Milltown - Washburn Water 2012 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 surface water from Booneville Water Department and James Fork Regional Water District. Booneville's source is Booneville City Lake, and James Fork Regional Water District's source is James Fork Lake.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed Source Water Vulnerability Assessments for Booneville Water Department and James Fork Regional Water District. 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 medium 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.

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 Judy Dedmon, General Manager, at 479-996-7471. 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 4:00 PM at 2911 East Highway 10 in Greenwood (Business office).

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TEST RESULTS

We, Booneville Water Department, and James Fork Regional 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, 2012. 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.

5, 113, 117, 240, 250, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57			MICRO	BIOLO	GICAL	CONT	AMINANT	S				
Contaminant		Violatio Y/N	Level Detected		Unit	(F	MCLG (Public Health Goal)		MCL (Allowable Level)		Major Sourc Drinking W	
Total Coliform Bacteria Milltown-Washbu	Contraction of the second s		None	Preser	nt	0		1 positive sample per month			Naturally present in the environme	
					TURBID	ITY						
Contaminant Violation Y/N		Level Detected		Unit	(P	MCLG (Public Health Goal)		MCL (Allowable Level)		Major Sou in Drink Water	ing	
T (1) (1)			lighest yearly sample esult: 0.27					Any measurement				
Turbidity (Booneville)			west monthly % of mples meeting the rbidity limit: 100%				NA		in excess of 1 NTU constitutes a violation			
Turbidity (James Fork)			Highest yearly sample esult: 0.16 Lowest monthly % of camples meeting the urbidity limit: 100%	NTU		95% of meetin of 0 cons			e less that of sample g the lin 0.3 NTU, otitutes a plation	es nit		
			t of the cloudiness of their filtration	system	ns.			s Fork	monitor i	t becaus	e it is a good	
		Violation	2		NIC CON		ICLG	1	MCL	Maio	r Sources in Dri	nkin
Contaminan	t	Y/N	Level Detected	l	Unit	-	Health Goal)	(Allo	wable Leve		Water	IIKIII
Nitrate [as Nitrogen] N (Booneville) Fluoride (James Fork) N		Average: 0.42 Range: 0.26 - 0.6	opm		4		4 water a promote Runoff fr leaching sewage;		on of natural dep additive which otes strong teeth			
		Average: 0.87 Range: 0.79 - 0.93		ppm	•					Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
				ID COP	PER TA	PMON	NITORING	3	~			
Contaminant			Number of Sites over Action Level	90 th Percentile Result		tile	Unit	Action	n Level	Major Sources in Drinking Water		
Lead (Milltown-V	Vashb	urn)	0		<0.003		ppm	0.0	015		n from househol	
Copper (Milltown-Washburn)			0			<0.20			.3	of natura	plumbing systems; erosion of natural deposits	
	mers	taps. Th	ced monitoring sche e results above are f									
	56 12				RGANIC							
removal req	uiren the f	nents set ormation	ganic Carbon (TOC) by USEPA were met. of disinfection by-pro	TOC h	as no he	ealth e	effects. H	owever	, Total O	rganic Ca	arbon provides a	

