

# 2022 Annual Drinking Water Quality Report



## City of Bentonville Water Utilities Department

Preston Newbill  
*Water Utilities Deputy Director*  
Monday through Friday  
7:30 to 4:00  
[www.bentonvillear.com](http://www.bentonvillear.com)

3200 SW Municipal Dr.  
(Mailing Address: 1000 SW 14th St)  
Bentonville, AR 72712  
(479) 271-3140 Opt 2





# Dive into Our Crystal-Clear Water Quality Report

We're pleased to present to you this year's **Annual Drinking Water Quality Report**. This report helps you understand the high-quality water and services we provide daily. We aim to offer a safe and reliable drinking water supply. We encourage you to be a part of our ongoing efforts to improve water quality and safeguard our resources.

## OUR MISSION

Bentonville Water Utilities staff is dedicated to delivering consistent, sustainable water and wastewater services for Bentonville, AR citizens.

## OUR VISION

Bentonville Water Utilities ensures quality plans, infrastructure, and a solid future foundation. Our high-standard team focuses on optimal system operation and maintenance, preparing for today, tomorrow and into the future.



# From Your Utility

To Our Valued Customers,

It is my pleasure to share our yearly water quality testing report with you. In 2022, Bentonville Water Utilities took 912 water samples from our water system to make certain our drinking water is safe and that the water provided to you and your family is the highest possible quality. Like previous years, thanks to our dedicated staff, we met all federal and state drinking water standards without a single violation.

This year we have a few large projects on the horizon. We are actively evaluating the future of our City's water demands. Currently, we have contracted with Garver Engineering to conduct a study of our water system. This study, and subsequent plan, will help project the demand that is placed on our water system so we can identify areas for upgrades and future expansion. We revisit our water master plan every few years to make sure we are planning properly for the growth of our system.

This year we will begin updating our current service line material inventory to start the compliance process with the EPA's 2021 Lead and Copper Rule Revision. This rule is enforced nationwide and while the City is currently on a reduced lead and copper sampling protocol, we are still committed to identifying every possible avenue to ensure the quality of our water system.

Please contact us if you have any questions about this year's report or any questions in general about your water quality or the water infrastructure in the City of Bentonville.

Sincerely,

**Preston Newbill**

Water Utilities Deputy Director

# A Guide to Key Terms and Standards

We, along with Beaver Water District, regularly monitor drinking water constituents as per Federal and State laws. The table displays results from January 1st to December 31st, 2022. Unfamiliar terms and abbreviations are clarified with provided definitions.

## Action Level

Contaminant concentration triggering treatment or other water system requirements.

## Maximum Contaminant Level (MCL)

Highest allowed contaminant level in drinking water, set close to MCLGs using the best treatment technology.

## Maximum Contaminant Level Goal (MCLG)

Unenforceable public health goal; contaminant level in drinking water with no known/expected health risk, allowing a safety margin.

## Maximum Residual Disinfectant Level (MRDL)

Highest allowed disinfectant level in drinking water, necessary for microbial control.

## Maximum Residual Disinfectant Level Goal (MRDLG)

Drinking water disinfectant level with no known/expected health risk, not reflecting disinfectant benefits for microbial control.

## Nephelometric Turbidity Unit (NTU)

Measurement unit for water clarity; over 5 NTU is noticeable.

## Parts per billion (ppb)

Measurement unit for contaminants in drinking water; 1 ppb = 1 min in 2,000 yrs or 1 penny in \$10,000,000.

## Parts per million (ppm)

Measurement unit for contaminants in drinking water; 1 ppm = 1 min in 2 yrs or 1 penny in \$10,000.

# Test Results

## TURBIDITY

Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Turbidity (Beaver Water District)	N	Highest yearly sample result: 0.19	NTU	NA	Any measurement in excess of 1 NTU constitutes a violation	Soil runoff
		Lowest monthly % of samples meeting the turbidity limit: 100%			A value less than 95% of samples meeting the limit of 0.3 NTU, constitutes a violation	

Turbidity is a measurement of the cloudiness of water. Beaver Water District monitors it because it is a good indicator of the effectiveness of their filtration system.

## INORGANIC CONTAMINANTS

Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Fluoride (Beaver Water District)	N	Average: 0.65 Range: 0 – 0.81	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
Nitrate [as Nitrogen] (Beaver Water District)	N	Average: 0.56 Range: 0 – 1.12	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

## TOTAL ORGANIC CARBON

The percentage of Total Organic Carbon (TOC) removal was routinely monitored in 2022 by Beaver Water District, and all TOC removal requirements set by USEPA were met. TOC has no health effects. However, Total Organic Carbon provides a medium for the formation of disinfection by-products. These by-products include trihalomethanes (THMs) and haloacetic acids (HAAs).

## LEAD AND COPPER TAP MONITORING

Contaminants	Number of Tap Samples	Number of Sites over Action Level	90th Percentile Result	Unit	Action Levels	Major Sources in Drinking Water
Lead (Bentonville Water Utilities)	30	1	0.001	ppm	0.015	Corrosion from household plumbing systems; erosion of natural deposits
Copper (Bentonville Water Utilities)	30	0	0.035	ppm	1.3	

We are currently on a reduced monitoring schedule and required to sample once every three years for lead and copper at the customers' taps. The results above are from our last monitoring period in 2020. Our next required monitoring period is in 2023.

## REGULATED DISINFECTANTS

Disinfectant	Violation Y/N	Level Detected	Unit	MRDLG (Public Health Goal)	MRDL (Allowable Level)	Major Sources in Drinking Water
Chlorine (Bentonville Water Utilities)	N	Average: 1.10 Range: 0.51 – 1.53	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] (Bentonville Water Utilities)	N	Highest Locational Average: 39 Range: 14.4 – 56.2	ppb	0	60
TTHM [Total Trihalomethanes] (Bentonville Water Utilities)	N	Highest Locational Average: 45 Range: 25.9 – 59.3	ppb	NA	80
Chlorite (Beaver Water District)	N	Highest Annual Quarterly Average: 201.33 Range: 135 – 301	ppb	800	1000





# The Making of Bentonville's Iconic Tiger Tank Water Tower

Discover the engineering behind Bentonville's beloved Tiger Tank Water Tower! As a symbol of our city's spirit and commitment to providing clean water to our community, this blueprint poster offers a unique glimpse into the tower's intricate design and construction. Admire the detailed plans that brought our iconic water tower to life, and take pride in knowing that Bentonville's water infrastructure is built to serve and inspire. Enjoy this visual journey, and let your Tiger Pride roar!

