

2021

Water Quality Report

Tap Into Clean Water



**FAYETTEVILLE
PUBLIC UTILITIES**

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Water Quality Report for 2021

Is my drinking water safe?

Yes, we have conducted numerous tests for over 75 contaminants that may be in our drinking water. Fayetteville Public Utilities' (FPU) water meets all of the Environmental Protection Agency's (EPA) health standards.

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 Tennessee Department of Environment and Conservation (TDEC) to determine the vulnerability of our water source to potential contamination. 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 slightly susceptible 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 <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html>, or you may contact FPU to obtain copies of specific assessments and Wellhead Protection Plans.

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 EPA's Safe Drinking Water Hotline at 800-426-4791.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

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

How can I get involved?

The FPU Board of Directors 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?

TDEC and the EPA require FPU to test and report on our water on a regular basis to insure 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 storm water 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 storm water 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 storm water 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 TDEC prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. FPU's water treatment processes are designed to reduce any such substances to levels well below any health concern. The Food and Drug Administration 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 had 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 and the Centers of Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline at 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 system 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 Local Authorities (911) and FPU at 931-433-1522.

Water Quality Data

What does this chart mean?

- MCLG - Maximum Contaminant Level Goal or the level of a 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 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 1 minute in 2 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 per billion corresponds to 1 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.
- RTCR - Revised Total Coliform Rule. This rule went into effect on April 1, 2016 and replaces the MCL for total coliform with a Treatment Technique Trigger for a system assessment.
- 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	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (RTCR)	No	0	0-1	>= 10 samples/month		0	TT Trigger	Naturally present in the environment
E-coli Bacteria¹	No	0	0	>= 10 samples/month		0	See footnote ¹	Human or animal wastes
Turbidity²	No	0.64	0.02-0.09	Daily	NTU	N/A	TT	Soil runoff
Barium	No	0.0175		2020	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine	No	1.66 avg	0.48-2.23	Daily	ppm	4	MRDL=4	Water additive used to control microbes
Chlorine Dioxide	No	230	0-230	Daily	ppb	800	MRDL=800	Water additive used to control microbes
Chlorite	No	0.954	0.215-0.954	Daily	ppm	0.8	1.0	By-product of drinking water disinfection
Copper	No	90th % = 0.0588		2019	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead³	No	90th % = 0.500		2019	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Fluoride	No	0.599 avg.	0.511-0.655	Quarterly	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Nitrate (as Nitrogen)	No	0.615		2021	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks or sewage; erosion of natural deposits
Sodium	No	2.26		2021	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
Total Trihalomethanes (TTHM)	No	44.4 avg.	17.8-64.4	Quarterly	ppb	N/A	80	By-product of drinking water disinfection
Haloacetic Acids (HAA5)	No	43.0 avg.	15.7-63.4	Quarterly	ppb	N/A	60	By-product of drinking water disinfection.
Total Organic Carbon ⁴	No	1.07 avg.	0.913-1.20	Quarterly	ppm	N/A	TT	Naturally present in the environment.

1 * E. coli: A system is in compliance with the MCL for E. coli for samples unless any of the conditions identified in parts one through four, listed below, occur.

1. The system has an E. coli-positive repeat sample following a total coliform positive routine sample.
2. The system has a total coliform positive repeat sample following an E. coli-positive routine sample.
3. The system fails to take all required repeat samples following an E. coli-positive routine sample.
4. The system fails to test for E. coli when any repeat sample tests positive for total coliform.

2 * We met the treatment technique requirement for turbidity with 100% of our monthly samples below the turbidity limit of 0.30 NTU. Turbidity is a measurement of the cloudiness of the water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system.

3* During the most recent round of Lead and Copper testing of 30 households, none of the homes we sampled contained concentrations exceeding the action level.

4* We met the Treatment Technique requirement for Total Organic Carbon in 2021.

FLUSHING MEDICATIONS CONTAMINATES WATER SUPPLY

Flushing unused or expired medicines can be harmful to your drinking water. Proper disposal of unused or expired medication helps protect you and the environment. Keep medications out of Tennessee's waterways by disposing of them in a permanent pharmaceutical take-back bin. There are nearly 100 take-back bins located across the state, including one at the Lincoln County Sheriff's Department. To find a different location in the surrounding area, please visit: <http://tdeonline.tn.gov/rxtakeback/>.

