

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.

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend our weekly Water Quality Meeting. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please contact Reita Kuster, (309) 782-2445, e-mail: reita.a.kuster.civ@mail.mil. 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://dataservices.epa.illinois.gov/swap/factsheet.aspx. The Illinois EPA has labeled our community water supply Rock Island Arsenal—IL1615387.

Is my water safe?

Last year, we conducted tests for over 80 contaminants for comparison to the maximum contaminant level (MCL) allowed in public drinking water. We are pleased to announce that all sample results were below the MCL threshold. This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

Source of Drinking Water:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells.

Where does my water come from?

The Mississippie River is the water source for the Rock Island Arsenal's water treatment plant. The Mississippi River is considered a surface water source, and the source intake is "INTAKE (31946) MISSISSIPPI RIVER".

Source water assessment and its availability:

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. Within the Illinois portion of the Upper Mississippi River Watershed, many commodities, including manufactured goods, petrochemicals, and pesticides are transported along the river system. The production, storage, and transportation of these commodities are a major concern, especially when occurring near surface water intakes. In addition, agricultural runoff within the Illinois portion of the Upper Mississippi River Watershel intake. With high flow rates and long distances of travel on the Mississippi River, critical areas can be extensive. The critical area for the Rock Island Arsenal 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 travel times on major rivers in the United States. Accidental spills of hazardous materials into navigable waterways are a major concern because of their frequency in the United States in recent years. Illinois has access to 1,116 miles of inland waterway that can handle commercial barge traffic. These include the Upper Mississippi River, Illinois River Waterway, and the Ohio River. Along these waterways are numerous facilities that load and unload hazardous materials. Analyses of reported spills indicate that between 1974 and 1989, 794 accidental spills of hazardous materials occurred along Illinois waterways. Approximately 92% of these spills occurred along the Mississippi and/or the Illinois River. The assessment shows the critical area of concern (Zone 1) for the Rock Island Arsenal intake. Spills occurring in this critical area will travel to the intake in five hours or less, making contingency planning and spill reporting a major concern in this watershed.

Why are there contaminants in my drinking 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. 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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

Where did the contaminants in my drinking water come from?

Contaminants that may be present in source water include: (1) Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife, (2) Inorganic contaminants, 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, (3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses, (4) 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 stormwater runoff, and septic systems., and (5) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

What is the EPA's involvement with my drinking water?

In order to ensure that tap water is safe to drink, EPA prescribes regulations that 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.

Do I need to take 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

What about Lead in my drinking water? Do I need to take special precautions?

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. You can minimize the potential for lead exposure by only using cold water for drinking and cooking and by flushing your tap for 30 seconds to 2 minutes when water has been sitting for several hours. If you are concerned about lead in your water, information on lead, 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 get involved?

Please forward all questions regarding information in this Consumer Confidence Report to Reita Kuster, (309) 782-2445, e-mail: <u>reita.a.kuster.civ@mail.mil</u>. If you have an interest in participating in future discussions that may affect water quality, we request that you contact us at the phone number or e-mail noted above. In response, you will be contacted with the time and place for our next water quality meeting.

Source Water Information:

Type of Water: SW – Surface Water Water System: IL1615387, ROCK ISLAND ARSENAL

	Important Drinking Water Definitions
Terms	Definitions
Action Level	ACTION LEVEL: The concentration of a contaminant which, if exceeded, triggers treatment or other
	requirements which a water system must follow.
ALG	ACTION LEVEL GOAL: The level of a contaminant in drinking water below which there is no known
	or expected risk to health. ALGs allow for the margin of safety.
Avg	AVERAGE: Regulatory compliance with some MCLs are base on running annual average of monthly
	samples.
LRAA	LOCATIONAL RUNNING ANNUAL AVERAGE: The calculated average of the four most recently
	taken quarterly compliance samples for a particular location in the distribution system.
MCL	MAXIMUM CONTAMINANT LEVEL: 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.
MCLG	MAXIMUM CONTAMINANT LEVEL 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.
MRDL	MAXIMUM RESIDUAL DISINFECTANT LEVEL: 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.
MRDLG	MAXIMUM RESIDUAL DISINFECTANT LEVEL GOAL: 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.
NTU	NEPHELOMETRIC TURBIDITY UNITS. Turbidity is a measure of the cloudiness of the water.
	Monitored because it is a good indicator of the effectiveness of filtration systems.
pCi/L	PICOCURIES PER LITER: units of radioactivity
ppb	PARTS PER BILLION: micrograms per liter or one ounce in 7,350,000 gallons of water
ppm	PARTS PER MILLION: milligrams per liter or one ounce in 7,350 gallons of water

