



2024 Consumer Confidence Report on
Water Quality for 2023

Annual Water Quality Report

Beaver Dam Lake Water System

Public Water Supply ID# NY3503550



Message from the President

Dear Liberty Customers,

At Liberty, our priority is providing you with safe, quality drinking water every single day. We pride ourselves on the investments we make to accomplish this – from improving infrastructure to enhancing our operations – we work around the clock to ensure your drinking water meets and exceeds all Safe Drinking Water Act (SDWA) standards established by the United States Environmental Protection Agency (EPA) and New York State Department of Health (NYSDOH).

We invest responsibly in our water infrastructure because strong infrastructure is a key factor in delivering quality water. Additionally, we have a rigorous water quality program that ensures the water delivered to your home or business is tested by independent laboratories. We send the data from those tests to our local regulators to verify compliance with all applicable SDWA and NYSDOH water regulations.

In this Water Quality Report (Consumer Confidence Report), you will find detailed information regarding the quality of water we provided during the calendar year 2023. The report includes information about the source of your water, the areas we serve, substances found in your drinking water with a detailed description on their source and need for removal. In addition, it outlines our intricate production process and distribution system.

If you have questions about this report, please contact us at 1-877-426-6999 TDD:711. We encourage you to visit our website at www.libertyenergyandwater.com to stay up-to-date and receive tips about water conservation which can help preserve this natural resource for future generations.

Along with the entire Liberty family, I thank you for being a valued customer. We are proud to be your water provider and look forward to serving you for years to come.

Sincerely,
Deborah Franco
President, Liberty New York Water

To request a printed copy of this report, please call us at 1-877-426-6999 TDD:711. This report can also be found at www.libertyenergyandwater.com.

Where Does My Water Come From?

The Beaver Dam Lake water system serves 465 people through 147 service connections. The water source is 3 groundwater wells under the direct influence of surface water (GWUDI) located in the Towns of New Windsor & Cornwall N.Y. Water treatment includes: a membrane filtration system and sodium hypochlorite for disinfection.



Source Water Assessment

The source water assessment has rated all three wells as having a medium-high susceptibility to microbials, and one of the wells as having a medium-high susceptibility to nitrates, industrial solvents, metals, and other industrial contaminants. These ratings are due primarily to the proximity of a permitted discharge facility (industrial / commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) to the wells and low-intensity residential land use practices in the assessment area. In addition, the wells draw from an unconfined aquifer of unknown hydraulic conductivity. The water is disinfected at the well station to ensure that the finished water delivered into your home meets New York State's drinking water standards. A copy of the assessment, including a map of the assessment area, can be obtained by contacting us at the telephone number provided in this report.



What are Drinking Water Standards?

Drinking water standards are the regulations set by the USEPA to control the level of contamination in the nation's drinking water. The USEPA and the NYSDOH are the agencies responsible for establishing drinking water quality standards in New York. This approach includes assessing and protecting drinking water sources; protecting wells and surface water; making sure water is treated by qualified operators; ensuring the integrity of the distribution system; and making information about water quality available to the public. The water delivered to your home meets the standards required by the USEPA and the NYSDOH.

This report describes those contaminants that have been detected in the analyses of almost 200 different potential contaminants, nearly 100 of which are regulated by the USEPA and the NYSDOH. Liberty is proud to tell you that there have been no contaminants detected that exceed any federal or state drinking water standards. Hundreds of samples are analyzed every year by a NYS certified laboratory. Sample results are available on the Table in this report.

This report is intended to provide information for all water users. If received by an absentee landlord, a business, or a school, please share the information

with tenants, employees, or students. We are happy to make additional copies of this report available. You may also access this report on the Liberty web page at www.libertyenergyandwater.com.



Substances That Could be in 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 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 stormwater 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 stormwater runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater 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, the USEPA and the NYSDOH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (USFDA) also establishes limits for contaminants in bottled water that provide the same protection for public health. 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 USEPA Safe Drinking Water Hotline at 1-800-426-4791. For information on bottled water visit the USFDA website at www.fda.gov

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. The USEPA and 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 Drinking Water Hotline at 1-800-426-4791.



Important Health Information

Lead

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. Beaver Dam Lake Water System is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in

plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Liberty NY Water at 1-877-426-6999 TDD:711.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Is Our Water System Meeting Other Rules That Govern Our Operations?

During 2023, Beaver Dam Lake water system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

Testing Results

During the year, Liberty collects water samples to determine the presence of any radioactive, biological, inorganic, or organic contaminants. All of the substances listed in the table below tested under the Maximum Contaminant Level (MCL). Liberty believes it is important you know what was detected, and how much of the substance was present. The state allows the monitoring of certain substances less than once a year because the concentrations of these substances do not change frequently. If a substance was tested and there was no detection, it is not listed in this table. You can find Definitions, Terms and Abbreviations related to this Table in the next section for easy reference.

Beaver Dam Lake 2023 Annual Water Quality Report							
PRIMARY STANDARDS - Health Based							
DISTRIBUTION SYSTEM							
Disinfectant Residuals	Violation? (Yes/No)	Date of Sample	MRDL	MCLG	Range of Detections	Average	Typical Source of Constituent
Chlorine (ppm) ¹	No	2023	4	N/A	0.55 – 3.80	1.67	Water additive used to control microbes.
Disinfection By-Products	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	Range of Detections	Average	Typical Source of Constituent
TTHMs (ppb) ²	No	08/2023	80	N/A	N/A	26	By-product of drinking water disinfection needed to kill harmful organisms. TTHMs are formed when source water contains organic matter.
HAA5 (ppb) ²	No	08/2023	60	N/A	N/A	5.1	
TOC (ppm)	No	2023	TT	N/A	ND – 1.6	0.76	Naturally present in the environment.
Turbidity (NTU) ³	No	06/2023	5	N/A	0.66 – 1.16	0.88	Soil runoff.

