

***Annual Drinking Water Quality Report for 2020***  
***Consolidated Water Area***  
***Village of Woodbury***  
***Public Water Supply ID# 3503573***

## **INTRODUCTION**

To comply with State and Federal regulations, the Woodbury Consolidated Water System is issuing this Annual 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. Last year, we conducted hundreds of tests for contaminants. None of those sampled contained contaminants at a level higher than the State allows. We are proud to report that our system has never violated a maximum contaminant level or any other water quality standard. 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 your drinking water, please contact Michael Phillips, Water Administrator (845-928-9514 x1256). We want you to be informed about your drinking water. If you want to learn more, please attend any of the regularly scheduled Village Board meetings on the second and fourth Thursdays of each month.

## **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 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 ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount 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 Consolidated Water System's water supply is obtained from a total of six wells. Five (5) wells are located in Highland Mills (two rock wells and three sand and gravel wells) and one (1) bedrock well is located on Sweet Clover Road west of Route 32.). All well water is treated by disinfection with chlorine to destroy any microorganisms that might find their way into the water supply prior to distribution.

## **Source Water Assessment**

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water resource were evaluated. This 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 customers 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.

Trout Brook Wells – This well water supply is derived from one (1) well north of Trout Brook Road.

Highland Mills Wells – This well water supply is derived from five (5) wells in Highland Mills near Hunter Street and Pine Hill Road.

Independent source water assessment for the Highland Mills wells has rated these wells as having a medium susceptibility to microbials and nitrates. These ratings are due primarily to the close proximity of SPDES permitted

discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and low-level residential activity located in the assessment area. In addition, the wells draw from a confined aquifer where the estimated recharge area within the selected time of travel and the overlying soils may not 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 disinfected to ensure that the finished water delivered into your home meets New York State's drinking water standards for microbial contamination.

A copy of the Highland Mills assessment, including a map of the assessment area, can be obtained by contacting the Water Department, as noted in this report.

## **FACTS AND FIGURES**

Our water system serves a population of approximately 10,000 people through nearly 3,000 service connections. The total amount of water produced in 2020 was 333.3 million gallons. The daily average water treated and pumped into the distribution system was 913,000 gallons per day. Our highest single day was 1,367,000 gallons. The amount of water delivered to customers was 279.1 million gallons. This leaves an unaccounted for total of 54.2 million gallons. The difference accounts for an average unaccounted portion of approximately 148,524 gallons per day (16.26%) which can be attributed primarily to watermain breaks, hydrant flushing, fire department usage, normal system losses, inaccuracies of water meters and other un-metered use. In 2020, the annual average water charge for a typical residential user was \$210.00.

## **ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, asbestos, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below lists 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, are more than one year old.

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).

Last year, we conducted tests for hundreds of contaminants. We detected only those contaminants listed in the table below and none were at a level higher than the State allows.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Barium Well # 1,2,3 & 6 Wells # 5 Trout Brook PH	No No No	9/19/2018 9/19/2018 9/23/2020	0.024 0.038 0.0194	mg/l <sup>1</sup>	2	MCL=2	Erosion of natural deposits
Chloride Well # 5	No	4/2012	122	mg/l	N/A	MCL=250	Indicative of road salt contamination
Sulfate Wells #1,2,3 & 6 Well # 5 Trout Brook PH	No No No	9/19/2018 9/19/2018 9/23/2020	24.9 19.1 14.7	mg/l	N/A	MCL=250	Naturally occurring
Manganese Well # 5 Well #1, 2, 3 & 6	No	2/25/2020 8/20/2020	6.1-6.7 20-51.2	ug/l <sup>2</sup>	N/A	MCL=300	Naturally occurring
Nickel Wells #1,2,3 & 6 Well #5 Trout Brook PH	No No No	9/19/2018 9/19/2018 9/23/2020	1.0 2.1 1.2	ug/l	N/A	N/A	Naturally occurring
Copper (see note 3.1) (System Samples)	No	7/2018 through 10/2018	90 <sup>th</sup> = 0.12 (Range = 0.016 to 0.170)	mg/l	1.3	AL=1.3	Corrosion of household plumbing systems
Lead (see note 3.2) (System Samples)	No	7/2018 though 10/2018	90 <sup>th</sup> = 3.2 (Range = ND to 4.1)	ug/l	0	AL=15	Corrosion of household plumbing systems
<b>Inorganics</b>							
Nitrate Well #1,2,3 & 6 Well #5 Trout Brook PH	No No No	9/23/2020 9/23/2020 9/23/2020	0.436 0.696 0.539	mg/l	10	MCL=10	Erosion of natural deposits
Sodium Well #1,2,3 & 6 Well #5 Trout Brook PH	No No No	9/23/2020 9/23/2020 9/23/2020	119 67.1 86.4	mg/l	N/A	NOTE 4	Indicative of road salt contamination
<b>Disinfection Byproducts</b>							
Total Haloacetic Acids see Notes 6 & 7	No	2 Samples/ 8/26/2020	Max = 10.1 (Range: 7.9 – 10.1)	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes (TTHMs) see Notes 5 & 6	No	2 Samples/ 8/26/2020	Max = 33.0 (Range: 32.6 – 33.0)	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.

