

Pike County Water Authority Table of Primary Drinking Water Contaminants

Table with columns: CONTAMINANT, MCL, AMOUNT DETECTED, MCL, JANUARY - DECEMBER 2021. Rows include Bacteriological (Total Coliform Bacteria), Inorganic (Uranium), Radionuclides (Gross Alpha Particle), Chemicals (Lead, Copper, Nickel, Manganese, etc.), and Radioactive (Radon-222, Radium-228).

Secondary Contaminants January - December 2021

Table with columns: Chloride, Iron, Copper, Lead, Manganese, Aluminum, Color, Odor, pH, Sodium, Total Alkalinity, Calcium, Magnesium, Total Hardness, Specific Conductance, Unregulated Contaminants, and Unregulated Contaminants (UICMR 4) 2019.

Table of Unregulated Contaminants with columns: CONTAMINANT, AVERAGE, MCL, Range of Detects, and Range of Detects. Lists various organic and inorganic compounds.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. This table provides a quick glance of any primary contaminant detections...

**PIKE COUNTY WATER
AUTHORITY**

**Annual Drinking Water Quality Report
January—December 2021**

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We utilize seven (7) groundwater wells. One Tuscaloosa aquifer and four (4) wells draw from the Ripley aquifer. The following wells are located at these locations: Carter Well US Hwy 29 South; the Orion Well County Road 7715; Monticello Well County Road 6636; Enon Well County Road 6631; Spring Hill Well County Road 2262; Crawley Well US Hwy 29 South and Mt. Carmel Well County Road 5520. The water we provide to our customers requires no specialized treatment. However, chlorine is added for disinfection purposes. We have a Source Water Protection Plan and a Well Head Protection Plan available at our office that provides more information such as potential sources of contamination. Also, a Source Water Assessment for the Monticello Well was completed in 2020. If you have any questions about this report or concerning your water utility, please contact Brandy Hand at 334-566-1933. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings held on the second & fourth Tuesday of each month, 5:30 PM, at 13102 US Hwy 231 Troy.

BOARD OF DIRECTORS
◆ Steve Carter *Chairman* ◆ Alfred Alloway ◆ Mike Meredith

The Pike County Water Authority routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2021. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

We at the Pike County Water Authority work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's.

FOR MORE INFORMATION CALL

Brandy Hand
Tel: 334-566-1933

WAIVER: Based on a study conducted by ADEMI with the approval of the EPA, a statewide water for the monitoring of Asbestos and Dioxin was issued. Thus, monitoring for these contaminants was not required.

PLAIN LANGUAGE DEFINITION

Non-Detects (ND) - Levels below method detection limits
Not Required (NR) - Laboratory analysis not required due to water regulation granted by the Environmental Protection Agency for the State of Alabama.
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 - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - 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) or Picograms per liter (picograms/l) - 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) - picocuries per liter is a measure of the radioactivity in water.
Millirems per year (mrem/yr) - measure of radiation absorbed by the body.
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.
Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
Threshold Odor Number (T.O.N.)- The greatest dilution of a sample with odor-free water that still yields a just-detectable odor.
Action Level - (AL) the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. **Treatment Technique (TT)** - (mandatory language) A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
Maximum Contaminant Level - (mandatory language) The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water.
Maximum Contaminant Level Goal - (mandatory language) The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MRLDs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
Maximum Residual Disinfectant Level or MRLD - 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.
Contaminants that may be present in source water include:
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 run-off, 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, storm water run-off, 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 run-off, and septic systems.
Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. A 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.
Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immunocompromised, such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or individuals with other immune system disorders, some elderly, and infants, can be particularly at risk from infections. Those at risk should seek advice about drinking water from the 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 (1-800-426-4791).
The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system.
MCLs are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink two 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. 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. Pike County Water Authority 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>.