WEST PLAINS PWS

Public Water System ID Number: MO4010853

2018 Annual Water Quality Report

(Consumer Confidence Report)

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

Attencion!

Este informe contiene información muy importante. Tradúscalo o prequntele a alguien que lo entienda bien.

[Translated: This report contains very important information. Translate or ask someone who understands this very well.]

What is the source of my water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Our water comes from the following source(s):

Source Name	Туре
HOOVER WELL W14	GROUND WATER
CASS AVE W6	GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER
CHERRY ST W5	GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER
JUNCTION 14 W12	GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER
MINNESOTA ST-W9	GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER
OREGON ST W7	GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER
WELL 13 BASSLER WELL	GROUND WATER

Source Water Assessment

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available on the internet at http://drinkingwater.missouri.edu/swip/swipmaps/pwssid.htm. To access the maps for your water system you will need the State-assigned identification code, which is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

Why are there contaminants in my water?

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 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 (800-426-4791).

Contaminants that may be present in source water include:

- A. <u>Microbial contaminants</u>, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- B. <u>Inorganic contaminants</u>, such as salts and metals, which can be naturallyoccurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. <u>Pesticides and herbicides</u>, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. <u>Organic chemical contaminants</u>, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- E. <u>Radioactive contaminants</u>, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO4010853 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further March 2, 2019

explained later in this report.

How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at <u>417-256-7176</u> to inquire about scheduled meetings or contact persons.

Do I need to take any special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Terms and Abbreviations

Population: 12000. This is the equivalent residential population served including non-bill paying customers.

90th percentile: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level.

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

HAA5: Haloacetic Acids (mono-, di- and tri-chloracetic acid, and mono- and dibromoacetic acid) as a group.

LRAA: Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

MCLG: Maximum Contaminant Level Goal, or 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.

MCL: Maximum Contaminant Level, or 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.

n/a: not applicable.

nd: not detectable at testing limits.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Range of Results: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Highest Test Result or Highest Value.

SMCL: Secondary Maximum Contaminant Level, or the secondary standards that are non-enforceable guidelines for contaminants and may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.

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Contaminants Report

WEST PLAINS PWS will provide a printed hard copy of the CCR upon request. To request a copy of this report to be mailed, please call us at 417-256-7176. The CCR can also be found on the internet at www.dnr.mo.gov/ccr/MO4010853.pdf.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative. No data older than 5 years need be included. If more than one sample is collected during the monitoring period, the Range of Sampled Results will show the lowest and highest tested results. The Highest Test Result, Highest LRAA, or Highest Value must be below the maximum contaminant level (MCL) or the contaminant has exceeded the level of health based standards and a violation is issued to the water system.

Regulated Contaminants

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Regulated Contaminants	Collection Date	'	Highest Test Result	Range of Sampled Result(s) (low – high)		Unit	MC	L I	MCLG		Typical Source		Typical Source			
BARIUM	5/31/2018		0.0392	0.0392		ppm	2		2	Di	Discharge of drilling wastes; Discharge from metal refinerion					
NITRATE- NITRITE	5/31/2018		1.15	1.15		ppm	10)	10	Runoff from fertilizer use; Leaching from septic tanks, se Erosion of natural deposits						
Disinfection Byproducts	Sample Po	int	Monitor Perio	•	Highes LRAA	RAA RE		Sam ult(s) high	•	Unit		CL	MCLG	Typical Source		
(HAA5)	DBPDUAL-	01	2018	}	6	6 0-0		- 0		ppb	b 60 0 Byproduct of drinking war		0	Byproduct of drinking water disinfection		
(HAA5)	DBPDUAL-	02	2018	3	4		0 - 11.1			ppb	6	60 0 Byproduct of drinking water		Byproduct of drinking water disinfection		
TTHM	DBPDUAL-	01	2018	3	16		8.57	- 17.4		ppb	8	30	0	Byproduct of drinking water disinfection		
TTHM	DBPDUAL-	02	2018	3	24		12 - 27.4			ppb	8	30	0	Byproduct of drinking water disinfection		
TOC Collection Date Value					Unit	t T	Г	Typical Source								
CARBON, T	OTAL	5/9	9/2018	0.6	33		0.63		MG/I	L 0		Naturally present in the envi		turally present in the environment		
Lead and Copper	Date		of you	ır wat	tile: 90% er utility less thar	ity Results		•	Unit	AL	L	Sites Over AL	Typical Source			
COPPER	2015 - 20	<u></u> 17		0.064	0.0647			0.00506 - 0.28		0.00506 - 0.286		ppm	1.3	1.3 0		Corrosion of household plumbing systems
LEAD	2015 - 20	17		2.07			1.01 - 10.9		.01 - 10.9		15 0 Corrosion of household plum		Corrosion of household plumbing systems			

