

Fayetteville Public Utilities Water Quality Report 2011



**Fayetteville
Public Utilities**

Electric • Water/Sewer • Natural Gas • Cable/Internet/Digital Phone

408 College Street, West

Fayetteville, TN 37334

Phone: (931) 433-1522

Fax: (931) 433-0646

www.fpu-tn.com

<http://twitter.com/FPUTN>

Notes from Elk River Chart

1 *100% of our samples were below the turbidity limit of 0.30 NTU.

2 *During the most recent round of Lead and Copper testing, only 1 out of 30 households sampled contained concentrations exceeding the action level.

3 *While your drinking water meets EPA's standard for trihalomethanes, it does contain low levels. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

4 *We have met all treatment technique requirements for Total Organic Carbon removal.

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Water Quality Data

Is my drinking water safe?

Yes, our water meets all of Environmental Protection Agency's (EPA) health standards. We have conducted numerous tests for over 75 contaminants that may be in drinking water. As you'll see in the charts included in this report, we only detected 12 of these contaminants. We found all of these contaminants at safe levels.

What is the source of my water?

Your main source of water is surface water that comes from the Elk River. We also have an emergency secondary source that is ground water under the direct influence of surface water called the Teal Hollow Springs. Our goal is to protect our water from contaminants, and we are working with the State to determine the vulnerability of our water source to **potential** contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to potential contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The Elk River source was rated as low susceptibility to potential contamination and Teal Hollow is moderately susceptible.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings, and the overall TDEC report to EPA can be viewed online at <http://www.tn.gov/environment/dws/dwassess.shtml> or you may contact the Water System to obtain copies of specific assessments.

Why are there contaminants in my water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Este informe contiene informacion muy importante. Traduscalo o hable con alguien que lo entienda bien.

For more information about your drinking water, please call David Posey at (931) 433-1522, extension 322.

How can I get involved?

The Fayetteville Public Utilities Board meets on the fourth Wednesday of each month at 8:00 a.m. at the main FPU office. Meetings are open to the public and customers are welcome to address questions and comments to the board.

Is our water system meeting other rules that govern our operations?

The State and EPA require us to test and report on our water on a regular basis to ensure its safety. We have met all of these requirements. Results of unregulated contaminant analysis are available upon request.

Other Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and the Tennessee Department of Environment and Conservation prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Fayetteville Public Utilities' water treatment processes are designed to reduce any such substances to levels well below any health concern. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Lead in drinking water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. FPU is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Water Safety Security

Following the events of September 2001, we realize that our customers are concerned about the security of their drinking water. We urge the public to report any suspicious activities at any utility facilities, including treatment plants, pumping stations, tanks, fire hydrants, etc. to **(931) 433-1522**.

What does this chart mean?

- MCLG - Maximum Contaminant Level Goal, or the level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- MCL - Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.
- MRDL - Maximum Residual Disinfectant Level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.
- AL - Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- Parts per million (ppm) or Milligrams per liter (mg/l) - explained as a relation to time and money as one part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb) or Micrograms per liter - explained as a relation to time and money as one part billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- TT - Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

Elk River								
Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCGL	MCL	Likely Source of Contamination
Total Coliform Bacteria	No	< 2/month	0-1	2011		0	< 2 positive samples/mo.	Naturally present in the environment
Turbidity ¹	No	0.66	0.02-0.66	Daily	NTU	N/A	TT	Soil runoff
Barium	No	0.16		2011	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine	No	1.44 avg.	0.50-2.2	Daily	ppm		MRDL=4	Water additive used to control microbes
Copper	No	90th%=0.06		2011	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead ²	No	90th%=6.2		2011	ppb	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	No	0.92 avg.	0.81-1.0	Daily	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen)	No	0.71		2011	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Sodium	No	3.5		2011	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
TTHM ³ (Total Trihalomethanes)	No	41 avg.	16-83	quarterly samples	ppb	N/A	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	No	33 avg.	11-54	quarterly samples	ppb	N/A	60	By-product of drinking water disinfection
Total Organic Carbon ⁴	No	1.84 avg.	1.1-2.4	quarterly samples	ppm	N/A	TT	Naturally present in the environment

Please refer to page 4 for footnote description.