Lead & Copper ⁴	Violation? (Yes/No)	Date of Sample	AL	MCLG	Sample Data	Range of Detections	90th % Level	Typical Source of Constituent
Copper (ppm)	No	08/2023	1.3	1.3	0 of the 5 samples exceeded the AL	0.04 – 0.11	0.10	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Lead (ppb)	No		15	0		ND – 3.3	3.0	

ENTRY POINT							
Inorganic Constituents	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	Detections	Typical Source of Constituent	
Barium (ppm)	No	04/2023	2	2	0.1	Erosion of natural deposits; runoff from orchards, glass, and electronics production wastes.	
Sulfate (ppm)	No	04 – 05/2023	250	N/A	46 - 48	Naturally occurring.	
Chloride (ppm)	No	04 – 05/2023	250	N/A	150	Natural occurring or indicative of road salt contamination.	
Turbidity (NTU) ⁵	No	4/25/2023	TT ≤ 1.0	N/A	Max – 0.18	Soil runoff.	
Turbidity (NTU) ⁵	No	2023	TT=95% ≤ 0.3	N/A	100% ≤ 0.3	Soil runoff.	

SECONDARY STANDARDS - Aesthetics							
ENTRY POINT							
Constituent	Violation? (Yes/No)	Date of Sample	Secondary MCL	MCLG	Detections	Typical Source of Constituent	
Sodium (ppm) ⁶	No	04 – 05/2023	N/A	N/A	70 - 80	Naturally occurring; Road salt; Water softeners.	
Nickel (ppb)	No	04/2023	100	100	4.2	Erosion of natural deposits.	
Color	No	04 – 05/2023	15	N/A	20	Large quantities of organic chemicals, inadequate treatment, high disinfectant demand and the potential for production of excess amounts of disinfectant by-	

						products such as trihalomethanes, the presence of metals such as copper, iron and manganese.
Manganese (ppm)	No	04 – 05/2023	0.3	N/A	0.06 - 0.09	Naturally occurring; Indicative of landfill contamination.
Odor (TON)	No	04 – 05/2023	3	N/A	1 - 3	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.

Notes:

- 1- Chlorine residual results in the table above represent averages of samples taken at the treatment plant Point-of-Entry location to the distribution system.
- 2- The level detected from the table above for TTHM's and HAA's represent the result from one distribution location sampled. TTHMs include chloroform, bromodichloromethane, dibromochloromethane, and bromoform. HAA5 include mono-, di-, and trichloroacetic acid, and mono- and di-bromoacetic acid.
- 3- Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Distribution Turbidity is a measure of the cloudiness of the water found in the distribution system. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Our highest average monthly distribution turbidity measurement detected during the year (1.16 NTU) occurred in June 2023. This value is below the State's maximum contaminant level (5 NTU).
- 4- 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 lead and copper values detected at your water system. The action level for lead and copper was not exceeded at any of the sites tested.
- 5- Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Our highest single turbidity measurement for the year occurred on 4/25/2023 (0.18 NTU). State regulations require that turbidity must always be less than or equal to 0.3 NTU. The regulations require that 95% of the turbidity samples collected have measurements below 0.3 NTU
- 6- Sodium (mg/l): Water containing more than 20 mg/l of sodium should not be used for drinking by people on a severely restricted sodium diet. Water more than 270 mg/l of sodium should not be used for drinking by people on a moderately restricted diet.



Definitions, Terms and Abbreviations

90th %: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level.

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

HAA5: Haloacetic Acids (mono-, di- and tri-chloroacetic acid, and mono- and di- bromoacetic acid) as a group.

MCLG: Maximum Contaminant Level Goal, or 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.

MCL: Maximum Contaminant Level, or 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.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfectant Level Goal, or 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.

ND: not detectable at testing limits.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.

What Does This Information Mean?

As you can see by the table, our system had no sample limit violations in 2023. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.

Why Save Water? 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 of these 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 firefighting 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. More efficient water use protects our valuable natural resource and conservation is easy. Useful tips for conserving include:

- Turn off the tap when brushing your teeth.
- Consider water and energy-efficient appliances. Upgrade to EPA certified Energy Star and WaterSense appliances to save both on water and energy without sacrificing performance. The USEPA reports that EPA-certified Energy Star washing machines may use 35% less water per load.
- Check every faucet, toilet and showerhead in your home for leaks – 10 percent of homes have leaks that waste 90 gallons or more per day; don't be part of the 10%.

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 save more than 30,000 gallons a year. More conservation tips and leak detection tools can be found at www.libertyenergyandwater.com.

Closing

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 call Liberty Customer Service at 1-877-426-6999 TDD:711; or on the web at www.libertyenergyandwater.com.

Liberty – New York Water

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<p>Spanish Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.</p>	<p>French Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.</p>
<p>Korean 아래의 보고는 귀님께서 드시는 식수에 대한 중요한 정보가 포함되어 있습니다. 번역은 해설되지 않지만 이 보고를 읽은 이해하시는분과 말씀하시기를 바랍니다.</p>	<p>Chinese 这份报告含有非常重要有您喝的次 的资料, 请找懂得这份报告的人翻译 或解释给您听。</p>