

North Castle Water District No.5

Annual Water Supply Report for 2024

Public Water Supply Id # 5903492

Introduction

To comply with State and Federal regulations, the Town of North Castle Water District No.5 is issuing an annual report describing the quality of your drinking water. The purpose of the 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 of where your water comes from, what it contains, and how it compares to State standards. Last year, we tested your tap water for 100's of contaminants and only found 2 of those contaminants at a higher level than the state allows. The information is provided in the tables that follow. As we told you at the time our water temporarily exceeded a drinking water standard and we are in the process of rectifying the situation. We have retained a consultant who has proposed a method of treatment and submitted a report to the County Health Department. Once conceptually approved, we will proceed with design and implementation. This report provides an overview of last year's water quality. Included are details of where your water comes from, what it contains, and how it compares to State standards.

Where does my water come from?

All water consumed in North Castle Water District No.4 was pumped from a combination of four (4) wells. Two are located within the Town Park on the former IBM property, there are two are located within the Whippoorwill Ridge subdivision no longer in use, and two are located on School Street. The water supply at each source is chlorinated, the supply at the School Street location is also filtered for iron removal and the town park wells receive treatment for manganese removal prior to system distribution. Water District No. 4 serves approximately 1225 people through 459 service connections. Also, Water District No. 4 sells water to North Castle Water District No. 5 which serves 350 people through 117 service connections.

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source 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 section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. 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 4 wells. The source water assessment has rated these wells as having a medium-high to high susceptibility to microbial contamination, a high susceptibility to nitrates, and a medium-high susceptibility to pesticides, industrial solvents, and other industrial contaminants. These ratings are due primarily to the close proximity of permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) to all of the wells. A hazardous waste site within the assessment area of all wells, and due to low intensity residential activities in the assessment areas, such as fertilizing lawns. Both IBM wells draw greater than 300 gallons per minute (gpm) from an unconfined aquifer. One School St. well (#1C) draws from an unconfined aquifer of unknown hydraulic conductivity and the other School St. well (#1A) draws greater than 100 gpm from an unconfined aquifer. 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 assessment, including a map of the assessment area, can be obtained by contacting us, as noted below.

EDUCATIONAL INFORMATION

The safe drinking water act requires that the following information be included in this notice.

Are there contaminants in my drinking water?

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. 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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Water Quality Data Table

North Castle Water District No.5 is required by the State Sanitary Code, Subpart 5-1, to monitor raw water and treated water quality by collecting and analyzing samples for various contaminants. Raw water samples are collected annually for organic and inorganic contaminants. Treated water is also sampled annually for inorganic contaminants.

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Table of Detected Contaminants							
Contaminant	Violation Yes\No	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source of Contamination
Total Coliform	No	1 sample 1-7 each month	0 Positive samples	N/A	0	TT= 2 or more Positive samples	Naturally present in the environment
Disinfection Byproducts							
Total Trihalomethanes ³ (TTHMs chloroform bromodichloromethane dibromodichloromethane & bromoform)	No	7/23/24	23.97 ⁵ (12.01-23.97)	µg/l	N/a	MCL=80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Haloacetic Acids ³ (mono-,di-,& trichloroacetic acid,& mono-&di-bromoacetic acid)	No	7/23/24	6.49 ⁵ (4.21-6.49)	µg/l	N/A	MCL = 60	By-product of drinking water chlorination needed to kill harmful organisms
Radiological Contaminants							
Gross alpha activity including radium – 226 but excluding radon and uranium)	No	8/6/24	0 - 0.32 ⁴	pCi/L	0	MCL=15	Erosion of natural deposits
Combined radium -226 and 228	No	8/6/24	0.1588- 0.773 ⁴	pCi/L	0	MCL=5	Erosion of natural deposits
Uranium	No	8/6/24	1.31 ⁴	µg/l	0	MCL=30	Erosion of natural deposits
Inorganic Contaminants							
Barium	No	8/5/24	0.244	Mg/l	2	MCL=2	Discharge of drilling wastes, discharge from metal refineries; erosion of natural deposits
Chloride	No	8/5/24	143	Mg/l	N/a	MCL=250	Naturally occurring or indicative of road salt contamination.
Nickel	No	8/5/24	2.0	µg/l	N/a	N/a	Discharge from metal refining and chemical production
Nitrate	No	8/5/24	0.435	Mg/l	10	MCL=10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Manganese	No	8/5/24	77.5	µg/l	N/a	MCL= 300Ug/l	Naturally occurring
Sulfate	No	8/5/24	26.0	Mg/l	N/a	MCL=250	Naturally occurring
Sodium	No	8/5/24	62.5	Mg/l	N/a	Water containing more than 20mg/l should not be used by people with severely restricted sodium diets. Water containing more than 270mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.	Naturally occurring; Road Salt; Water softeners; Animal waste
Zinc	No	8/5/24	6.1	µg/l	N/a	MCL=5	Naturally occurring; mining waste