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			REGULA	TED DIS	INFECTA	NTS				
Disinfectant	Y/N		vel Detected	el Detected Unit		ILG Health al)	MRDL (Allowable Level)		Major Sources in Drinking Water	
Chlorine N Milltown-Washburn) N		Range	ige: 0.60 e: 0.12 - 1.3	4				Water additive used to control microbes		
en en die een maar dae een een een een de een een de een een			ODUCTS OF D	RINKING	WATER	DISIN	ECTION			1
Contaminant		Violation Y/N		evel Dete			Unit		MCLG Health Goal)	MCL (Allowable Level)
HAA5 [Haloacetic Acids] (Milltown-Washburn Water)		N	Stage 1 Compliance Highest Running 12 Month Average: 37 Range: 25.7 – 44.6				anh	0		60
		NA	Stage 2 Investigative Highest Running 12 Month Locational Average: 48 Range: 13.3 – 49.5				– ppb			
ITHM [Total Trihalomethanes] (Milltown-Washburn Water)		Y	Stage 1 Compliance Highest Running 12 Month Average: 107 Range: 73.1 - 141							
		NA	Stage 2 Invest 12 Month Loca (site YC008) Range: 77.9 -	tional Ave			ppb	NA		80
goes into effect so are taking investig Rule goes into effe	gative sa	amples to w	work on reduci	ing HAA5	s and TTI	HMs thro	oughout	the dist.		
experience prob	lems w									
	lems w			, or cen	tral nerv	ous sys				
experience prob of getting cance Contami	lems w r. nant	ith their l	iver, kidneys UNREGUL Level Det	, or cent ATED CC	tral nerv	vous sys		ind ma	y have an	increased ris
experience prob of getting cance Contami Chloroform (Booneville	lems w r. nant Water De	ept)	UNREGUL	ATED CC	DNTAMIN	ANTS	stems, a	Major	y have an Sources in	increased risl
experience prob of getting cance Contami Chloroform (Booneville Chloroform (James Fork	lems w r. Mant Water De	ept)	UNREGUL Level Det 24.2 25.3	ATED CC tected	tral nerv	ANTS	stems, a	Major By-pro	y have an Sources in	increased risl
experience prob of getting cance Contami Chloroform (Booneville Chloroform (James Fork Bromodichloromethane	lems w r. Mant Water De Regiona (Boonevi	ept) al) ille Water)	UNREGUL Level Det 24.2 25.3 3.9	ATED CC tected	DNTAMIN Unit ppb	Vous sys	stems, a CLG 70	Major	y have an Sources in	increased risl
experience prob of getting cance Contami Chloroform (Booneville Chloroform (James Fork Bromodichloromethane Bromodichloromethane	lems w r. nant Water De Regiona (Boonevi (James F	ept) al) ille Water) Fork)	UNREGUL Level Det 24.2 25.3 3.99 3.99	ATED CC tected 2 3 7 6	DNTAMIN Unit ppb ppb	Vous sys	stems, a CLG 70 0	Major By-pro disinfe	y have an Sources in oducts of drin	increased risl Drinking Water nking water
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experience prob of getting cance Contami Chloroform (Booneville V Chloroform (James Fork Bromodichloromethane Bromodichloromethane • Unregulated conta unregulated conta drinking water and (Maximum Contar VIOLATIONS – Mill TYPE: By-Products Exceeded the Maximum Contaminant Level (MG month running annual Trihalomethanes (90 p	Iems w r. Mater De Regiona (Boonevi (James F aminants d whethe ninant L town-V m CL) for t average pb in th	ept) al) ille Water) Fork) s are those monitoring er future n evel Goals Washburr Mashburr he 12 e for	UNREGUL Level Det 24.3 25.3 3.90 for which EPA for which EPA is to assist El egulation is wa have not bee	ATED CC tected 2 3 7 6 A has not PA in dete arranted. en establi rs	DNTAMIN Unit ppb establish ermining MCLs (N shed for D: 2012	ANTS	CLG 70 0 king wate urrence of n Contan gulated of CTIVE A ng disinf	Major By-pro disinfe er stand of unreg ninant L contami ACTIO ection p er the l	y have an Sources in oducts of drin ction lards. The julated cont evels) and nants. N: procedures a	increased ris
experience prob of getting cance Contami Chloroform (Booneville Chloroform (James Fork Bromodichloromethane Bromodichloromethane • Unregulated conta unregulated conta drinking water and (Maximum Contar	Iems w r. Mater De Regiona (Boonevi (James F aminants d whethe ninant L town-V town-V m CL) for t average ypb in t average ypb in	ith their l ept) ille Water) Fork) s are those monitoring er future n evel Goals Washburr he 12 e for he the 12 e for	UNREGUL Level Det 24.3 25.3 3.9 for which EPA for which EPA is to assist El egulation is wa have not bee Water User FROM:	ATED CC tected 2 3 7 6 A has not PA in deta arranted. en establi rs	DNTAMIN Unit ppb ppb establish ermining MCLs (N shed for D: 2012	Ants Ants Ants Ants Ants Antiped Arinh the occur Maximun all unree Aaximun all unree Reviewi a solutio product Reviewi a solutio	CLG 70 0 king wate urrence of n Contan gulated of contan gulated of contan	Major By-pro disinfe er stand of unreg ninant L contami ACTIO ection p er the l distribut	y have an Sources in oducts of drin inducts of drin inducts. The julated cont evels) and nants. N: procedures a evels of dis- tion system procedures a	increased risi

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