MILLSTADT

IL1630850

Annual Water Quality Report for the period of January 1 to December 31, 2015

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

The source of drinking water used by MILLSTADT is Purchased Surface Water

For more information regarding this report contact:

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Phone 618-791-1941

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of Drinking 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, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and

plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

 Pesticides and herbicides, which may come from variety of sources such as agriculture, urban storm vater 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 storm water runoff, and septic systems.

 Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. 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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

serious health problems, especially for pregnant If present, elevated levels of lead can cause Drinking Water Hotline or at minimize exposure is available from the Safe water, testing methods, and steps you can take to water tested. Information on lead in drinking drinking or cooking. If you are concerned about sitting for several hours, you can minimize the plumbing components. When your water has been We cannot control the variety of materials used associated with service lines and home plumbing. is primarily from materials and components nttp://www.epa.gov/safewater/lead lead in your water, you may wish to have your women and young children. Lead in drinking water for 30 seconds to 2 minutes before using water otential for lead exposure by flushing your tap ij

CC 02-MASTER MEJER Source warer Name FF IL1635040 TP05 Type of Water S. Report Status S SIDE IL 158 1.5 MINE INT 163 Location

Source Waler Name INTAKE MISSISSIPPI -CHOUTEAU ISLAND INTAKE (60237) MISSISSIPPI RIVER Type of Water MS MS Report Status Location N FRONT ST, E ST LOUIS

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We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 618-791-1941. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA. website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl

ftp://ftp.umesc.er.usgs.gov/pub/gis_data/oil_spill. planning and spill reporting a major concern in this watershed. Information concerning spill response planning on the Mississippi River may be found at the U. S. EPA website www.epa.gov/region5/oil, and additional data can also be downloaded at the U. S. Geological Survey's FTP site for the IAWC-East St. Louis surface water intake. waterways. Approximately 92% of these spills occurred along the Mississippi and/or the Illinois River. include the Upper Mississippi River, Illinois River Waterway, and the Ohio River. Along these waterways are numerous facilities that load and unload hazardous materials. Analysis of reported spills indicate that between 1974 and 1989, 794 accidental spills of hazardous materials occurred along Illinois frequency in the United States in recent years. Illinois has access to 1,116 miles of inland waterway that can handle commercial barge traffic. travel times on major rivers in the United States. Accidental spills of hazardous materials into navigable waterways are a major concern because of their distances of travel on the Mississippi River, critical areas can be extensive. The critical area for the IAWC-East St. Louis intake was determined using data from a joint U. S. Environmental Protection Agency/U. S. Geological Survey project. This project used a computer modeling program (SPARROW) to determine Illinois portion of the Mississippi River Basin contributes to the susceptibility of the TAWC-East St. Louis intakes. With high flow rates and long transportation of these commodities are a major concern, especially when occurring near surface water intakes. In addition, agricultural runoff within the commodities, including manufactured goods, petrochemicals, and pesticides are transported along the river system. sedimentation, filtration, and disinfection. Within the Illinois portion of the Mississippi River Watershed, which is illustrated in Figure 3, many Source of Water: II AMERICAN-EAST ST LOUIS Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, include the Upper Mississippi River, Illinois River Waterway, and the Ohio River. Spills occurring in this critical area will travel to the intake in five hours or less, making contingency Figure 2 shows the critical area of concern (Zone 1) The production, storage, and

Water Quality Test Results

Maximum Contaminant Level Goal or MCLG: 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 Contaminant Level or 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 residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDIGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum residual disinfectant level or 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.

The following tables contain scientific terms and measures, some of which may require explanation.

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

not applicable.

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Definitions:

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Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Regulated Contaminants

Total Trihalomethanes 20	Haloacetic Acids 20 (HAAS) *	Chloramines 12/31	Disinfectants and Colle Disinfection By- Da Products
2015	2015	12/31/2015	Collection High
26	72	₩ -	Highest Level Ra
13.3 - 57.2	6.9 - 18.6	0.56 - 1.6	Range of Levels Detected
No goal for the total	No goal for the total	MRDLG = 4	MCEG
08	60	MRDL = 4	MCT
ਰਕੋਕੋ	qđã	wod	Units
N.	К	N	Violation
By-product of drinking water disinfection.	By-product of drinking water disinfection.	Water additive used to control microbes.	Violation Likely Source of Contamination

Consumer	STATE OF THE PROPERTY OF THE P
Consumer Confidence Rule	TOTAL TOTAL STREET, THE STREET,
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The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.

