## **Annual Drinking Water Quality Report**

### City of Berlin ID#0710000

### Year 2020

We are pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is from Upper Floridian Aquifer, ground water: We have two wells. Well #101 pumps 105 gpm. Well #102 pumps 250 gpm.

I am pleased to report that our drinking water meets federal and state requirements.

If you have any questions about this report or concerning your water, please contact **Berlin City Hall at 229-324-2444**. We want our customers to be informed about their water. If you want to learn more, please feel free to contact us during the day at the above number.

City of Berlin routinely monitors for contaminants in your drinking water according to Federal and State laws. This report is for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2020. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Our Source Water Assessment was approved on **February 8, 2012**. Water sources were rated on their susceptibility to becoming polluted. The drinking water supplied to **City of Berlin** customers is produced from two wells or sources.

Well #101 is located at 253 Brice Street in front of the old volunteer fire department building. In the control zone (15-foot radius) there are 2 potential pollution sources, and they are vehicle parking areas and store water runoff. In the management zone (250-foot radius) it has 6 potential pollution sources (PPS) and they are access and secondary roads, electrical transformers, utility poles, and domestic septic systems. Well #102 is located at 329 Cranford Street next to the city public works shed. In the control zone (15-foot radius) there is one PPS present which is vehicle parking areas. In the management zone (100-foot radius) there are 12 PPS present and they are access and secondary roads, electrical transformers, utility poles, storm water runoff, domestic septic systems, abandoned vehicles, auto repair, above ground storage tanks, garbage bin storage, debris pile, and non-domestic septic systems.

The sources of drinking water (both tap and bottled water) include river, 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.

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. **City of Berlin** is responsible for providing high quality drinking water but cannot control the variety of material 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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

Contaminants that may be present in source water include the following:

Microbial contaminants, such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operation and wildlife.

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

Pesticides and herbicides, which may come from a Varity of sources such as agriculture, urban storm water runoff, and residential uses.

Organic chemicals 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.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the number of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protections for the public health.

Please call our office if you have questions.

We at **City of Berlin** work around the clock to provide top quality water to every person. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

## 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 safety.

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

pled MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation Likely Source of Contamination  19 1.3 1.3 0.0925 0 ppm N Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.  19 0 15 2.5 0 ppb N Erosion of natural deposits.									
MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation  1.3 0.0925 0 ppm N	Corrosion of household plumb Erosion of natural deposits.	z	ppb	0	2.5	155	0	09/30/2019	Lead
MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation	Erosion of natural deposits; Le wood preservatives; Corrosion plumbing systems.	Z	ppm	0	0.0925	1,3	1.3	09/30/2019	Copper
MCLG Action Level (AL) 90th Percentile #Sites Over AL Units Violation				and the second s			and the spine of t		
MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation									
	Likely Source of Contamination	Violation	Units	# Sites Over AL	90th Percentile	Action Level (AL)	MCLG	Date Sampled	Lead and Copper

Water Quality Test Results Maximum Contaminant Level or MCL: Avg Definitions: Level 1 Assessment: Regulatory compliance with some MCLs are based on running annual average of monthly samples The following tables contain scientific terms and measures, some of which may require explanation 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

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

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 Goal or MCLG:

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

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

mrem:

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

Water Quality Test Results

ppb:

ppm:

Treatment Technique or TT:

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

# Regulated Contaminants

					2		1.7.1.1.	
Disinfectants and Disinfection  By-Products	Collection Date	Detected	Range of Levels Detected	MCFG	C C	Oniss	Violation	Likely Source of Contamination
Chlorine	2020	->	1-1	MRDLG = 4	MRDL = 4	ppm	z	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2020	13	13 - 13	No goal for the total	60	ppb	z	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2020	28	27.6 - 27.6	No goal for the total	80	ppb	z	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
Barium	2020	0.051	0 - 0.051	2	2	ppm	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2020	0.26	0.26 - 0.26	4	4.0	ppm	Z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	04/09/2018	1.89	1.89 - 1.89	0	ڻ.	pCi/L	Z	Erosion of natural deposits.