Table of Detected Contaminants

Contaminant	Violation Yes\No	Date of Sample	Level Detected (Maximum Range)	Unit Measure - ment	MCL G	Regulator y Limit (MCL, TT, or AL)	Likely Source of Contamination
Perfluorooctanoic acid (PFOA)	Yes	Qrtly ⁷	Max (Range) Sch St W1 --13.8 (8.16 - 13.8) Sch St W2 – 11.1 (6.55-11.1) IBM W1—9.26 (4.26-9.26) IBM W2—6.47 (4.85-6.47)	ng/l	10	n/a	Released into the environment from widespread use in commercial and industrial applications
	Yes						
	No						
	No						
Perfluorooctane sulfonic acid (PFOS)		Qrtly ⁷	Max (Range) Sch St W1 – 10.4 (5.52-10.4) Sch St W2 – 9.15 (5.13-9.15) IBM W1 – 7.3 (3.09-7.3) IBM W2 – 3.88 (3.4-3.88)	ng/l	10	n/a	Released into the environment from widespread use in commercial and industrial applications
	Yes						
	No						
	No						
	No						

Unregulated Contaminants

Perfluorobutanoic Acid (PFBA)	No	Qrtly ⁷	5.17 (3.55-5.17)	ng/l	n/a	n/a	Released into the environment from widespread use in commercial and industrial applications
Perfluoropentanoic Acid (PFPeA)	No	Qrtly ⁷	6.52 (1.88-6.52)	ng/l	n/a	n/a	
Perfluorobutanesulfo nic Acid (PFBS)	No	Qrtly ⁷	4.44 (0.994 -4.44)	ng/l	n/a	n/a	
Perfluorohexanoic Acid (PFHxA)	No	Qrtly ⁷	6.49 (1.03-6.49)	ng/l	n/a	n/a	
Perfluoropentanesulf onic Acid (PFPeS)	No	Qrtly ⁷	0.891 (0.0872 -0.891)	ng/l	n/a	n/a	
Perfluoroheptanoic Acid (PFHpA)	No	Qrtly ⁷	4.41 (0.619-4.41)	ng/l	n/a	n/a	
Perfluorohexanesulfo nic Acid (PFHxS)	No	Qrtly ⁷	9.55 (1.17-9.55)	ng/l	n/a	n/a	
Perfluorononanoic Acid (PFNA)	No	Qrtly ⁷	3.77 (0.615-3.77)	ng/l	n/a	n/a	

LEAD & COPPER

Copper	No	6/1-9/30/23	0.632 ¹ (0.0407-0.861)	Mg/l	1.3	AL=1.3	Corrosion of Galvanized pipes; erosion of natural deposits
5 samples -0 above AL							
Lead	No	6/1-9/30/23	2.2 ² (<1-3.4)	µg/l	0	AL=15	Corrosion of household plumbing systems; Erosion of natural deposits
5 samples -0 above AL							

KEY: ppb: = parts per billion, or micrograms per liter (µg/l) NA: =Not applicable ND: =Not detected NR:= Not reported MNR:= Monitoring not required, but recommended. ppm: =parts per million, or milligrams per liter (mg/l) # of monthly positive samples: = Number of samples taken monthly that were found to be positive

MCLG: =Maximum Contaminant Level Goal: 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. **MRL:** =Method Reporting Level-Lowest level of a particular contaminant that the lab can report for a specific analysis.

MCL: = Maximum Contaminant Level: 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. **pCi/L;**=picocuries per liter --A measure of the radioactivity in water

MRDL =Maximum Residual Disinfectant Level: The highest level of a disinfectant 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: 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 contamination.

