

2019 Annual Water Quality Report
Windsor Farms Water District
40 Lakeview Drive P.O. Box 618
Shenorock, NY 10587
(Public Water Supply ID# 5930091)

To comply with State and Federal regulations, Windsor Farms Water District annually issues 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. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate 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 concerning your drinking water, please contact Adam Smith, Water Superintendent at (914) 248-5181. We want you to be informed about your drinking water. If you want to learn more, please attend any of the regularly scheduled Town of Somers Board Meetings. The meetings are held, on the second Thursday of the month, at 7:30pm at the Somers Town House Route 202 Somers, NY.

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 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.

Our water system serves approximately 120 people and has 34 service connections. In 2019, the water district purchased approximately 3.9 million gallons of water. Water customers were charged a minimum charge of \$52.50 per quarter and \$6.33 per 1,000 gallons. Our water source during 2019 were the Amawalk Reservoir, located in the Town of Somers the Catskill Aqueduct in the Town of Cortlandt. Water at The Catskill and Amawalk Water Treatment Plants are treated with the following processes prior to distribution: pH adjustment, coagulation, filtration, chlorine disinfection, and corrosion control.

The NYS DOH has evaluated the susceptibility of water supplies statewide to potential contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraph(s) below. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for this PWS. This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards. This PWS obtains water from the New York City water supply system. Water either come from the Catskill/Delaware watersheds east of the Hudson River and/or from the Croton watershed in Putnam and Westchester counties. The New York City Department of Environmental Protection (DEP) implements a series of programs to evaluate and protect source water quality within these watersheds. Their efforts focus on three important program areas: the enforcement of strengthened Watershed Rules and Regulations; the acquisition and protection of watershed lands; and implementation partnership programs that target specific sources of pollution in the watersheds.

Due to these intensive efforts, the SWAP methodologies applied to the rest of the state were not applied for this PWS. Additional information on the water quality and protection efforts in these New York City watersheds can be found at DEP's web site <http://www.nyc.gov/dep/watershed>

This PWS obtains water from the Catskill/Delaware watersheds east of the Hudson. The reservoirs in this mountainous rural area are relatively deep with little development along their shorelines. The main water quality concerns associated with land cover is agriculture, which can contribute microbial contaminants, pesticides, and algae producing nutrients. There are also some potential contamination concerns associated with residential lands and associated wastewater discharges. However, advanced treatments which reduce contaminants are in place for most of these discharges. There are also a number of other discrete facilities, such as landfills, chemical bulk storages, etc. that have the potential to impact local water quality, but large significant water quality problems associated with these facilities are unlikely due to the size of the watershed and surveillance and management practices.

Windsor Farms 2019 Annual Water Quality Report

Microbiological							
Distribution Turbidity ²	no	1/1 - 12/31/19	0.50 0.14 – 1.70	NTU	N/A	MCL 5 NTU	Soil runoff and reservoir disturbance
Filtration ³ Turbidity	no	1/1-12/31/2019	0.24 100%	NTU	N/A	TT=95% of samples<0.5 NTU	Soil runoff and reservoir disturbance
Radioactive ⁴							
Combined Radium 226 and Radium 228	no	9/9/15	.3525	pCi/L	0	MCL 5 pCi/L	Erosion of natural deposits.
Gross Alpha	no	9/9/15	0.187	pCi/L	0	MCL 15	Erosion of natural deposits.
Gross Beta ⁵	no	9/9/15	0.688	pCi/L	0	MCL 50 pCi/L	Erosion of natural deposits.
Total Uranium	no	9/9/15	0.023	µg/L	0	MCL 30 pCi/L	Erosion of natural deposits

- 1 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.
- 2 Turbidity is a measure of the cloudiness of the water. All values measured must be below 5 NTU.
- 3 Turbidity is a good indicator of the effectiveness of our filtration system. This value is the highest single combined filter measurement. At least 95% of the Samples collected must be less than or equal to 0.30 NTU.
- 4 This is a quarterly composite sampling from both the Amawalk Water Treatment Plant & Catskill Filtration Plant (sample frequency every 9 years).
- 5 This combined sample collected from the Amawalk Treatment Plant and Catskill Filtration Plant must be collected every 6 years. The State considers 50 pCi/L to be a level of concern for Beta particles.

(Table 2) Detected Lead & Copper

Parameter	Violation Yes/No	Date of Sample	Level Detected (Average & Range)	Unit Measurement	MCLG	Sites Tested	Sites Exceeding AL	Regulatory Limit (MCL, TT, or AL)	Likely Source
Copper ¹	no	09/09 – 9/12/18	80 ¹ 0 – 160	µg/L	1300	5	0	1300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Lead ²	no	09/09 – 9/12/18	0 ² 0 – 0	µg/L	0	5	0	15	Corrosion of household plumbing systems; Erosion of natural deposits.

