



Water - Essential for Life

Fulton Municipal Water System Water Quality Report for year 2017

KY0380149

P.O. Box 1350
Fulton, KY 42041
Public Meetings: City Hall, 101 Nelson Tripp Place
Meeting Dates and Time: 2nd & 4th Monday of each month 6:00 PM

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This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is

the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system. The source of our raw ground water for our system is the unconsolidated sands of the Clairborne Group in Fulton Co. Our water is classified as groundwater. An analysis of the overall susceptibility to contamination of our water supply indicates this susceptibility is moderate. There are a total of nine potential sources of contamination within the wellhead protection area. The sources of high impact include Highway 307 and a railroad line. Sources of low to moderate impact include a maintenance building, above ground storage tanks, small engine repair, auto repair, agricultural row crops and Highway 45. The completed source water susceptibility analysis report is available from the Purchase Area Development Office (270) 247-7171 located at 1002 Medical Drive, Mayfield, KY 42066. It is also available at the Kentucky Division of Water (502) 564-3410 located at 300 Sower Blvd., Frankfort, KY 40610. We ask all our customers to help protect our ground water sources, which are the heart of our community and our children's future.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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 drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:

Information About Lead:

Maximum Contaminant Level (MCL) - 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.

Maximum Contaminant Level Goal (MCLG) - 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.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). 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, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variance & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant 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. Your local public water system 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>.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Radioactive Contaminants							
Combined radium (pCi/L)	5	0	1.5	1.5 to 1.5	2015	No	Erosion of natural deposits
Inorganic Contaminants							
Barium [1010] (ppm)	2	2	0.009	0.009 to 0.009	2017	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 1	AL = 1.3	1.3	0.449 (90 th percentile)	0.0247 to 0.581	Sept-17	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	0.9	0.9 to 0.9	2017	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 1	AL = 15	0	0 (90 th percentile)	0 to 44	Sept-17	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	1.1	1.1 to 1.1	2017	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection Byproducts and Precursors							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.50 (highest average)	0.80 to 1.90	2017	No	Water additive used to control microbes.
HAA (ppb) [Haloacetic acids] (Individual Sites)	60	N/A	3 (locational average)	10 to 11 (range of individual sites)	2017	No	Byproduct of drinking water disinfection
TTHM (ppb) [total trihalomethanes] (Individual Sites)	80	N/A	2.25 (locational average)	9 to 9 (range of individual sites)	2017	No	Byproduct of drinking water disinfection.

Violation Number: 2018 - 9932310 / 7000 CONSUMER CONFIDENCE RULE

We received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. Description of Non Compliance: 401 KAR 8:075, Section 1 CONSUMER CONFIDENCE RULE The public water system failed to submit the Consumer Confidence Report (CCR) to Department for Environmental Protection. The system was required to distribute the CCR to the customers and submit a copy to the Department for Environmental Protection by July 1st. Comments: Calendar Year 2015's CCR was not distributed to the public until August 2016 and the KY DOW until January 2017. Distribution dates did not meet the Federal and State regulatory date of July 1st, annually. Detail this violation in the next CCR's violation statement list. Side note: The CCR certification seemed to reverse the dates and methods of distribution between the primary and secondary methods. Double check dates and methods used for primary (main method) and secondary (GFes) each year. At the time this violation was generated, the remedial measures have already been met in the Calendar Year 2016 CCR's violation statement list. No further action is needed at this time, other than to keep this NOV on record. There were no health effects due to these oversights. Remedial actions included detailing this NOV in the 2017 CCR.

This report will not be sent to individual customers. It will be available at City Hall upon request.

Maximum Contaminant Level (MCL's) are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, 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.