Water Quality Test Results: Regulated Contaminants

Lead and Copper

These samples are taken e	every three year	s. They are next	scheduled to	be taken in 2020.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# of Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2017	1.3	1.3	0.16	0	ppm	No.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2017	0	15	6	0	ppb	No.	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfectants and Disinfectant By-Products

Disinfectants	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source
	Date	Average	Levels					of
		Calculated	Detected					Contamination
Chloramines	2019	3.6	3.1 - 3.6	MRDLG	MRDL	ppm	No.	Water additive
				= 4	= 4			used to control
								microbes.
Disinfection By-	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source
Products	Date	LRAA	LRAA's					of
		Calculated	Calculated					Contamination
			in					
			Calendar					
			Year 2019					
Haloacetic Acids	2019	40	25.7 - 61.3	No goal	60	ppb	No.	By-product of
(HAA5)	(Quarterly)			for the	(LRAA)			drinking water
				total.				disinfection.
Total	2019	29	9.03 - 29.4	No goal	80	ppb	No.	By-product of
Trihalomethanes	(Quarterly)			for the	(LRAA)			drinking water
(TTHM)				total.				disinfection.

Inorganic Contaminants

Inorganic	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source
Contaminants	Date	Level	Levels					of
		Detected	Detected					Contamination
Barium	2019	0.011	0.011 -	2	2	ppm	No.	Discharge of
			0.011					drilling wastes;
								Discharge from
								metal refineries;
								Erosion of
								natural deposits.
Manganese	2019	7	6.7 - 6.7	150	150	ppb	No.	This contaminant
								is not currently
								regulated by the
								USEPA.
								However, the
								state regulates
								erosion of natural
								deposits.
Nitrate	2019	2	1.5 -1.5	10	10	ppm	No.	Runoff from
(measured as								fertilizer use;
Nitrogen)								Leaching from
U								septic tanks,
								sewage; Erosion
								of natural
								deposits.
Sodium	2019	16	16 - 16			ppm	No.	Erosion from
								naturally
								occurring
								deposits; Used in
								water softener
								regeneration.

Radioactive Contaminants

Radioactive	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source
Contaminants	Date	Level	Levels					of
		Detected	Detected					Contamination
Combined	10/07/2014	0.752	0.752 -	0	5	pCi/L	No.	Erosion of
Radium			0.752					natural deposits.
226/228								
Gross alpha	10/07/2014	0.034	0.034 -	0	15	pCi/L	No.	Erosion of
excluding			0.034					natural deposits.
radon and								
uranium								

These samples are taken every nine years. They are next scheduled to be taken in 2023.

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.15 NTU	No.	Soil Runoff.
Lowest monthly % meeting limit	0.15 NTU	100%	No.	Soil Runoff.

Information Statement: Turbidity is a measure 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 systems 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. There were no TOC violations during this reporting period.

Additional Army Funded Lead in Drinking Water Testing

Current Army policy requires 20% of Army Family Housing and Child Development Center Buildings be tested for lead in drinking water every fiscal year. Every family housing and childcare building will be sampled at least once in a five year period.

Building Number and	Collection Date	Level Detected	Action Level	Units	Above Action	Likely Source of Contamination
Sample Name					Level	
Q4 - Bath 1A	9/13/2019	2.5	15	ppb	No.	
Q3 - Kit 1A	9/17/2019	2.9	15	ppb	No.	
Q3 - Bath 1A	9/17/2019	5	15	ppb	No.	
Q6 - Bath 1A	9/16/2019	12	15	ppb	No.	Corrosion of household plumbing
Q23 - Kit 1A	9/14/2019	1.1	15	ppb	No.	systems; Erosion of natural deposits.
Bldg. 15 - 4A	9/18/2019	2.8	15	ppb	No.	
Bldg. 15 - 10A	9/18/2019	5.2	15	ppb	No.	
Bldg. 150 - 5A	9/18/2019	2.3	15	ppb	No.	
*The fall			2010	1	1	257 02215 0700 02 07 02227

*The following buildings were also tested in 2019 with no lead detected: Q2357, Q2315, Q709, Q2, Q7, Q2337, Q705, Q34, Bldg. 16.

For more information please contact:

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