Radionuclides			Collection Date	Highest Value	Range of Sampled Result(s)	Unit	MCL	MCLG	Typical Source		
GROSS ALPHA	PARTICLE ACTIVI	TY	10/19/2015	4.5	4.5	pCi/l			Erosion of natural deposits		
Turbidity	Turbidity										
Turbidity is a measure	Turbidity is a measure of cloudiness of water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system.										
% of samples in compliance with Standard	Months Occurred	Monitorii Violatio			Month Occurred	Sources		es	In Compliance		
100	12	NO		0.24	OCT		SOIL RUI	NOFF	YES		
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Violations and Health Effects Information

During the 2018 calendar year, we had the below noted violation(s) of drinking water regulations.

 Compliance Period
 Analyte
 Type

 No Violations Occurred in the Calendar Year of 2018

Additional Required Health Effects Language: Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Special Lead and Copper Notice: 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. WEST PLAINS PWS 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 (800-426-4791) or at http://water.epa.gov/drink/info/lead/index.cfm.

You can also find sample results for all contaminants from both past and present compliance monitoring online at the Missouri DNR Drinking Water Watch website http://dnr.mo.gov/DWW/indexSearchDNR.jsp. To find Lead and Copper results for your system, type your water system name in the box titled Water System Name and select *Find Water Systems* at the bottom of the page. The new screen will show you the water system name and number, select and click the Water System Number. At the top of the next page, under the *Help* column find, *Other Chemical Results by Analyte*, select and click on it. Scroll down alphabetically to Lead and click the blue Analyte Code (1030). The Lead and Copper locations will be displayed under the heading *Sample Comments*. Scroll to find your location and click on the *Sample No.* for the results. If your house was selected by the water system and you assisted in taking a Lead and Copper sample from your home but cannot find your location in the list, please contact WEST PLAINS PWS for your results.

Uncorrected Significant Deficiencies							
Date Identified	Facility	Category Code	Category Description				
11/14/2016	WATER SYSTEM	OTRO	Chief Treatment Operator				

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2018 Annual Water Quality Report (Consumer Confidence Report) Optional Monitoring (not required by EPA) Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Your Water System Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
ALKALINITY, CACO3 STABILITY	5/31/2018	298	298	MG/L	
ALKALINITY, TOTAL	11/5/2018	258	234 - 258	MG/L	
ALUMINUM	5/31/2018	0.0556	0.0556	MG/L	0.05
CALCIUM	5/31/2018	56.5	56.5	MG/L	
CHLORIDE	5/31/2018	7.04	7.04	MG/L	250
HARDNESS, CARBONATE	5/31/2018	265	265	MG/L	
MAGNESIUM	5/31/2018	30	30	MG/L	
PH	5/31/2018	7.54	7.54	PH	8.5
POTASSIUM	5/31/2018	1.47	1.47	MG/L	
SODIUM	5/31/2018	2.79	2.79	MG/L	
SULFATE	5/31/2018	11.7	11.7	MG/L	250
TDS	5/31/2018	276	276	MG/L	500
ZINC	5/31/2018	0.0268	0.0268	MG/L	5

Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply.