



2020 WATER QUALITY REPORT



Beaver Dam Lake Water System

Public Water Supply ID# NY3503550

January 1 to December 31, 2020

This report complies with Part 5-1.72, New York State Sanitary Code (10 NYCRR) and federal Consumer Confidence Report regulations (40 CFR Part 141, Subpart O).

Introduction:

New York American Water (NYAW) is issuing this report describing the quality of drinking water supplied to customers of the Beaver Dam Lake Water System. To comply with State regulations, American Water will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or concerning your drinking water, please contact our customer call center at 877-426-6999, or at NewYorkAmWater.com. We want you to be informed about your drinking water

A Message from the New York American Water President



To Our Valued Customer:

Thank you for the opportunity to serve you. I am pleased to share our **Annual Water Quality Report** with you – this is our report card on the quality of the drinking water delivered to our customers. The report shows that we continue to supply you with water that meets or surpasses all county, state, and federal water quality standards. We encourage our customers to review this report as it provides important details about the source and quality of your drinking water between January and December 2020.

New York American Water invests in our infrastructure to ensure the delivery of quality drinking water. This includes the facilities and technology needed to draw water from the source and treat it, along with miles and miles of pipeline hidden below the ground to bring water to your tap. In addition, our plant operators, water quality experts, engineers and maintenance crews work around the clock to provide you with quality water.

Delivering safe, reliable water service requires significant investment to maintain and upgrade aging facilities. **In 2020, we invested approximately \$62 million in system improvements across the state.** New York American Water is also making important investments in water treatment technology to comply with New York State Department of Health's new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA and PFOS.

The COVID-19 public health emergency highlighted how essential water is for public health. We remain steadfast in our commitment to delivering safe and reliable water service while maintaining a safe environment for our employees and customers. New York American Water extends our sincerest gratitude to our field employees as well as all frontline workers and essential employees who are on the job and keeping life flowing. Thank you!

Sincerely,

Lynda DiMenna
President, New York American Water



About New York American Water

New York American Water, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water company in New York, providing high-quality and reliable water and/or wastewater services to approximately 350,000 people.

About American Water

With a history dating back to 1886, American Water is the largest and most geographically diverse publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater, and other related services to more than 14 million people in 46 states and Ontario.

Where does our water come from?

In general, 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 activities. Contaminants that may be present in source water include microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to promote public health, the State and the EPA prescribe regulations which limit the number of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The NYAW Beaver Dam Lake water system serves 147 homes located in the Towns of New Windsor & Cornwall N.Y. The water source is groundwater drawn from three (3) drilled wells. The depths are 328', 225', & 600' deep respectively. Water treatment includes: a membrane filtration system and disinfected with sodium hypochlorite. Booster pumps maintain the volume of the water storage tank.

The NYSDOH has completed a source water assessment for this system, based on available information. Possible and actual threats to the drinking water sources were evaluated. The state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See "Table of Detected Contaminants" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from three drilled wells. The source water assessment has rated these wells as having a medium to medium-high susceptibility to microbials and nitrates. These ratings are due primarily to the proximity of low-level residential activity that is in the assessment area. In addition, the wells draw from a confined and unconfined aquifer with the estimated discharge area within the selected time of travel and the overlying soils are not known to provide adequate protection from potential contamination. While the source water assessment rates our wells as being susceptible to microbials, please note that our water is filtered and disinfected to ensure that the finished water delivered into your home meets New York State's drinking water standards for microbial contamination.

Are there contaminants in our drinking water?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: Microbial Contaminants, Inorganic Compounds, Pesticides and Herbicides, Organic Chemical Contaminants, Radioactive Contaminants and Disinfectant Byproducts.

It should be noted that all drinking water, including bottled drinking water, may be reasonably 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Orange County Health Department at 845-291-2331.

The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative of the water quality, is more than one year old.

