# Guy Water Works 2016 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 Community Water System whose source is Greer's Ferry Lake.

## How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Community Water System. 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 low susceptibility to contamination. You may request summaries of the Source Water Vulnerability 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 Greg Hooten, Water Superintendent, at 501-679-4585. 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 Monday of each month at 6:00 PM at Guy City Hall.

## TEST RESULTS

We and Community Water System 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>, 2016. 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.

			MIC	ROBIO	OGIC	AL CONT	AMIN	ANTS	6			
Contaminant	Violati Y/N		Level Detected		Unit	-	MCLG (Public Health Goal)			MCL able Level)	Major Sources in Drinking Water	
Total Coliform Bacteria (Guy Waterworks)	Ν	None			esent		0			e sample per nonth	Naturally present in the environment	
· / /					TUR	BIDITY						
Contaminant	Violati Y/N		etected	ected		MCLG (Public Health Goal)		bal)		MCL able Level)	Major Sources in Drinking Water	
Turbidity			Highest yearly sample result: 0.22						Any mea	surement in		
(Community Water)	N	samples me	Lowest monthly % of samples meeting the turbidity limit: 100%		NTU	NA				of 1 NTU es a violation	Soil runoff	
			diness	of wate	r. We	and Con	way m	nonito	or it becau	ise it is a good	d indicator of the	
effectivenes	s of our filt	ration systems.										
			]	INORG/	ANIC (	CONTAM	INANT	ſS				
Contaminant	Violati Y/N		tected	Unit	(Pub	MCLG blic Health Goal)		MCL (Allowable Level)		Major Sources in Drinking Water		
Nitrate [as Nitrogen] (Community Water)	N	0.2	1	ppm		10	-	10		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
Fluoride N Community Water)			Average: 0.74 Range: 0.61 – 0.94			4		4		Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
						R TAP M	ONITO	ORINO	G			
Contaminan	-	Number of Sites over Action Level		90 <sup>th</sup> Percentile Result		Unit	Action L		_evel	Major Sources in Drinking Water		
Lead (Guy Waterworks)		0	0.005			ppm	0.01		-	Corrosion from household plumbing systems; erosion of natural deposits		
Copper (Guy Waterworks)		0		:0.20		ppm		1.3	;	systems; eros	ion of natural deposits	
We are curre											lead and copper at the mitoring period is in	
						ANIC CA						
removal req	uirements ides a med	ium for the forn	ere met	. Total	organi	ic carbon	(TOC)	) has	no health	effects. How	16 and all TOC vever, total organic rihalomethanes (THMs)	
			1	REGULA		DISINFE	СТАНТ	rs				
Disinfectant	Disinfectant Violation Y/N		ed	Unit	I	<b>MRDLG</b> c Health Go			ARDL able Level)	Major Sou	Major Sources in Drinking Water	
Chlorine (Guy Waterworks)	N	Average: 0.52 Range: 0.25 - 0.8		ppm		4	4		4	Water addit microbes	ive used to control	

BY-PRODUCTS OF DRINKING WATER DISINFECTION										
Contaminant	Violation Y/N	Level Detected			Unit		<b>MCLG</b> (Public Health Goal)	MCL (Allowable Level)		
HAA5 [Haloacetic Acids] (Guy Waterworks)	Highest Average: 41 Range: 37.1 - 46.9				pb	0	60			
TTHM [Total Trihalomethanes] (Guy Waterworks)	N	Highest Average: 53 Range: 33.4 – 62.4			ppb		NA	80		
Chlorite (Community)	N	Average: 2 Range: 14			ppb		800	1000		
UNREGULATED CONTAMINANTS										
Contaminant	Levels Detected		Unit	<b>MCLG</b> (Public Health Goal)		Major Sources in Drinking Water				
Chloroform 12.		5 ppb		70		By-products of drinking water disinfection				
Bromodichloromethane (Community Water)	1.92		ppb	0		by-products of drinking water distribution				
<ul> <li>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 Levels) and MCLGs (Maximum Contaminant Levels) and MCLG (Ma</li></ul>										

Contaminant Level Goals) have not been established for all unregulated contaminants. This institution is an equal opportunity provider and employer.

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