Annual Drinking Water Quality Report

MASCOUTAH	Source of Drinking Water	Drinking water, including bottled water, may reasonably be expected to contain at least small			
IL1630800	The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water	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.			
Annual Water Quality Report for the period of January 1 to December 31, 2019	travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can				
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.	pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:	In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided			
The source of drinking water used by	 Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment 	by public water systems. FDA regulations establish			
MASCOUTAH is Purchased Surface Water	plants, septic systems, agricultural livestock operations, and wildlife.	limits for contaminants in bottled water which must provide the same protection for public health.			
For more information regarding this report contact:	- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or	Some people may be more vulnerable to contaminants in drinking water than the general population.			
Name Larry Rasch	domestic wastewater discharges, oil and gas production, mining, or farming.	Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have			
Phone(618) 779-5513	 Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses. 	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			
Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.	 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. 	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).			
	 Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities. 	If present, elevated levels of lead can cause serious health problems, especially for pregnan- women and young children. Lead in drinking wate:			
		women and young confident. Lett in drinking water is primarily from materials and components associated with service lines and home plumbing. We 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.

So	urce Water Information					MASCOUTAH
So	urce Water Name		Type of Water	Report Status	Location	IL1630800
CC	01-MASTER METER 1	FF IL1635090 TP01	SW		SE CBR CHURCH AND RAII	LWAY STS (BS MM)
CC	02-MASTER METER 2	FF IL1635090 TP01	SW		E OF MID AMERICA AIRPO	DRT (ADJ TO 0.5 MG SLM BT)

Source Water Assessment

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 Larry Rasch at (618) 779-5513. 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.

Source of Water: S L M WATER COMMISSION 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, sedimentation, filtration, and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

2019 Regulated Contaminants Detected

MASCOUTAH

Lead and Copper

IL1630800

Definitions:

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 safety.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/03/2018	1.3	1.3	0.383	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/03/2018	0	15	4.6	0	ppb	Ν	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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 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 residual disinfectant level or 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 or 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.
mrem:	millirems per year (a measure of radiation absorbed by the body)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

MASCOUTAH

Regulated Contaminants

IL1630800

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	2019	1.9	1.9 - 1.9	MRDLG = 4	MRDL = 4	ppm	Ν	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2019	46	24.4 - 64.4	No goal for the total	60	ppb	Ν	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2019	55	26.9 - 65.1	No goal for the total	80	ppb	Ν	By-product of drinking water disinfection.

The City of Mascoutah purchases treated surface water from S L M Water Commission. Per the Environmental Protection Agency CCR rules, following is their result table.

IL1635090

Source Water Information

Source Water Name - Kaskaskia River	Type of Water	Report Status	Location
INTAKE (60023) RIVER INTAKE	SW		RIVER 1/2 MIE OF END OF SUMRFLD-HIBANKS
INTAKE (60024) SIDE CHANNEL RESERV	SW		SIDE-CHANNEL RESE ADJACENT TO PLANT

Source Water Assessment

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 Plant or call our water operator at (618) 566-7100. 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.

Source of Water: S L M WATER COMMISSION 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, sedimentation, filtration, and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

2019 Regulated Contaminants Detected

IL1635090

Lead and Copper

Definitions:

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 safety.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.202	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Water Quality Test Results

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mrem:	millirems per year (a measure of radiation absorbed by the body)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

2								IL1635090
Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	2019	2.6	2.5 - 2.6	MRDLG = 4	MRDL = 4	ppm	Ν	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2019	40	25.1 - 51.7	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2019	56	24.3 - 75.9	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	1	0.88 - 0.88	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2019	0.0394	0.0394 - 0.0394	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2019	0.9	0.89 - 0.89	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2019	28	27.7 - 27.7	150	150	ppb	Ν	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate [measured as Nitrogen]	2019	0.38	0.38 - 0.38	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2019	13	13 - 13			ppm	N	Erosion from naturally occuring deposits. Used in water softener regeneration.

Regulated Contaminants

IL1635090

IL1635090

Radioactive Contaminants	Collection Date	Highest Level F Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	07/13/2015	1.4	1.4 - 1.4	0	5	pCi/L	Ν	Erosion of natural deposits.
Gross alpha excluding radon and uranium	07/13/2015	7.2	7.2 - 7.2	0	15	pCi/L	N	Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level F Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2019	1	0 - 1.7	3	3	ppb	Ν	Runoff from herbicide used on row crops.
Turbidity		Limit (Treatment Technique)	Level Detecte	d Violation	Like	ly Source of (Contaminatic	on
Highest single measure	ment	1 NTU	0.09 NTU	Ν	Soil	runoff.		
Lowest monthly % meeting	ng limit	0.15 NTU	100%	Ν	Soil	runoff.		

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.

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.