Eureka Springs Public Works 2009 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. 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. We purchase treated surface water from Carroll - Boone Water District whose source is Beaver Lake.

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 has completed a Source Water Vulnerability Assessment for Carroll - Boone Water District. 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.

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 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. Eureka Springs Public Works is 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.

If you have any questions about this report or concerning your water utility, please contact Dwayne Allen, Public Works Director, at 479-253-9600. 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 and forth Mondays of each month at 6:00 PM at the Carroll County Courthouse, Eastern District, 44 South Main Street, Eureka Springs.

Eureka Springs Public Works and Carroll - Boone Water District 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, 2009. 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 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.

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	Violat	ion			-CROB	TOLOGE	CAL CON	FAI	MINAN	<u>TS</u>				
Contaminant Total Coliform		Y/N Level D			ected	Ur	i t (Pul	MCLG (Public Health Goal)			MCL (Allowable Level)		Major Sour in Drinkin Water	
Bacteria (Eureka Springs Pub. Works)	N		None			Pres	ent.	0			1 positive sample per			
						TUD					HOHEIS		environment	
Contaminant	Violatio	on l				IOR	BIDITY		·					
Containmant	Y/N		Highest yearly			Uni	t MCLG (Public Health		I CLG fealth Go	ioal) (Allowab		CL le Level)	Major Sourd in Drinkin Water	
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(Carroll-Boone)	N	Lowe	Lowest monthly % samples meeting the turbidity limit: 1009			NTU	,	NA		C			Soil runoff	
		samı												
Turbidity is a m	easuremo	ì									A value less than 95% constitutes a violation good indicator of the effo			
filtration systen).	יינטי נוזפ	cioue	ainess	or wate	r. We n	onitor it t	eca	ause it	is a go	od Indicato	r of the e	fectiveness of o	
<u> </u>				i	NORG/	ANIC CO	NTAMIN	AN	TS					
Contaminant	Violation Y/N	Le	Level Detected					MCLG			MCL N		Major Sources	
			<u> </u>				(Public	Public Health Goal))	(Allowable Level)		Drinking Wate	
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[as Nitrogen] (Carroll-Boone)	N	1				ppm		10		1	10 6		leaching from	
											Se		septic tanks,	
						ADDED 1	AD MONI	MONITORING			of		sewage; erosion of nat. deposits	
Contaminant	V	umber o) I SIE	es i	90 th Pe	ercentife	• 1			ion	T			
Lead		_			sult	Unit			vel	Major S	ources in Drinking Water			
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Eureka Springs Pub. Works)		0			0.22		ppm		1.3		plumbing systems; ero natural deposits		erosion of	
The percentage of	Total Org	anic Carl	DIS:	INFEC	TION E	3Y-PRO	DUCT PRI	ECL	JRSOR	S	Ł			
The percentage of District, and all TC Carbon provides a and haloacetic acid	C remova medium f ls (HAAs).	l require or the fo	ment rmati	s set b	y USEP disinfect	was rou A were r tion by-p	tinely mor net. TOC i products.	nito nas The	ored in 2 no hea ese by-	2009 ii Ilth effi produc	n our source ects. Howe ts include t	e, Carroll- ever, Tota rihalomei	Boone Water I Organic thanes (THMs)	
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			lation Level Det			Unit	MRI	MRDLG			MRDL	Maio	r Sources in	
niorine Jreka Springs Pub. Works		, /	Average: 1.:		3	ppm	(Public Healt		Goal)	(Allow	able Level)	Drin	ing Water	
areka oprings Fab. Works	[F	Range: 0.3 - 2.05					4 TER DISINFECTIO			4 Water add		dditive used to		
		Violatio	· T	UCIS (JF DRI	NKING	WATER D	IS	INFEC	TION			merobes -	
Contaminant [Haloacetic Acids]		Violation Y/N Highest			Level		1	Units		MCLG (Public Health Goal)		MCL (Allowable Level)		
ka Springs Pub. Works) 1 [Total Trihalomethanes] ka Springs Pub. Works)						Locational Average 14.8 - 39.1 Locational Average			ppb		0		NA	
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Contaminant Oform		Level Detected				/nit	М	MCLG Public Health Goal)		М	Major Sources in Drinking Water			
II-Boone Water District)		29.	29.1			pb	70						···	
odichloromethane	5.07			Р	pb				. dicir	By-products of drinking water disinfection				
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