Acorn Rural Water Association 2011 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 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.

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 water from Mena Water Utilities whose source is surface water from Irons Fork Lake.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Mena Water Utilities. 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: <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 prescribes 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 Michael Aleshire, Operator or Diane Tedder, Secretary, at 479-394-1025. 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 third Thursday of each month at 6:00 PM at 121 Polk 114 in Mena.

TEST RESULTS

We and Mena Water Utilities 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, 2011. 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.

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.

NA – not applicable

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.

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.

				MICRO	DBIO	LOGIC	AL CO	NTAMINA	NTS			
Contaminant		Violation Y/N	Level Detecte		ed	Unit		MCLG (Public Health Goal)		MCL (Allowable Level)	Major Sources in Drinking Water	
Total Coliform Bacteria (Acorn Rural Water Assn)		Ν	None			Present		0		1 positive sample pe month	er Naturally present in the environment	
						TURB	BIDIT	Y				
Contaminant Violation Y/N		Level Detected			Uni	t (P		CLG lealth Goal)		MCL (Allowable Level)	Major Sources in Drinking Water	
Turbidity (Mena Water Utilities)	N	Highest yearl result: 0.25	y samp	le						ny measurement in excess of 1 NTU		
		Lowest monthly % of samples meeting the turbidity limit: 100%			NTU	J	NA		Αv	nstitutes a violation value less than 95% nstitutes a violation	Soil runoff	
		rement of the r filtration syst							monit		good indicator of the	
			_				R TAP	MONITOR	-			
Contaminant		Number of over Action			ercen esult	tile	Unit Acti Lev		-	Major Sources in Drinking Water		
Lead (Acorn Rural Water Assn)		0	<0.003		0.003		ppm	pm 0.015		Corrosion from household plumbing systems; erosion of natural deposits		
Copper (Acorn Rural Water Assn)		0	<0.20				ppm	•				
		monitoring sch eriod in the yea									er at the customers' taps.	
		,						CARBON		•		
requireme	nts set by l	JSEPA were me	t. TÔC I	has no h	nealth	effects	. Hov	wever, Total	l Orga		lities, and all TOC removal medium for the formation	

			REGUL	ATED DIS	SINFECTANTS				
Disinfectant	Violation Y/N	n Lev	vel Detected	Unit	MRDLG (Public Health Goal)	MRC (Allowable	_	Major Sources in Drinking Water	
Chlorine (Acorn Rural Water Assn)	N		ge: 0.83 e: 0.6 - 1.0	ppm	4	4		Water additive used to control microbes	
		BY-P	RODUCTS OF I	DRINKIN	G WATER DIS	INFECTIO	DN .		
Contaminant	V	Violation Y/N		evel Dete	Unit	(Public	MCLG c Health Goal)	MCL (Allowable Level)	
HAA5 [Haloacetic Acids] (Mena Water Utilities)		N Highest Rui Range: 18.			nth Average: 46	ppb		0	60
TTHM [Total Trihalomethan (Mena Water Utilities)	es]	Ν	Highest Runnin Range: 21 - 1		nth Average: 68	ppb	NA		80
 While only the upper drink water contain liver, kidneys, or ce 	ning triha	alometha	anes in exces stems, and n	s of the hay have	MCL over ma	ny years d risk of	may e	experience p	
Contaminant		Level De		Unit		-		Joion Courses	in Drinking Water
Chloroform (Mena Water Utilities)		Level Detected 8.43		ppb	MCLG (Public Health Goal) 70		Major Sources in Drinking Water By-products of drinking water		
Bromodichloromethane (Mena Water Utilities)		2.17		ppb	0			fection	
 Unregulated contamin contaminant monitorin future regulation is wa established for all unre 	ig is to as rranted.	ssist EPA MCLs (Ma	in determining aximum Contam	the occu	rrence of unreg	gulated co	ntamin	ants in drinki	ng water and whether

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