# **Foreman Municipal Waterworks** 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 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 water from Little River County RDA whose source is surface water from Lake Millwood.

# How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Little River County RDA. 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 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 Eddie Smith, Operator in Charge, at 870-542-6234. 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 Monday of each month at 6:00 PM at the Foreman Community Center.

#### **TEST RESULTS**

We and Little River County RDA 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 1<sup>st</sup> to December 31<sup>st</sup>, 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.

**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.

					MICR	OBIOL	OGIC	CAL CO	NTAMIN	ANT	s				
Contaminant		Violati Y/N		Level Detected			Unit		<b>MCLG</b> (Public Health Go		ioal)		CL ble Level)		Major Source in Drinking Water
Total Coliform Bacteria		N	1 po	1 positive in Octo			ober Pres		. 0		1 positive month		sample per		Naturally present in the environment
		1					TUR	BIDIT	Y						
Contaminant		ation /N	Level Detected			Un	it		MCLG Health Goal)			MCL (Allowable Level)		Major Sources in Drinking Water	
Turbidity (Little River)	bidity N Low tle River) Sam			nest yearly sample ult: 0.12 est monthly % of aples meeting the bidity limit: 100%			NTU		NA		Any measure excess of 1 constitutes a A value less th constitutes a		NTU riolation an 95%	Soil runoff	
		neasure		e clo	oudines n.									indi	cator of the
					IN				MINAN						
Contaminant		ation /N				-	MCLG Healt	i h Goal)	MCL (Allowable Level		وربوا)	Major Sources in Drinking Wate			nking Water
Nitrate [as Nitrogen] (Little River)	N 0.11						10			10		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
									MONITO						
Contamina	ber of Site Action Lev				Percentile Result			Unit Action		Majo	Major Sources in Drinking Wate				
Lead (Foreman)			1				0.004		ppm				sion from household		
Copper (Forem		0			0.32			F F		1.3		plumbing systems; erosion of natural deposits			
customer period is Infants delays ir	s' taps in 201 <b>and c</b> n thei abilit	s. The .2. childre r physi ties. Ac	results ab n who di ical or me	ove fink enta	are fro wate I deve	om our r <b>cont</b> lopme	last ainii ent. (	monito ng lea Childre	ring per d in ex en could	iod v cess I sho	was in s of t ow sl	2009. O the action ight defic	ur next r n level ( its in at	equii coul tent	copper at th red monitorin d experienc ion span and lems or hig
									N (Little						
removal i organic o	requir arbon	ements 1 provid	al Organic set by US les a me s) and Hal	SEPA dium	were for t etic aci	met. T the for: ds (HA	Total mati As).	organi ion of	c carbor disinfect	n (T( tion	C) h	as no hea	lth effect	ts. I	er, and all TO However, tota oducts includ
	1/:	olation	1						FECTAN DLG	15	M	IRDL	Major	Sour	es in Drinking
Disinfectant	VI	Y/N	Level Detec		cted	Unit	: (I		ealth Goal)						ater
Chlorine (Foreman)		N	Average: Range: (			ppm	ì	4			4		Water additive used to control microbes		

	BY-PR	ODUCTS OF	DRINKI	NG WATER DISINFE	TION				
Contaminant	Violation Y/N	Level Detected			Unit	<b>MCLG</b> (Public Health Goal)	MCL (Allowable Level)		
HAA5 [Haloacetic Acids] (Little River)	NA	Highest Running Locational Average: *46.3 Range: 7.4 – 39.8				0	60		
TTHM [Total Trihalomethanes] (Little River)	NA	Highest Running Locational Average: <b>*101.1</b> Range: 33.3 – 67.2 THM are from investigative (or preliminary				NA	80		
<ul> <li>goes into effect some la are taking investigative Rule goes into effect. M</li> <li>The highest running 12 reported is from monitori</li> <li>Some people who drin experience problems of getting cancer.</li> </ul>	samples to v ICLs are not month averaging during 201 I <b>k water cor</b>	vork on reduce applicable to ge is calculate 1 only. Intaining Trif	cing HAA investiga d using the set of the se	5s and TTHMs throug ative monitoring. he last 3 quarters of 20 hanes in excess of	phout the c D10 and all <b>the MCL c</b>	listribution sys 4 quarters of 2 over many ye	tem before new 011. The range <b>ars may</b>		
or getting cancer.		UNREGU	LATED C	ONTAMINANTS					
Contaminant	Level De	tected	Unit	MCLG (Public Health Goal)	Major	Major Sources in Drinking Water			
Chloroform (Little River)	26.	2	ppb	70					
Bromodichloromethane (Little River)	17.2		ppb			By-products of drinking water disinfection			
Dibromochloromethane (Little River)	6.91		ppb						
Bromoform (Little River)	0.5	4	ppb						
<ul> <li>Unregulated contamina unregulated contaminar drinking water and wh (Maximum Contaminant)</li> </ul>	nt monitoring nether future	g is to assist e regulation	: EPA in is warra	determining the occ anted. MCLs (Maxin	urrence of mum Cont	unregulated o aminant Leve	contaminants in		

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