Violation Type	Violation Begin	Violation End	Violation Begin Violation End Violation Explanation
CCR ADEQUACY/AVAILABILITY/CONTENT	07/01/2015	09/03/2015	We failed to provide to you, our drinking water customers, an annual report that
			adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water.
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Haloacetic Acids (HAA5)*

Some people who drink water conta	ining haloacetic a	cids in excess	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Violation Type	Violation Begin	Violation End	Violation End Violation Explanation
MCL, LRAA	01/01/2015	03/31/2015	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated WCL) for the period indicated.
MCL, LRAA	04/01/2015	06/30/2015	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

Coliform Bacteria

0	Contaminant Level Goal
5% of monthly samples are positive.	Total Coliform Maximum Contaminant Level
0.8	Highest No. of Positive
	Total Coliform Highest No. of Fecal Coliform or E. Total No. of Maximum Positive Coli Maximum Positive E. Coli Contaminant Level Fecal Coliform Contaminant Level Samples
0	cal Coliform or E. Total No. of Coli Maximum
Z	Violation
Naturally present in the environment.	Likely Source of Contamination

Lead and Copper

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

Lead			Copper		Lead and Copper	
09/23/2013			09/23/2013		Date Sampled	
0			1.3		MCLG	
15			1.3	(AL)	Action Level	
ъ			0.137	Percentile	90th	
 0			L)	AL	# Sites Over	
ਧੰਧੰ			wdd		Units	
N			N		Violation	The second secon
Corrosion of household plumbing systems; Erosion of natural deposits.	plumbing systems.	wood preservatives; Corrosion of household	Erosion of natural deposits; Leaching from		Likely Source of Contamination	CONTRACTOR OF THE COURT OF THE PARTY OF

Water Quality Test Results

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Definitions:

goal or MRDLG:

na:

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milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Regulated Contaminants

Gross alpha excluding radon and uranium	Beta/photon emitters	Radioactive Contaminants	Sodium	Nitrate [measured as Nitrogen]	Manganese	Fluoride	Inorganic Contaminants	Total Trihalomethanes (TTHM)	Haloacetic Acids (HAA5)*	Chloramines	Disinfectants and Disinfection By-Products
05/20/2014	05/20/2014	Collection Date	2015	2015	2015	2015	Collection Date	2015	2015	12/31/2015	Collection Date
1. 5	4,4	Highest Level Detected	17	ហ	20	, , ,	Highest Level Detected	29	23	22,9	Righest Level Detected
1.5 - 1.5	4.4 - 4.4	Range of Levels Detected	16.8 - 17	2.62	15 - 20	1.11 - 1.13	Range of Levels Detected	15.7 - 41.3	8.2 - 26.7	2 - 3	Range of Levels Detected
0	Ö	MCLG		10	150	Ÿ	MCLG	No goal for the total	No goal for the total	MRDIG = 4	MCLG
15	50	MCL		10	150	4.0	MCL	08	60	MRDL = 4	MCL
pci/L	mrem/yr	Units	wđđ	mđđ	ਰੰਗੋ	uďď	Units	ਧਰੋਕੋ	ąąą	ਸ਼ਹੰਹ	Units
쩞	N	Violation	N	N	N	N	Violation	N	Z	N	Violation
Erosion of natural deposits.	Decay of natural and man-made deposits.	Likely Source of Contamination	Etosion from naturally occuring deposits: Used in water softener regeneration.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Likely Source of Contamination	By-product of drinking water disinfection.	By-product of drinking water disinfection.	Water additive used to control microbes.	Violation Likely Source of Contamination

Turbidity

	Highest single measurement	
7725	1 NIU	Limit (Treatment Level Detected Technique)
	0.23 NTU	Level Detected
	N	Violation
	Soil runoff.	Likely Source of Contamination

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

	Lowest monthly % meeting limit	
	 0.3 NTU	
	100%	
	M	
The state of the s	Soil runoff.	

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Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.