Kimzey Regional Water District 2019 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. Our sources are DeGray Lake and Ouachita River. Water from DeGray Lake is treated at the Bismarck Treatment Plant and water from Ouachita River is treated at the Jones Mill Treatment Plant. Customers west of the Oak Grove Pump Station on Highway 84 receive water primarily from the Bismarck Treatment Plant. During emergency situations water can be pumped between distribution systems, and several times per year the valve between distribution systems is exercised, which allows some mixing of the water.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Kimzey Regional Water District. The 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 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 Jeff Ford, General Manager, at 501-350-5289. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the third Tuesday of each month at 7:00 PM at the Kimzey Business office.

TEST RESULTS

We 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, 2019. 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.

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Contaminant	Violatio Y/N	on	Lev	vel Detected		Unit	(MCLG (Public Health Goal)		al)	MCL (Allowable		el)	Major Sources in Drinking Water	
Turbidity (Bismarck Plant)	N	N Lowest m samples r		onthly % of meeting the	of						exces	surement in of 1 NTU es a violation			
Turbidity (Jones Mill Plant)	Highest result: N Lowest samples		ighest y sult: 0. owest m amples i	dity limit: 99% est yearly sample t: 0.27 st monthly % of eles meeting the dity limit: 100%		NTU		NA		s o	A value less than 95 samples meeting th of 0.3 NTU, constitu violation		the limit	nit a	
 Turbidity i effectivene 					of wa	ter. It	is r	nonitored	by c	our si	ippliers b	ecause	e it is a g	ood indicator of the	
					ADIO	ACTIV	E CO	ONTAMIN	ANT	S					
Contaminant	Contaminant Violat		Lev	el Detected	Unit	Nit l		MCLG Health Goal) (A			MCL Ilowable Level)		Major Sources in Drinking Wat		
Combined radium (226 + 228) (Bismarck Plant)		N	Annual	t Running Average: 1.2 0 – 2.4	pCi/l	i/L		0			5 Erosion of na		on of nat	atural deposits	
<u></u>	/				INOR	GANIC	CO	NTAMINA	NTS	;					
Contaminant			lation Y/N			Unit		MCLG (Public Health Goal)		Goal)			Major	Major Sources in Drinking Water	
Fluoride (Bismarck Plant) Fluoride			N	Average: 0.8 Range: 0.69 Average: 0.7	e: 0.69 - 1.12		n	4			4		Erosion of natural deposits; water additive which		
(Jones Mill Plant)			Ν	Range: 0.49									promotes strong teeth		
Nitrate [as Nitrogen] (Bismarck Plant)			N	0.24		ppm		10			10		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
				LEA	D AND	COPP	ER 1		TOR	RING					
Contaminant	t of	Number of Sites Sampled			ercenti esult	llt				ction			Major Sources in Drinking Water		
Lead	30				.001		ppm			0.015		Corrosion from household plumbin		1 3	
	ners' tap		duced	monitoring sc			equi				every th	ree ye	ars for le	n of natural deposits ad and copper at ired monitoring	
								IC CARB							
set by USI	EPA wer	e met.	TOC h	as no health e e by-products	ffects. includ	Howe e triha	ever Iom	, Total Or ethanes (gani THM	ic Car ls) an	bon prov	des a	medium	noval requirements for the formation of ;).	
			ation Level Detected			.i+	TED DISINFEC MRDLG (Public Health		MR		MRDL wable Leve			ources in Drinking Water	
Chlorine (Distribution Systems)		N	Average: 1.21		, pp	Ì		4		4		Wa	Water additive used to control microbes		

	BY-	PRODUCTS	OF DRINKIN	G WATER DISI	NFEC	TION	1			
Contaminant	Violation Y/N		Level Detec	ted	Un	it	MCLG (Public Health Goal)	MCL (Allowable Level)		
HAA5 [Haloacetic Acids]	N	5	nnual Average:	: 33	ppb		0	60		
(Distribution Systems)	-	Range: 20					-			
TTHM [Total Trihalomethanes (Distribution Systems)	¹ N	Range: 7		5			NA	80		
 While only the upper e containing Trihalometh central nervous system 	anes in exces	s of the MC	L over many	years may expe						
	, ,			ONTAMINANTS						
Contaminant	Level De	tected	Unit	MCLG (Public Health Go	oal)		Major Sources in Drinking Water			
Chloroform (Bismarck Plant)	8.91		- ppb	70		- By-products of drinking water disinfection				
Chloroform (Jones Mill Plant)	Average: 20.1 Range: 18.7 – 21.6									
Bromodichloromethane (Bismarck Plant)	1.44		nnh	0						
Bromodichloromethane (Jones Mill Plant)	Average: 3.5 Range: 3.38		ppb	0						
 Unregulated contamina unregulated contamina water and whether futu Contaminant Level Goa 	nt monitoring are regulation	is to assist is warrante	t EPA in deter ed. MCLs (Ma	mining the occu ximum Contami	rrence nant	e of ι Leve	unregulated contami	nants in drinking		
				CONTAMINANT	-	_				
		Unregulat		ant Monitoring	Rule 4	4)				
Contaminant	Level Detect	l he	Meta Unit		ior S	ource	es in Drinking Water			
Manganoso (UCMP4)	Average: 4.51 Range: 0.71 – 8		ppb Natura and fir	Naturally occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical; essential nutrient.						
do not have health	based standar ure regulatory	ds set und actions to	ler the Safe D protect publi	rinking Water Ao c health. The pu	ct. Dr	inkin	cted drinking water o g water occurrence i enefit from informatio	nformation is		

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