Annual Drinking Water Quality Report

BENTON IL0550050

Annual Water Quality Report for the period of January 1 to December 31, 2019

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to to determine where compliance sampling should occur in the future orovide safe drinking water.

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

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, takes, 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 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 o 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.
- 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.

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 provide

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).

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. 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.

Source Water Information

Source Water Name Type of Water Report Status Location CC02 - BENTON MASTER METER FF IL0555100 TP02 NE CORNER GRAND & COPPLE ST

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 at 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, REND LAKE INTER-CITY WATER SYSTEM Illinois EPA considers all surface water sources of public water supply to susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection, primary sources of pollution in Illinois lakes can include agricultura runoff, land disposal (septic systems) and shoreline erosion. 2019 Regulated Contaminants Detected Water Quality Test Results

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

A Level 2 assessment is a very detailed study of the water system to identify potential problems and Level 2 Assessment:

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.

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs Maximum Contaminant Level or MCL: as feasible using the best available treatment technology. Maximum Contaminant Level 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. Goal or MCLG: Maximum residual disinfectant The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of level or MRDL:

a disinfectant is necessary for control of microbial contaminants.

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

mrem: millirems per year (a measure of radiation absorbed by the body)

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. pob: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. A required process intended to reduce the level of a contaminant in drinking water. Treatment Technique or TT:

Regulated Contaminants

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	2019	3	3-3	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids HAA5	2019	25	16 - 36.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection

								_
Total Trihalomethanes	2019	43	17 - 63	No goal for	80	dag	N	By-product of drinking
Tiolai Illiadoriellianes	2013	43	17 - 63	110 godino		PPO		
(TTUM)				the total				water disinfection
(TTHM)				THE LOLL				Water distribution

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation

Chloramines

Violations Table

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 drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.

Violation Type	Violation Begin	Violation End	Violation Explanation			
MONITORING, ROUTINE (DBP), MAJOR	10/01/2019		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.			

Revised Total Coliform Rule (RTCR)

The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headache

Violation Type	Violation Begin	Violation End	Violation Explanation		
MONITORING, ROUTINE, MINOR (RTCR)	12/01/2019		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		

2019 Table of Regulated Contaminants

4	Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
1	Not all sample resu to determine where	lot all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation of determine where compliance sampling should occur in the future										
	*Total Haloacetic Acids	2019	21	16 - 24.8	N/A	60	ppm	No	Water additive used to control microbes.			
	*TTHMs (Total Trihalomethanes)	2019	44	32.7 - 54.7	N/A	80	ppb	N	By-product of drinking water disinfection			
	Cholorite	2019	0.46	0.1 - 0.46	.8	1	ppm	N	By-product of drinking water disinfection			
-	Chloramines	2019	3	2.8 - 3.2	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes			
v	Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
e r	Barium	2019	0.0152	0.0152 - 0.0152	2	2	ppm	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits			
o y	Arsenic	2019	1	0.85 - 0.85	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes			
al	Fluoride	2019	0.6	0.58 - 0.58	4	4	ppm	2	Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer or Aluminum Factory discharge			
	Sodium	2019	18	17.5 - 17.5			ppm	2	Erosion from naturally occurring deposits			
	Nitrate (Measured as nitrogen)	2019	0.13	0.13 - 0.13	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits			
	The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.											
	Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
	Combined Radium 226/228	01-16-2014	0.26	0.26 - 0.26	0	5	pCi/L	N	Erosion from naturally occurring deposits			

Turbidity 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. Definitions: Treatment Techniques: A required process intended to reduce the level of a contaminant in drinking water.

NTU - Nephelometric Turbidy Units

Lowest Monthly % meeting Limit	Limit (Treatment Technique	Violation	Source
100%	0.3 NTU	No	Soil Runoff
Highest Single Measurement	Limit (Treatment Technique	Violation	Source
0.3	1 NTU	No	Soil Runoff

Total Organic Carbon: The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirement set, unless a TOC violation is noted in the violation sections. VIOLATIONS: There were no violations this reporting period.