Southwest White County Water Association
2022 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. We purchase treated surface water from Searcy Water System whose source is Little Red River. We also purchase water from the City of Vilonia, who purchases treated surface water from Community Water System, Mid-Arkansas Utilities PWA, and Lonoke-White Public Water Authority. Both Community Water System and Lonoke-White PWA sources are surface water from Greer's Ferry Lake. Community Water also purchases water from Conway Corporation, whose source is surface water from Brewer Lake. Mid-Arkansas Utilities PWA purchases treated surface water from Central Arkansas Water (CAW) whose water supply is from two lakes, Lake Winona and Lake Maumelle. Both lakes can supply Jackson Reservoir, a regulating reservoir located in Little Rock. Water is delivered by pipeline to the Jack H. Wilson and Ozark Point water treatment plants. Those treatment facilities are located in Little Rock. Mid-Arkansas Utilities PWA also purchased water from Jacksonville Waterworks whose source is twelve wells that pump from the Quaternary System Aquifer. Jacksonville Waterworks also purchases from Central Arkansas Water.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Searcy Water System. The assessment summarizes the potential for contamination of our source of drinking water and can be used as a basis for developing a source water protection plan. Based on the various criteria of the assessment, our water source has been determined to have a low susceptibility to contamination. You may request a summary of the Source Water Vulnerability Assessment 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.

What is Cryptosporidium?

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. It lives and reproduces only with the host. In the environment, *Cryptosporidium* exists as a thick walled oocyst, containing four organisms. Monitoring by Lonoke White Waterworks in 2022 indicated none of these organisms in the sampling of the Greers Ferry water source. It is important to know that although filtration removes *Cryptosporidium*, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water. Our monitoring is now complete, and no further action is required.

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 Tate House, General Manager, at 501-268-7374. 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 11:30 AM, at the Southwest White County Water Office, 2313 HWY 267 S, Searcy.

TEST RESULTS

We, Searcy Water System, Lonoke-White PWA, Central Arkansas Water, Community Water, Conway Corporation, Jacksonville, and Vilonia routinely monitor for 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, 2022. 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

Nephelometric Turbidity Unit (NTU) – a unit of measurement for the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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 (CAW - Ozark Point WTP)	N	Highest yearly sample result: 0.17 Lowest monthly % of samples meeting the turbidity limit: 100%	NTU	NA	Any measurement in excess of 1 NTU constitutes a violation	Soil Runoff
Turbidity (CAW - Jack Wilson WTP)	N	Highest yearly sample result: 0.22 Lowest monthly % of samples meeting the turbidity limit: 100%				
Turbidity (Lonoke-White PWA)	N	Highest yearly sample result: 0.35 Lowest monthly % of samples meeting the turbidity limit: 99.5%			A value less than 95% of samples meeting the limit of 0.3 NTU, constitutes a violation	
Turbidity (Community Water)	N	Highest yearly sample result: 0.30 Lowest monthly % of samples meeting the turbidity limit: 100%				
Turbidity (Conway Corporation)	N	Highest yearly sample result: 0.29 Lowest monthly % of samples meeting the turbidity limit: 100%				
Turbidity (Searcy Water)	N	Highest yearly sample result: 0.11 Lowest monthly % of samples meeting the turbidity limit: 100%				

- Turbidity is a measurement of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration systems.

RADIOACTIVE CONTAMINANTS						
Contaminant	**Violation Y/N**	**Level Detected**	**Unit**	**MCLG** (Public Health Goal)	**MCL** (Allowable Level)	**Major Sources in Drinking Water**
Tritium (CAW)	N	592.90	pCi/L	NA	NA	Decay of natural deposits

INORGANIC CONTAMINANTS						
Contaminant	**Violation Y/N**	**Level Detected**	**Unit**	**MCLG** (Public Health Goal)	**MCL** (Allowable Level)	**Major Sources in Drinking Water**
Fluoride (Searcy Water System)	N	Average: 0.70 Range: 0.64 – 0.80	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
Fluoride (CAW - Ozark Point WTP)	N	Average: 0.80 Range: 0.75 – 0.86				
Fluoride (CAW - Jack Wilson WTP)	N	Average: 0.78 Range: 0.73 – 0.85				
Fluoride (Lonoke-White PWA)	N	Average: 0.76 Range: 0.66 – 0.88				
Fluoride (Community Water)	N	Average: 0.75 Range: 0.57 – 0.98				
Fluoride (Conway Corporation)	N	Average: 0.71 Range: 0.66 – 0.81				
Nitrate [as Nitrogen] (Conway Corporation)	N	Average: 0.54 Range: 0.23 – 0.84	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrate [as Nitrogen] (Community Water)	N	Average: 0.09 Range: 0 – 0.21				
Nitrate [as Nitrogen] (Searcy Water System)	N	0.13				

LEAD AND COPPER TAP MONITORING					
Contaminant	**Number of Sites over Action Level**	**90th Percentile Result**	**Unit**	**Action Level**	**Major Sources in Drinking Water**
Lead (Searcy Water System)	0 of 30	0.002	ppm	0.015	Corrosion from household plumbing systems; erosion of natural deposits
Copper (Searcy Water System)	0 of 30	0.199	ppm	1.3	

- We are currently consolidated with Searcy Water System for purposes of Lead & Copper tap monitoring. We and Searcy are 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.

TOTAL ORGANIC CARBON

- The percentage of Total Organic Carbon (TOC) removal was routinely monitored in 2022 by our supplier, Searcy, 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).

REGULATED DISINFECTANTS						
Disinfectant	**Violation Y/N**	**Level Detected**	**Unit**	**MRDLG** (Public Health Goal)	**MRDL** (Allowable Level)	**Major Sources in Drinking Water**
Chlorine (SW White Co Water Assn)	N	Average: 0.93 Range: 0.54 – 1.52	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] (SW White Co Water Assn)	N	Highest Running Annual Average: 27 Range: 12.9 – 32.4	ppb	0	60
TTHM [Total Trihalomethanes] (SW White Co Water Assn)	N	Highest Running Annual Average: 35 Range: 12.9 – 43.9	ppb	NA	80
Chlorite (CAW- - Ozark Point WTP)	N	Average: 137 Range: 43 - 339	ppb	800	1000
Chlorite (CAW – Jack Wilson WTP)	N	Average: 318 Range: 225 - 395			
Chlorite (Lonoke-White PWA)	N	Average: 440 Range: 372 - 569			
Chlorite (Searcy Water System)	N	Average: 472.25 Range: 430 - 494			

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