Definitions:

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

Maximum Contaminant Level (MCL): 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 (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 (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 (MRDLG): The level of a drinking water disinfectant below which there is no known or



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expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (µg/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Nanograms per liter (ng/l): Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion – ppt)

N/A: Not applicable.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

Picocuries per liter (pCi/L): A measure of the radioactivity in water

Water Quality Results

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Barium	No	04/23/20	0.11	mg/l	2	MCL = 2	Erosion of natural deposits.
Copper ¹	No	09/2020	90 th = 0.12 Range = ND - 0.14	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems
Lead ²	No	09/2020	90 th = 11.85 Range = ND - 15.0	ug/l	0	AL = 15	Corrosion of household plumbing systems
Nickel	No	04/23/20	1.560	ug/l	100	MCL = 100	Erosion of natural deposits
Sodium	No	04/23/20	74.4	mg/l	N/A	See Note 3	Road salt
Trihalomethanes (TTHMs)	No	08/19/20	26.4	ug/l	N/A	MCL = 80	Byproduct of drinking water disinfection needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Five Haloacetic Acids (HAA5)	No	08/19/20	10.2	ug/l	N/A	MCL = 60	
Distribution System Turbidity ⁴	No	2020	Avg - 1.38 Range = 0.75 - 1.85	NTU	N/A	MCL = 5	Soil runoff.
Turbidity ⁵	No	Every day in 2020	100 % of readings ≤ 0.3	N/A	N/A	TT = 95% of 4hr readings ≤ 0.3 NTU every month	Soil runoff. Note that two of our wells are GWUDI (Groundwater Under the Direct Influence of Surface Water), necessitating filtration.
Turbidity	No	03/20/2020	Max= 0.400	NTU	N/A	TT≤1	
Radionuclides	No						Erosion of natural deposits.
Alpha		04/05/19	0.903	pCi/L	0	MCL= 15	
Beta		04/05/19	2.06	pCi/L	0	MCL= 50	
Uranium		05/14/19	0.868	ug/L	0	MCL= 30	
Radon		05/14/19	16.8	pCi/L	0	MCL= N/A	

Notes:

¹ The level presented represents the 90th percentile of the 5 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, five samples were collected at your water system and the 90th percentile value was the average of the two highest values (0.116 mg/l). The action level for copper was not exceeded at any of the sites tested.

² The level presented represents the 90th percentile of five samples collected. The action level for lead was not exceeded at any of the five sites tested.

³ Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

⁴ Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration system. State regulations require that turbidity must always be below 1 NTU. Our highest single turbidity measurement for the year occurred on 03/20/2020 (0.400 NTU). The regulations also require that 95% of the turbidity samples collected have measurements at or below 0.3 NTU. 100% of readings were below 0.3 NTU. The levels recorded were within the acceptable range allowed and did not constitute a treatment technique violation.

⁵ Five samples are collected per week, averaged for the month, and compared to the MCL; here we report the highest monthly average for the year.



Unregulated Substances*

Contaminant (units)	Date Sampled	Maximum Amount Detected	MCL	Typical Source
Perfluorooctanic acid - (PFOA) (ng/l)	09-10/2020	ND	10 ng/l	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctanesulfonic acid -(PFOS) (ng/l)	09-10/2020	ND	10 ng/l	
1,4 dioxane - (mg/l)	09-10/2020	ND	1 mg/L	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites.

* Samples were not required but were taken as a precaution. The New York State health advisory level was set at 10ng/L for PFOA and PFOS and 1 mg/L for 1,4 dioxane. On August 25, 2020, the regulations were established. These require sampling at Beaver Dam Lake Water System starting February 25, 2021.

What does this information mean?

As you can see by the table, our system had no MCL violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether our drinking water meets health standards.

We are required to present the following information on lead in drinking water:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. It is possible that lead levels in your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. NYAW is responsible for providing high quality drinking water but 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 (1.800.426.4791) or at <http://www.epa.gov/safewater/lead>.

Is our water system meeting other rules that govern operations?

During 2020, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

Do I Need to Take Special Precautions?

Some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, *Giardia* and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

Why Save Water and How to Avoid Wasting It?

Although our system has an adequate amount of water to meet present and future demands, there are several reasons why it is important to conserve water:

- Saving water saves energy and some of the costs associated with both necessities of life.
- Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential fire-fighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. Get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. A slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.



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- Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you can save more than 30,000 gallons a year.
- New York American Water is offering a free 'leak detection kit' for home use. If desired, please call our 24-hour customer call center at 877-426-6999 and request one.

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources. For questions concerning this report or your water quality, please contact Natasha Niola at 516-273-5670 or New York American Water's customer call center at 1-877-426-6999; or on the web at newyorkamwater.com.



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