2004 Annual Drinking Water Quality Report Forrest City Waterworks

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. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. 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. Our sources of water are 10 wells that pump form the Alluvial (Quaternary System) Aquifer to two water treatment plants.

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.

The Arkansas Department of Health completed a Source Water Vulnerability Assessment for Forrest City Waterworks. This assessment summarizes the potential for contamination of our sources 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 sources have been determined to have a medium susceptibility to contamination. You may request a summary of the Source Water Vulnerability Assessment from the Forrest City Waterworks Office.

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. 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 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.

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 infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If you have any questions about this report or concerning your water utility, please contact Jim Beazley, Manager, at 870-633-2921. 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 3rd Tuesday of each month at 5:30 PM at Forrest City Water Utility Office.

Forrest City Waterworks routinely monitors 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, 2004. 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:

Parts per million (ppm) or Milligrams per liter (mg/L) - One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter ($\mu g/L$) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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 - The "Goal" (MCLG) is 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 WTP – Water Treatment Plant

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			M	ICRO		GICAL CO	NTA	MINA	NTS					
Contaminant	Violation Y/N		Level Detected			Unit of Measurement		MCLG		MCL			Major Sources in Drinking Water	
Total Coliform N		1		Present			0	> 1 positi sample				aturally present in the nvironment		
				IN	ORGANI	C CONTA	MIN	ANTS						
Contaminant		Violation Y/N	on Level Det		ted	Unit of Measuren		MCI	LG M	CL		- T	Sources in Drinking Water	
Fluoride (New WTP)		N	-	verage: 0.81 ange: 0.73 - 0.87							Erosion of natural deposits; water additive which promotes strong			
Fluoride (Old WTP)		N Average				ppm		4		4		teeth; discharge from fertilizer and aluminum factories		
Nitrate (as Nitrogen) (New WTP)		N Average						10			Runoff from fertilizer use; lead			
Nitrate (as Nitrogen) (Old WTP)		N	Average: 2			ppm	ppm			10	from septic tanks, sewage; erosi of natural deposits			
(Old WIT)						PER TAP	MOI	NITOR	ING					
Contaminant			Number of Sites over Action Level		90 th rcentile Result	95 th Percenti Result	ile L		nit of urement		ction Level	Major Sources in Drinkin Water		
Lead			0 (0.002 0.002			mg/I		0	0.015		Corrosion from household	
Copper			0		0.44	0.78		mg/L			1.3	plumbing systems; erosion of natural deposits.		
				RE		ED DISINE	ECT	ANTS						
Disinfectant Violation Y/N		Level De	Level Detected		Unit of Measurement		RDLG MRDL			Major Sources in Drinking Water				
			rerage: 0.91 nge: 0.24 – 2.2		ppm		4 4			Water additive used to control microbes				
			V	DLAT	ILE OR	GANIC CO	NTA							
Contaminant			1000000	Y/N		l Detected	Unit o Measurer			M	CLG	MC	L Major Sources in Drinking Water	
HAA5 [Haloacetic Acids]			N		Range:	verage: 2.9 0 – 2.1	5 ppb		ob		0	60	By-products of drinking water	
TTHM [Total Trihalomethanes]			N		Highest annual a Range:	verage: 5.7	3	ppb		. 1	NA	80	disinfection	
Trichloroethylene [Trichloroethene] (New WTP)			N		Average Range:	: 1.57 1.00 – 2.10	ppb		ob		0	5	Discharge from metal degreasing sites and other	
Trichloroethylene [Trichloroethene] (Old WTP)			N		Average Range:	: 1.38 1.30 – 1.46							factories	
Tetrachloroethylene [Tetrachloroethene] (Old WTP)			ene] N	Average:		: 1.57 1.09 – 1.84		ppb			0	5	Discharge from factories and dry cleaners	
NOTE: Range for HA	A5 &	TTHM based	on four quarters			verage calcula				and 20	04.			
Contaminant					Level Detected			Unit of Measurement		nt	MCLG		Major Sources in Drinking Water	
Bromoform (New WTP)					0.62						0			
Dibromochloromethane (New WTP)					Average Range 0.65 0.51 - 0.79						60		- By products of drinkin	
Chloroform (Old WTP)					1.35 0.88 - 1.81			ppb			NA		By-products of drinking vater disinfection	
Dibromochloromethane (Old WTP)					1.79	0.67 – 2.91 60 Water d			rater distillection					
	d WTI				1.65				0					
Bromodichlorome		1.52			<u></u>	0 The purpose of unregulated								
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Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. MCLs (Maximum Contaminant Levels) and MCLGs (Maximum Contaminant Level Goals) have not been established for all unregulated contaminants.