

Fifty Six Water Department

2023 Annual Drinking Water Quality Report

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water, and we want you to understand, and be involved in, the efforts we make to continually improve the water treatment process and protect our water resources.

Where Does Our Drinking Water Come From?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our source of water is one well that pumps from the Gunter Sandstone Aquifer. We also purchase water from the City of Mountain View, whose source is surface water from the White River.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed Source Water Vulnerability Assessments for the Fifty-Six Water Department. The assessments summarize the potential for contamination of our drinking water sources and can be used as a basis for developing a source water protection plan. Based on the various criteria of the assessment, our water sources have been determined to have a low susceptibility to contamination. You may request a summary of the Source Water Vulnerability Assessments from our office.

What Contaminants Can Be In Our Drinking Water?

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, can 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, 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 assure tap water is safe to drink, EPA has regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Am I at Risk?

All 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 the water poses a health risk. However, 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 small amounts of contamination. These people should seek advice about drinking water from their health care providers. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791. In addition, EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbiological contaminants are also available from the Safe Drinking Water Hotline.

Lead and 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. We are 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>.

How Can I Learn More About Our Drinking Water?

If you have any questions about this report or concerning your water utility, please contact Mayor Ernestine McDaniel, at 870-757-2539. 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. They are held on the second Monday of each month at 6:30 PM at City Hall.

TEST RESULTS

We and Mt View routinely monitor constituents in your drinking water according to Federal and State laws. The test results table shows the results of our monitoring for the period of January 1st to December 31st, 2023. In the table you might find terms and abbreviations you are not familiar with. To help you better understand these terms we've provided the following definitions:

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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) - unenforceable public health goal; 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.

NA - Not applicable

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

Parts per billion (ppb) - a unit of measurement for detected levels of contaminants in drinking water. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per million (ppm) - a unit of measurement for detected levels of contaminants in drinking water. One part per million corresponds to one minute in two years or a single penny in \$10,000.

TURBIDITY						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Turbidity (Mtn. View Water)	N	Highest yearly sample result: 0.54	NTU	NA	Any measurement in excess of 1 NTU constitutes a violation	Soil runoff
		Lowest monthly % of samples meeting the turbidity limit: 99%			A value less than 95% of samples meeting the limit of 0.3 NTU, constitutes a violation.	

♦ Turbidity measures water cloudiness. We and Mt View monitor it because it is a good indicator of the effectiveness of our filtration system.

INORGANIC CONTAMINANTS						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Fluoride (Mtn. View Water)	N	Average: 0.66 Range: 0.57 - 0.76	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate [as Nitrogen] (Mtn. View Water)	N	Average: 0.38 Range: 0.32 - 0.44	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

LEAD AND COPPER TAP MONITORING						
Contaminant	Number of Sites Sampled	Number of Sites over Action Level	90 th Percentile Result	Unit	Action Level	Major Sources in Drinking Water
Lead (Fifty-Six Water)	10	0	0.001	ppm	0.015	Corrosion from household plumbing systems; erosion of natural deposits
Copper (Fifty-Six Water)	10	0	0.096	ppm	1.3	

♦ We are currently on a reduced monitoring schedule and are required to sample lead and copper at the customers' taps once every three years. The results above are from our last monitoring period in 2022. Our next required monitoring period is in 2025.

♦ Below are lead monitoring results at customers' taps in 2022. The Action Level for lead is 0.015 ppm.

Site ID	Analyte	Level Detected	Unit
046YL012	Lead	0.0017	ppm
046YL008	Lead	0.0014	
046YL010	Lead	0.0012	
046YL031	Lead	Not Detected	
046YL029	Lead	Not Detected	
046YL027	Lead	Not Detected	
046YL023	Lead	Not Detected	
046YL007	Lead	Not Detected	
046YL003	Lead	Not Detected	
046YL001	Lead	Not Detected	

REGULATED DISINFECTANTS						
Disinfectant	Violation Y/N	Level Detected	Unit	MRDLG (Public Health Goal)	MRDL (Allowable Level)	Major Sources in Drinking Water
Chlorine (Fifty-Six Water)	N	Average: 1.015 Range: 1.01 - 1.02	ppm	4	4	Water additive used to control microbes

BY-PRODUCTS OF DRINKING WATER DISINFECTION					
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)
HAA5 [Haloacetic Acids] (Fifty-Six Water)	N	Highest Annual Running Average: 33 Range: 16.4 - 41	ppb	0	60
TTHM [Total Trihalomethanes] (Fifty-Six Water)	N	Highest Annual Running Average: 53 Range: 27.5 – 64.7	ppb	NA	80

VIOLATIONS - Fifty-Six Water Department			
TYPE: State Licensing	FROM:	TO:	CORRECTIVE ACTION:
State licensing regulations were not met	10/1/2023	1/25/2024	Water system operator obtained license in compliance with state regulations.
TYPE: Consumer Notice			
Consumer Confidence Report (CCR) - Failure to provide annual water quality report to customers	7/1/2023	7/10/2023	Made report available to public.
Consumer Notice - Failed to provide results to customers who tested for lead and copper.	12/11/2023	Current	Posted results on the 2023 CCR as required by the state and federal lead and copper rule.

SIGNIFICANT DEFICIENCIES	
Under the Ground Water Rule, each Water Treatment System must be surveyed (audited) by the Arkansas Department of Health. All uncorrected Significant Deficiencies must be identified, corrected, and reported to the public. Fifty-Six had one Significant Deficiencies identified during their survey in March 2018.	
Nature of Deficiencies	Progress to Date
No tank inspection in five years.	Fifty-Six has responded that corrective actions are being pursued.