- 1 This concentration presented represents the 90th percentile of the 5 sites tested for copper in 2018. 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. This value was 80 µg/L. The action level was not exceeded at any of the sites tested. We are required to test for lead and copper every three years.
- 2 The level presented represents the 90th percentile of the 5 sites tested for lead in 2018. For example, the 90th percentile is the average of the highest and second highest value. This value was 0.0 µg/L. The action level was not exceeded at any of the sites tested.

(Table 3) Detected Disinfection by Products

Parameter	Violation Yes/No	Date of Sample	Level Detected (Average & Range)	Unit Measurement	MCL G	Regulatory Limit (MCL, TT, or AL)	Likely Source
Haloacetic Acids ¹	no	8/8/2019	Location 1 28.55	µg/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.
Trihalomethanes ²	no	8/8/2019	Location 1 54.59	µg/L	N/A	80	By-product of drinking water disinfection needed to kill harmful organisms.
Haloacetic Acids ¹	no	8/8/2019	Location 2 23.93	µg/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.
Trihalomethanes ²	no	8/8/2019	Location 2 62.88	µg/L	N/A	80	By-product of drinking water disinfection needed to kill harmful organisms.

1 This level represents the locational running annual average and the range of the following contaminants: chloroform, bromodichloromethane, dibromochloromethane, bromoform.

2 This level represents the locational running annual average and the range of the following contaminants: monochloroacetic acid, monobromoacetic acid, dichloroacetic acid, trichloroacetic acid, dibromoacetic acid.

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. It should be noted that although the action level for lead was NOT exceeded we are required to present the following information on lead in drinking water:

Information on Lead:

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 Windsor Farms Water District 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 System Meeting Other Rules That Govern Operations?

During 2019, 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).

Information on Fluoride Addition.

Fluoride addition temporarily was ended at the Amawalk Treatment Facility on October 3, 2017 due to repairs/maintenance. You may want to discuss this with your family dentist to see if some other form of fluoride supplement should be considered for your dental protection.

Protecting Your Home Against Cross-Connections:

Under Part 5 Section 5-1.31 of the New York State Sanitary Code, the New York State Department of Health requires the Windsor Farms Water District to have a Cross Connection Control Program and to educate its customers in preventing cross connections in their homes.

Without proper protection devices, something as useful as your garden hose has the potential to poison your home's water supply. In fact, over half of the nation's cross-connections involve unprotected garden hoses.

What is a "cross-connection?"

A cross-connection is a permanent or temporary piping arrangement, which can allow your drinking water to be contaminated if a backflow condition occurs.

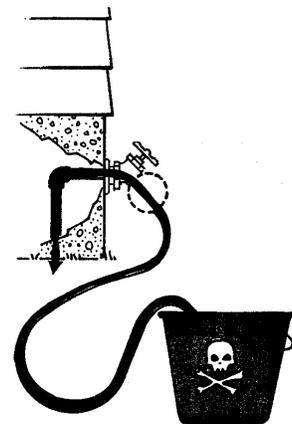
What is "backflow"?

It's just what it sounds like: the water is flowing in the opposite direction from its normal flow. With the direction of flow reversed, due to a change in pressures, backflow can allow contaminants to enter our drinking water system through cross-connections.

A potentially hazardous cross-connection occurs every time someone uses a garden hose sprayer to apply insecticides or herbicides to their lawn. Another cross-connection occurs when someone uses their garden hose to clear a stoppage in their sewer line.

Without a backflow prevention device between your hose and hose bibb (spigot or outside faucet), the contents of the hose and anything it is connected to can backflow into the piping system and contaminate your drinking water.

This hazardous situation sometimes can affect more than a single home. In 1977, an entire town in North Dakota had to be



rationed drinking water from National Guard water trucks while the town's water distribution system was flushed and disinfected following contamination by DDT. Investigation determined that two residents spraying DDT had made direct cross-connections to their homes. A backflow condition had occurred, sucking the DDT through the home piping systems and out into the town's water distribution system.

Backflows due to cross-connections are serious plumbing problems. They can cause sickness and even death. However, they can be avoided by the use of proper protection devices. Each spigot at your home should have a hose-bibb vacuum breaker installed. This is a simple, inexpensive device which can be purchased at any plumbing or hardware store. Installation is as easy as attaching your garden hose to a spigot.

Now you know how cross connections can occur and how to avoid and prevent them. If you know of a cross connection in your plumbing and need assistance in correcting the hazard, please contact this office immediately. For more information about cross connections, you may contact the Westchester County Department of Health, 145 Huguenot Street, New York 10801. (914) 813- 5000

Water Conservation: Although our system has an adequate amount of water 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 fire fighting needs are met.

How Can I Conserve My Water? 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. Repair 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.

In order to maintain a safe and dependable water supply we will be making necessary improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. 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. Please call our office if you have questions.

**PLEASE SHARE THIS REPORT WITH OTHERS!
TO OBTAIN ADDITIONAL COPIES, CALL THE SOMERS WATER DEPARTMENT AT
(914) 248-5181**