

Center for the Management, Utilization, and Protection of Water Resources
Environmental Quality Laboratory
Box 5033, Room 426 Prescott Hall, 1020 Stadium Drive
Tennessee Technological University
Cookeville, TN 38505
<http://www.tntech.edu/wrc/analytical-services/>
(931) 372-3538

Water testing available for homeowners:

Option 1: Basic water chemistry - \$100.00

pH, conductivity, turbidity, total coliform and *e. coli*, minerals (calcium, copper, iron, magnesium, manganese, potassium, sodium, zinc), hardness, IC scan (nitrate, nitrite, chloride, fluoride, sulfate)

Option 2: Lead analysis - \$35.00 (+\$10 digestion fee per batch of samples)

Option 3: Bacterial analysis - \$30.00

Total coliform, *E. coli*

Other analyses are available; contact the Water Center Lab for information.

Sample collection instructions:

For bacterial analysis: Bacterial samples are accepted Monday through Thursday, 8:00am - 3:00pm, in Prescott Hall, Room 426. **Samples are not accepted on Fridays.** Contact Phillip Burr with any questions at (931) 372-3538.

You can purchase a bottle of drinking water from any store. The standard size is usually 16.9oz (500mL) of water. You will simply pour out all of the drinking water and refill it with your sample at the time of sampling. Special care must be taken when collecting a sample for microbial analysis. This analysis is very sensitive to contamination and interference, such as airborne molds and bacteria. The container is certified by the producer to be sterile and should not be opened until the sample is to be taken. **DO NOT** use a bottle from which you have previously drunk!

When the sample is taken from a faucet, the aerator screen should be removed prior to sampling, if possible. Turn the faucet on and let it run for about thirty seconds. Open the drinking water bottle, pour out the contents, and while keeping your hands as much out of the way as possible, hold the container under the water stream and fill it. Re-cap the bottle. Keep the sample bottles cold in a cooler with ice packs or on ice. They **MUST BE** transported to the lab as soon as possible after collection.

For lead analysis: Limit the use of water from the tap to be tested overnight and then collect the first catch from the faucet in the morning. Fill a clean glass jar (pint or quart size). Place plastic wrap over the mouth of the jar before sealing with a metal lid.

For all other analyses: Simply fill another bottle in the same manner as for bacteria testing and transport both containers to the lab ASAP. They **MUST** be delivered to the lab within 6 hours of collection.

Directions to the Water Center Laboratory, 1020 Stadium Dr. Cookeville, TN.

From Interstate 40, take Exit 286 and go north on Willow Avenue for 2.8 miles. Turn **RIGHT** (at Pizza Hut) onto West 7th Street. Continue a short distance (0.2 miles) and take the **second LEFT** onto **Stadium Drive**. At the second stop sign, a parking spot for our customers will be immediately on your left, in the corner of the lot. There is a sign designating the spot for Water Center Visitors. Prescott Hall is diagonally across the intersection. The Water Center lab sample receiving area is on the 4th Floor, Room 426.