Furlow Water Association 2014 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. Furlow Water Association purchases treated water from Jacksonville Water Works whose sources are twelve wells that pump from the Quaternary System Aquifer, Water is also purchased from Lonoke-White County Water. Jacksonville Water Works also purchases water from Central Arkansas Water, which receives its supply from two surface water sources: 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. Both treatment facilities are located in Little Rock.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed Source Water Vulnerability Assessments for Jacksonville Water Works and Central Arkansas Water. The assessments summarize the potential for contamination of our sources of drinking water and can be used as a basis for developing source water protection plans. Based on the various criteria of the assessments, our water sources have been determined to have a low to high susceptibility to contamination. You may request summaries of the 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: <u>Microbial contaminants</u> such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; <u>Inorganic contaminants</u> 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; <u>Pesticides and herbicides</u> which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; <u>Organic chemical contaminants</u> 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; <u>Radioactive contaminants</u> 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.

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 Central Arkansas Water in 2014 indicated no presence of these organisms in their Lake Maumelle, Lake Winona, or Jackson Reservoir water sources. It is important to know that although filtration removes *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.

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 Robert Stout, Operations Manager, at 501-982-0734. 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 Tuesday of each month at 6:30 PM at Concord Church located on Concord Road off Highway 89.

TEST RESULTS

We, Jacksonville Water Works, Lonoke-White County, and Central Arkansas Water 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, 2014. Since the dataset for Lonoke-White County contains less than a year's data, it is not included this year. 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

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.

		MICROE	BIOLOGIC	CAL	CONTAMINAN	rs					
Contaminant	Violatio Y/N	Level Detected	Level Detected Unit		MCLG (Public Health Goal)		MCL (Allowable Level)		Major Sources in Drinking Water		
Total Coliform Bacteria (Furlow Water Assn)			Present		0		1 positive sample per month		Naturally present in the environment		
			TUR	BIC	DITY						
Contaminant	Contaminant Violation Y/N		Unit		MCLG (Public Health Goa	al)	MCL (Allowable Level)			Major Sources in Drinking Water	
Turbidity (Central Arkansas Water)	N	Highest yearly sample result: 0.21 Lowest monthly % of samples meeting the turbidity limit:100%	NTU		NA	A v sar of (vio	Any measureme excess of 1 N constitutes a vio A value less than 9 samples meeting th of 0.3 NTU, constitu- violation			Soil runoff	
		f the cloudiness of wa of their filtration syst		s mo	onitored by Cent	tral Arl	kansas Wa	iter it be	cause	e it is a good	
		INO	RGANIC	CON	NTAMINANTS						
Contaminant	Violation Y/N	Level Detected	Unit	(Pi	MCLG ublic Health Goal)		MCL able Level)	Major Sources in Drinking Water			
Fluoride (Jacksonville Water Works)	Ν	Average: 0.85 Range: 0.60 - 1.22							Erosion of natural deposits;		
Fluoride (Central Arkansas Water)	Ν	Average: 0.68 Range: 0.54 – 0.91	ppm		4		4	water additive which promotes strong teeth			
Nitrate [as Nitrogen] (Jacksonville Water Works)	N	Average: 0.75 Range: 0.74 – 0.76	ppm		10		10	leaching	from fertilizer use; g from septic tanks, e; erosion of natural ts		

CONTRACTOR OF	Number	of Sites	90 th Per		ER TAP MOI						
Contaminant	over Action Level 0 0		Result <0.003 0.31		Unit	Action	Action Level		Major Sources in Drinking Water		
Lead (Furlow Water Assn)					ppm	0.015		Corrosion from household plumbing			
Copper (Furlow Water Assn)					ppm	1.			systems; erosion of natural deposits		
 We are currently or customers' taps. 2017. 	n a reduce The results	ed monitor above ar	ring schedule e from our la	e and red ast moni	quired to sar toring period	nple onc 1 in 2014	e every t . Our ne	three y ext rec	vears for lead juired monit	d and copper at the oring period is in	
			REG	ULATED	DISINFECT						
Disinfectant	Violation Y/N Leve		Detected	Unit	MRDLO (Public Health		Goal) (Allowable		Major Sour	ces in Drinking Wate	
Chlorine (Furlow Water Association)	N	N Average: Range: 0		ppm	4		4		Water additive used to control microbes		
					GANIC CAR						
 The percentage of requirements set t provides a medium haloacetic acids (H 	by USEPA w n for the fo	vere met. ormation o	Total organi f disinfection	ic carbon n by-prod	i (TOC) has ducts. Thes	no health e by-pro	ducts inc	How lude t	ever, total o		
		BY-F Violation			KING WATE	R DISIN	FECTION			MCL	
Contaminant		Y/N	Lev	el Detec	ted	Units	(P	MCLG (Public Health Goal)		MCL (Allowable Level)	
HAA5 [Haloacetic Acids] (Furlow Water Assn)		NA		23		ppb			0	60	
THM [Total Trihalomethanes] ^{Furlow} Water Assn)		NA	Average: 63. Range: 62.9		ppb		NA		80		
Chlorite Central Arkansas Water)			N Average: 200 Range: 20 - 605			ppb		800		1000	
We are currently Haloacetic Acids in	n our distri	ed monito ibution sys	oring schedul stem. UNREC	le and re		mple ond	ce every	year f			
We are currently Haloacetic Acids in Contaminant	n our distri	ed monito ibution sys	stem. UNREC	le and re		mple one	ce every	year f		alomethanes and Drinking Water	
We are currently Haloacetic Acids in Contaminant Chloroform (Central Arkansas Water)	n our distri L Avera Rang	ed monito ibution sys evel Detection age: 18.15 e: 6.89 – 2	unreconstruction of the schedule schedule schedule schedule schedule schedule schedule schedule schedule schedu	le and re	D CONTAM	mple one	ce every	year f			
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Contaminant Level Goals) have not been established for all unregulated contaminants.

This institution is an equal opportunity provider and employer.