



EWS, Inc. / Environmental Water Systems

**For Complete and Independent Well-Water Testing
Please contact:**



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APL, Inc. is an independent, compliant, and certified testing facility offering complete well water testing and analysis. APL, Inc. has created a complete test for well water, including microbiological, inorganics, organics and water balance at a very reasonable cost. The kit is shipped to the consumer with simple instructions. Once the testing is performed the kit is shipped overnight (included in the cost) to preserve the samples and properly test the water. Turnaround time is 10 working days with reported results, in an easy to read format, via mail, fax and/or e-mail.

APL, Inc. is an EPA Certified Lab # wi 01082
APL, Inc. is an ISO 9000 Certified Lab



All consumers and general information visit:

www.ewswater.com

Coordinate your well water information with the
“Guide for the Private Well Owner”

found in Service Guides and within other sections, areas and discussions on our web sites.

Resource for contractors and all technical information visit our pdf library:

www.ewswater.com/techandspec.html

Neither APL, Inc. nor EWS, Inc. are affiliated in any manner.



Mandatory Microbiological Drinking Water Standards

Coliform Bacteria “Safe Water Test”

(Included in Package)

Coliform bacteria or “Potability” testing measures possible harmful bacteria in your water. This test is recommended for all wells at least on an annual basis by the Environmental Protection Agency. APL provides you with the sterile sampling bottle & preservative, as well as detailed sampling instructions.

Mandatory Primary Drinking Water Standards

Nitrate + Nitrite (Annual Test)

(Included in Package)

An important addition to the your water test kit, which we perform in accordance with the Safe Drinking Water Act are the analysis for $\text{NO}_3 + \text{NO}_2$. These compounds cause electrolyte imbalances and are essential for homes with an infant under six months of age. The EPA has established a primary drinking water standard of 10 mg/L for these parameters in water.

Electrical Conductance (EC) (Annual Test)

(Included in Package)

Electrical conductivity (EC) measures the soluble salt concentration in mmhos/cm. The EC should not exceed 0.78.

Lead

(Included in Package)

Lead is a toxic metal that was used in older water pipes in some homes. As water stands in the pipes, the lead will slowly dissolve into the water. The water sampled for a lead test must be a “first draw” or the water first out of the pipe, which should be at least six hours prior to the last run of the faucet.

Fluoride

(Included in Package)

Fluoride is added to water by some municipalities to encourage healthy teeth in children and young adults. The EPA has established a primary drinking water standard of 4.0 mg/L for fluoride. This test will allow you do discover the amounts of fluoride your water contains.

Mercury

(Included in Package)

A toxic liquid metal that can easily be stored in human tissue if absorbed. The maximum contaminant level designated by the EPA is 0.002 mg/L. Our chemists can determine if your water is safe and under the harmful limit.

Arsenic

(Included in Package)

Arsenic is more common than one may imagine. It is a natural element found below the Earth’s surface. If your well has a crack in it, there is a possibility of it becoming contaminated. The effects of arsenic are similar to those of mercury. Sample bottles and instructions are included. The EPA limit for arsenic in drinking water is 10 ug/L. (Micro-grams/Liter or parts per billion). A very small amount.



Mandatory Secondary Drinking Water Standards

- Sodium** (Included in Package)
Sodium can be a major concern for people with circulatory ailments and critical for low sodium diets. APL will test for this element in this package and our chemists can detect it done to .16 parts per million.
- Chloride** (Included in Package)
This test will determine the amount of chloride that is in your water. We can detect down to .3 parts per million. Chloride can have an effect on the taste of your water.
- Sulfate** (Included in Package)
Our lab can detect Sulfates in your water down to .1 mg/L or .1 parts per million.
- Iron** (Included in Package)
The EPA has established a secondary drinking water standard of 0.30 mg/L for Iron. The secondary drinking water standards were designed for aesthetic purposes (i.e. taste, odor, color, etc.)
- Manganese** (Included in Package)
The EPA has established a secondary drinking water standard of 0.05 mg/L for Manganese. Just like Iron, it may cause rusty water, stains, deposits, and affect water's taste, but it is not a health hazard.
- Iron/Sulfur Bacteria** \$25.00ea. (Optional)
Although iron and sulfur bacteria do not present health threats, these two types of bacteria can make water smell and taste bad. They also plug and corrode plumbing equipment. A sterile bottle is required for collection, and is a highly recommended option with this test package.

Aesthetic Drinking Water Standards

- pH** (Included in Package)
A pH test kit is also included with this test kit. Acceptable pH range is between 6.8 and 8.2, best results should be between 7.2 – 7.6. Too low water pH is acidic and corrosive, too high pH is basic and chalky.
- Alkalinity** (Included in Package)
This is a good test for when the household plumbing contains lead, objectionable taste or smell are indicators.
- Total Hardness** (Included in Package)
Water hardness can be very frustrating. When problems arise with hard water, any surface the water comes into contact with can be affected. A perfect example of this build-up is on drains and faucets. Our Total Hardness test is a good measure of how much naturally found calcium & magnesium are in your water. Hardness concentrations greater than 35 grains/gallon are considered high and softening the water should be considered. With this specific test, the result can determine exactly where you want to be.
- Total Dissolved Solids** (Included in Package)
Water containing more than 500 mg/l total dissolved solids is not recommended for human consumption.

***Please note:**

- Expected turn around time of results is 10 working days.**
- This water test package is for screening purposes only.**
- Additional and individual testing is also available per your needs. Please view the "Pick List" or call the lab with any questions regarding testing.**