Annual Drinking Water Quality Report

EVANSVILLE

IL1570250

Annual Water Quality Report for the period of January 1 to December 31, 2016

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 EVANSVILLE is Surface Water

For more information regarding this report contact:

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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 pick up 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

 Microbial contaminants, such as vituses and bacteria, which may come from sewage treatment 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 a variety of sources such as agriculture, urban storm water runoff, and residential uses.

water 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.

brinking 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.

In order to ensure that tap water is safe to 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 prinking water Hotline (800-426-4791).

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

Source Water Name

KASKASKIA RIVER 0.5 MI E OF RT 3

Type of Water

Report Status Location

WS

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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 City Hall or call our water operator at *85.3.3.4.0.2. 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: EVANSVILLEIllinois 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.

Coliform Bacteria

					monthly sample.	
Maturally present in the environment.	Z	0		ы	1 positive	0
		Samples			Level	
		Fecal Coliform	Contaminant Level		Contaminant	Goal
		Positive E. Coli or	Coli Maximum	Positive	Maximum	Contaminant Level
Likely Source of Contamination	Violation	. Total No. of	Total Coliform Highest No. of Fecal Coliform or E. Total No. of	Highest No. of	Total Coliform	Maximum
-						

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 Definitions:

satety.	oncentration of	a contaminant	which, if excee	ded, triggers	treatment or o	ther require	ments which a	action Tevel. 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	09/24/2015	1.3	1.3	0.761	0	uđđ	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Water Quality Test Results

Definitions:

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

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

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.

system on multiple occasions possible) 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

using the best available treatment technology. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible

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 disinfectant is necessary for control of microbial contaminants The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a

not applicable. 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.

goal or MRDLG:

Maximum residual disinfectant level

Maximum Contaminant Level or MCL:

Level 2 Assessment:

Level 1 Assessment:

Water Quality Test Results

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

Regulated Contaminants

Simazine 2016 0.45 0 - 0.45 4 4 ppb N Herbicide runoff.	Atrazine 2016 0.4 0 - 0.4 3 3 ppb N Runoff from herbicide used	Synthetic organic Collection Highest Level Range of Levels MCLG Units Violation Likely Source of Contamination contaminants Date Detected Detected including pesticides and herbicides	Sodium 2016 20 20 - 20 ppm N Brosion from naturally occuring in water softener regeneration.	Nitrate [measured as Nitrogen] 2016 2 1.86 - 1.86 10 10 ppm N Runoff from fertilizer us septic tanks, sewage; Err deposits.	Fluoride 2016 0.701 0.701 4 4.0 ppm N Erosion of natural deposits; Water which promotes strong teeth; Disch fertilizer and aluminum factories	Barium 2016 0.0598 0.0598 - 0.0598 2 2 ppm N Discharge of drilling was metal refineries; Erosion	Arsenic 2016 1 0.991 - 0.991 0 10 ppb N Erosion of natural deposition of corchards; Runoff from glassical production wastes.	Inorganic Collection Highest Level Range of Levels MCLG Units Violation Likely Source of Contamination Contaminants Date Detected Detected	Total Trihalomethanes 2016 63 13.6 - 115.9 No goal for the total ppb N By-product of drinking wa	Haloacetic Acids 2016 10 1 - 34.4 No goal for 60 ppb N By-product of drinking wa the total	Chloramines 12/31/2016 1.4 1 - 1.5 $MRDLG = 4$ $MRDL = 4$ ppm N Water additive used to co	Disinfectants and Collection Highest Level Range of Levels MCL Units Violation Likely Source of Contamination Disinfection By- Date Detected Detected Detected
moff.	herbicide used on row crops.	e of Contamination	naturally occuring deposits: Used tener regeneration.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	e of Contamination	By-product of drinking water disinfection.		ve used to control microbes.	e of Contamination

Turbidity

Turbidity

Soil runoff.	Z	100%	0.3 NTU	Lowest monthly % meeting limit
Soil runoff.	Z	0.15 NTU	1 NTU	Highest single measurement
			Technique)	i
Likely Source of Contamination	Violation	Level Detected	Limit (Treatment Level Detected	

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.

Violations Table

Chloramines			
Some people who use water contain	ing chloramines we s well in excess o	ell in excess of of the MRDL could	some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who aren't water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.
OT HILL MOUCH CONTRACTOR			
Violation Type	Violation Begin	Violation End	Violation Begin Violation End Violation Explanation
			1
MONITORING, ROUTINE (DBP), MAJOR	01/01/2016	03/31/2016	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period
			indicated.

Total Coliform			
Coliforms are bacteria that are naturally present in the environment and are used as an indicat	aturally present :	in the environmer	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.
COTITOTING Mere round the more semis			
Violation Type	Violation Begin	Violation End	Violation Begin Violation End Violation Explanation
MONITORING (TCR), ROUTINE MINOR	02/01/2016	02/29/2016	We failed to complete all the required tests of our drinking water for the contaminant and period indicated.

the event of a absense again, we will continue to properly submit our required samples. This violation occured between January 1, 2016 and March 31, 2016. medical leave. We have created a schedule of when the samples are to be taken and at what location to ensure that in Monitoring- Routine violation: We missed a monitoring sample due to the individual that collects the samples being on

employee. We have added this sample and location to the list to ensure that it won't be overlooked. Monitoring (TCR)-Routine Minor: As explained above a sample was overlooked due to the absense of above mentioned