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

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.

2-The level presented represents the 90th percentile of the 5 sites tested. 3- Distribution system sample 4- Range for two (2) entry points collected * The State considers 50 pCi/L a level of concern for beta particles

5. – This level represents the range from data collected.

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 the level allowed by the State. As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead & copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds. Although the samples illustrated are only a few of the many constituents we have sampled for, some of which have had detects. The EPA has determined that your drinking water is safe at these levels.

HARD vs. SOFT WATER

The hardness of water relates to the amount of calcium, magnesium and sometimes iron in the water. The more minerals present, the harder the water. Soft water may contain sodium and other minerals or chemicals; however, it contains very little calcium, magnesium or iron. Many people prefer soft water because it makes soap lather better, gets clothes cleaner and leaves less of a ring around the tub. Some municipalities and individuals remove calcium and magnesium, both essential nutrients, and add sodium in an ion-exchange process to soften water, the harder the water, the more sodium that must be added in exchange for calcium and magnesium ions to soften the water. This process has drawbacks from a nutritional standpoint.

LEAD

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. North Castle WD5 is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact Water District No 5 at 914-273-3000 x55. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead> Sampling for lead was last performed during 2023. Due to previous sample results being below the action level, we are on a reduced monitoring program set by the state (every three years). We will sample again for lead during 2026.

INFORMATION ON LEAD SERVICE LINE INVENTORY

A Lead Service Line (LSL) is defined as any portion of pipe that is made of lead which connects the water main to the building inlet. An LSL may be owned by the water system, owned by the property owner, or both. The inventory includes both potable and non-potable SLs within a system. In accordance with the federal Lead and Copper Rule Revisions (LCRR) our system has prepared a lead service line inventory. We have completed the required LSLI and due to the population are not required to provide the inventory online. If you should have any questions about the inventory, please contact us directly

Is our water system meeting other rules that govern operations?

During 2024, Water District No.4 had MCL violations related to quarterly PFOA's samples collected from our supply wells (School St Well#1&2). PFOA caused a range of health effects when studied in animals at high exposure levels. The most consistent findings were effects on the liver and immune system and impaired fetal growth and development. Studies of high-level exposures to PFOA in people provide evidence that some of the health effects seen in animals may also occur in humans. The United States Environmental Protection Agency considers PFOA as having suggestive evidence for causing cancer based on studies of lifetime exposure to high levels of PFOA in animals.

What is being done?

Water District No.4 is working on resolving this issue, we have hired a consultant who has provided a method to remove PFOA from the system and has submitted the concept in a report to the health department. The design of the treatment system is underway and has been submitted to the Health Department for approval. We anticipate resolving the problem within the upcoming year. For more information, please contact North Castle Water Department at 273-3000 x55 or the Westchester County Department of Health (DOH) at 914-813-5000. Additional information is available on the Town Web Site.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants 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 about drinking water from their health care providers. EPA/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 Water Drinking Hotline (800-426-4791).

Fluoridation

The water supplied in Water District No.5 is not Fluoridated!

IMPORTANT WATER CONSERVATION NOTICE

The need to conserve water during times of drought is obvious to all. It is just as important to use water wisely when the supply is plentiful. However, with the ever-increasing installation of automatic irrigation systems, it is mandatory that we begin a water conservation program relative to irrigation. Most systems have automatic programmable timers, in addition to which we will require that rain sensors be installed, so as to avoid needless watering. The following irrigation practices will be enforced for all irrigation. Homes with even numbered addresses will water even numbered days, and homes with odd numbered addresses will water on odd numbered days. These restrictions shall apply all year, even during non-drought periods. Your cooperation in this matter will be appreciated!

You can play a role in conserving water by being conscious of the amount of water your household is using, and by looking for ways to use less whenever possible. 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.
- ◆ Closely monitor your automatic irrigation system, for leaks and overwatering
- ◆ 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.

For more information contact:

North Castle Water District No. 5

15 Business Park Drive

Armonk, New York 10504

watersewer@northcastleny.com

Attn: Sal Misiti

Director of Water & Sewer Operations

914-273-3000—ext.55

Fax: 914-273-3075

OR



Westchester County Department of Health

914-813-5000

www.northcastleny.com