ND – Non Detect; PH – Pump House

**Notes:**

- 1 Milligrams per liter (mg/l) or parts per million (ppm).
- 2 Micrograms per liter (ug/l) or parts per billion (ppb).
- 3.1 The level presented represents the 90<sup>th</sup> percentile of the 31 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 31 samples were collected at your water system and the 90<sup>th</sup> percentile value was 0.12 mg/l. The action level for copper was not exceeded at any of the sites tested.
- 3.2 The level presented represents the 90<sup>th</sup> percentile of the 31 samples collected. The action level for lead was not exceeded at any of the sites tested.
- 4 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.
- 5 TTHM's - Chloroform, bromodichloromethane, dibromochloromethane, and bromoform.
- 6 This represents the highest value of the samples collected with the range of sample results listed in parenthesis.
- 7 Haloacetic Acids (mono, di-and trichloroacetic acid, and mono- and di-bromoacetic acid).

## DEFINITIONS:

**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 water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect benefits of the use of disinfectants to control microbial contamination.

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

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

## WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements. 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, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. The Village of Woodbury 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>.

## UNREGULATED CONTAMINANTS

The U.S. Environmental Protection Agency (EPA) has created the Unregulated Contaminants Rule (UCMR). The purpose of monitoring the unregulated contaminants in drinking water is to provide data to support the EPA Administrator's decisions concerning whether or not to regulate these contaminants in the future for the protection of public health. Under the Safe Drinking Water Act, a national representative randomly selected a sample of 800 community water systems (CWSs) and non-transient, non-community water systems (NTNCWSs) serving 10,000 or fewer persons that must monitor for unregulated chemical contaminants. All CWSs and NTNCWSs serving more than 10,000 people (i.e., large systems) are required to monitor for unregulated contaminants.

In 2020, the Woodbury Consolidated Water System tested for 20 unregulated contaminants. The contaminants include: Germanium, manganese, alpha-hexachlorocyclohexane, profenofos, chlorpyrifos, tebuconazole, dimethipin, total permethrin (cis- & trans-), ethoprop, tribufos, oxyfluorfen, 1-butanol, 2-propen-1-ol, 2-methoxyethanol, butylated hydroxyanisole, o-toluidine, quinoline, bromide, TOCs, HAA5, HAA6 and HAA9. Of these, test results showed the following contaminants at or above the minimum detection levels (MDL); Manganese, bromide, TOCs, HAA5, HAA6, & HAA9. Therefore, the other contaminants tested were non-detect. There were no violations of Health Department regulations in our water supply for any of the contaminants with regulated Maximum Contaminant Levels.

Contaminant	Level Detected (Range)	Unit Measurement	MDL	MCL	Likely Source of Contamination
Manganese	6.1 – 51.2	ug/l	0.4	300	Manganese is a mineral that naturally occurs in rocks and soil.
Bromide	53.5 – 88.9	ug/l	20	N/A	Bromide naturally occurs in the environment.
Total Organic Carbon	>1000 - 1100	ug/l	1000	N/A	TOC in source waters comes from decaying natural organic matter.
HAA5	1.75 – 6.40	ug/l	N/A	60	HAAs are a group of disinfection byproducts that form when chlorine compounds that are used to disinfect water react with other naturally occurring chemicals.
HAA6	2.79 – 10.37	ug/l	N/A	N/A	(see HAAs)
HAA9	3.34 – 17.36	ug/l	N/A	N/A	(see HAAs)

## **Is our water system meeting other rules that govern operations?**

During 2020, our water system received a violation for failure to update our Emergency Response Plan (ERP) and Vulnerability Assessment as required (must be updated every 5 years). Our water system is working with the Village's Engineers and the Orange County Department of Health to update this plan and close out this violation.

## **DO I NEED TO TAKE SPECIAL PRECAUTIONS?**

Although our drinking water met or exceeded state and federal regulations, 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?**

To meet present and future demands, there are a number of 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 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. So 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. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- ♦ 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 save more than 30,000 gallons a year.
- ♦ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it's moved, you have a leak.

## **SYSTEM IMPROVEMENTS**

In 2020, the Village began making improvements to Well House No. 1 including upgrades to mechanical and electrical equipment. The improvements increased the reliability of the water supply system.

The Village is continuously working to maintain and improve water supply in terms of quantity and quality. The Village is working to strengthen well supply by exploring well redevelopment techniques and expanding its well capacity. In 2020, the Village engaged a Groundwater Hydrogeologist and Well Driller to test for a new well on 17-acres of property acquired in 2019.

## **Water Supply Security**

Since the terrorist attacks on Sept. 11th, 2001 customers have expressed concerns with the security of their water supply. The Environmental Protection Agency and the FBI have stated it's highly improbable for the nation's drinking water to be compromised by terrorists. Nevertheless, we have implemented heightened security measures. While we cannot disclose specific details, we can assure you we have strengthened the security of our water supply programs and law enforcement coordination. In cooperation with the New York State Department of Health and the Federal EPA we completed an evaluation of our system and have regularly modified our emergency response plan to reflect our heightened security. The Village continues to review and consider cybersecurity measures to protect water supply.

As a first line of defense, we ask all of our customers to contact the Police Department at 845-928-2341 if you notice any suspicious activity in connection with any of the Village's water facilities (hydrants, reservoirs, wells, etc.)