pose deadly risks to infants and pregnant women as high levels cause Blue Baby Syndrome.
- ★ Heavy metals are not often found naturally in wells, but if your pipes contain lead or copper they can deteriorate over time and pose toxic threats.
- ★ VOCs can enter groundwater by spill or migration from other sources, such as gasoline stations, and they vary in toxicity.

For additional information, please contact us at Greenway Engineering.

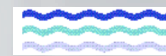


GREENWAY ENGINEERING
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Water and Wastewater Laboratory Services for Residents



Greenway Engineering



ENVIRONMENTAL SERVICES
151 WINDY HILL LANE
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Certification #: VA00155 (Total Coliform, *E. coli*) in Drinking Water



Laboratory Services



Greenway Engineering can now perform water quality tests in our new "Wet Lab."

There are many threats to the quality of the water we drink. Often water contamination goes unnoticed until an illness occurs or it becomes evident by sight, smell, or taste. Pollutants may remain hidden in our water as many are odorless, tasteless, and unable to be seen with the naked eye.

Those who are served by public water and sewer systems are better protected than those served by groundwater sources such as a well or spring. Residents who are not served by municipal sources should have their water tested frequently to determine if and when contamination occurs.

Greenway Engineering can help you to determine the quality of your drinking water, whether you are on a public or private system. We can send you the sampling containers necessary to test your water, or a trained Environmental Professional can visit your home to perform the sampling.

Greenway can also test wastewater effluent from Alternative Wastewater Disposal Systems (septic systems). Testing your effluent can provide an indication of how well your system is treating your waste.

Whether you are concerned about groundwater contamination, the life of your system, or you are conscientiously concerned about your effect on the environment, Greenway is here to help.

For more information, please contact us at 540.662.4185 or visit www.greenwayeng.com

Drinking Water

- Total Coliform
- *Escherichia coli* (E. coli)
- pH
- Alkalinity
- Acidity
- Hardness
- Turbidity
- Color
- Bromide
- Chlorine Residual
- Fluoride
- Nitrate (NO₃)
- Nitrite (NO₂)
- Total Dissolved Solids (TDS)
- Calcium
- Magnesium
- Dissolved metals (Lead, Iron, Copper, etc.)
- Arsenic
- Mercury
- Phenols
- Polychlorinated biphenyls (PCBs)
- Pesticides and Herbicides
- Volatile Organic Compounds (VOCs)

Many additional tests are available. Please call for information regarding additional tests and pricing.

Wastewater

- Biochemical Oxygen Demand (BOD₅)
- Carbonaceous Biochemical Oxygen Demand (CBOD)
- Chemical Oxygen Demand (COD)
- Total Suspended Solids (TSS)
- Volatile Suspended Solids (VSS)
- Total Kjehldahl Nitrogen (TKN)
- Ammonia Nitrogen (NH₃)
- Nitrate (NO₃)
- Nitrite (NO₂)
- Ortho-Phosphate
- Total Phosphorus
- Oil and Grease
- pH
- Alkalinity
- Total Chlorine Residual
- Free Chlorine Residual
- Fecal Coliform
- *Escherichia Coli* (E. coli) (P/A, MPN)
- Total Coliform (P/A, MPN)
- Dissolved metals

Many additional tests are available. Please call for information regarding additional tests and pricing.