

***Annual Drinking Water Quality Report for 2023***  
***D.C.W.W.A. Hyde Park System ( Including Zones A, B, C, and L )***  
***48 South Drive***  
***Hyde Park, NY 12538***  
***(Public Water Supply ID# 1302796)***

## **INTRODUCTION**

To comply with State regulations, DCWWA-Hyde Park System, 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. 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 the Hyde Park Water Plant at 845-229-2524 and ask for Alain Petit, Jr.. We want you to be informed about your drinking water. If you want to learn more about the Dutchess County Water and Wastewater Authority, please visit our website at [WWW.DCWWA.Org](http://WWW.DCWWA.Org). You can also reach us at (845)486-3601.

## **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 source is the Hudson River. The Hyde Park facility is a conventional filtration plant that consists of a raw water pumping station located, and the main treatment plant. The raw water station pumps water from the Hudson River to the treatment facility approximately one-half mile away. At the main treatment facility water received is treated by chemical coagulation, sedimentation, and filtration for the removal of particulate matter and large organisms. Disinfection with chlorine gas is provided to eliminate pathogens. Sodium Hypochlorite is added at the Raw intake for zebra mussel control. Copper Sulfate is added in the treatment process for taste and odor control. Tri-polyphosphate is added to the treated water for corrosion control in the distribution system. In the process of turning raw water in to a finished product, the water quality is consistently monitored every step of the way. Raw and finished water characteristics are checked daily for temperature, turbidity, total dissolved solids, and pH. Treatment is optimized based on these results, and other process control sampling results made

along the treatment path. Finished water is checked for chlorine residual and turbidity by continuous monitoring equipment, and verified by grab sampling. The finished water is then pumped out in to the distribution system for customer use. The distribution system is monitored for coliform bacteria, chlorine residual, turbidity, and other regulated parameters. Two elevated storage tanks located in the distribution system float on the system storing water for peak flow periods, and fire protection.

During 2023, our system did not experience any restriction of our water source. There were no spills on the Hudson River that placed the Hudson River as our source in jeopardy of meeting our demands. The local health department is in contact with plant operators whenever there is a spill event of any size or type in the Hudson River so that we are not caught by any surprise events that could jeopardize our water treatment.

## **FACTS AND FIGURES**

Our water system serves approximately 6,928 persons through 1,258 service connections. In addition, the Hyde Park System serves as the source of water for the Staatsburgh, Zone-D & L, and Pinebrook water systems. The total water produced in 2023 was 412,285,000 gallons. The daily average of water treated and pumped into the distribution system was 1,129,548 gallons per day. Our highest single day was 1,234,000 gallons in June of 2023. For information regarding the amount of water delivered to customers please call our billing department at 845-486-3601. In 2023, there were 3 water main breaks, and 13 service line leaks repaired by the Authority and/ or customers. In 2023, water customers were charged \$8.11 per 1,000 gallons of water with a monthly service charge of \$11.50 per month for a residential service connection.

## **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, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. If you wish to have a copy of all test results for all non-detected contaminants please contact the D.C.W.W.A., and we will be happy to provide them to you. Please note that water from the Hyde Park Plant is not fluoridated. 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 at 800-426-4791, or the Dutchess County Department of Behavioral and Community Health at 845-486-3404.

**A Summary of the Regulated Contaminants  
Detected in Our Treated Water**

<b>Microbiological Contaminants</b>							
<b>Contaminants</b>	<b>Violation Yes/No</b>	<b>Date Of Sample</b>	<b>Level Detected (Avg/Max) (Range)</b>	<b>Unit Measure-ment</b>	<b>MCLG</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
Turbidity ( 1 )	No	5/26/23, 5/27/23	( Max ) 0.25	NTU	N/A	0.30	<b>Soil Runoff</b>
Turbidity ( 2 )	No	Every 4 Hours	100% ≤ 0.3	NTU	N/A	TT = 95% of samples ≤ 0.3 NTU	
Distribution Turbidity ( 3 )	No	2/2023, 11/2023	( Max Avg. ) 0.14	NTU	N/A	MCL > 5 NTU	
Entry Point Total Organic Carbon	No	1/mo	( Avg. ) 3.6  ( Range ) 1.4 – 5.8	mg/L	N/A	TT	Naturally present in the environment

<b>Organic Contaminants</b>							
<b>Contaminants</b>	<b>Violation Yes/No</b>	<b>Date Of Sample</b>	<b>Level Detected (Avg/Max) (Range)</b>	<b>Unit Measure-ment</b>	<b>MCLG</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
2, 4-D	No	12/18/20	( Max ) 0.00015	mg/L	0.05	0.05	Runoff from herbicide used on row crops

## Inorganic Contaminants

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TTR or AL)	Likely Source of Contamination
Antimony	No	6/22/21	( Max ) 0.001	mg/L	0.006	0.006	Naturally occurring; By-product of some manufacturing processes
Barium	No	6/20/23	( Max ) 0.017	mg/L	2	2	Erosion of natural deposits; Discharge of drilling wastes; Discharge of metal refineries
Chloride	No	10/21/20	( Max ) 49.9	mg/L	N/A	250	Naturally occurring or indicative of road salt contamination
Chromium	No	6/22/21	( Max ) 0.007	mg/L	0.10	0.10	Main additive in stainless steel products
Copper ( 4 )	No	7/01/23 - 9/29/23	0.991 ( Range ) 0.042 - 1.086	mg/L	N/A	AL = 1.3	Erosion of natural deposits; Corrosion of household plumbing systems; Leaching from wood preservatives
Fluoride	No	6/20/23	( Max ) 0.27	mg/L	N/A	2.2	Erosion of natural deposits; Water additive promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead ( 5 )	No	7/01/23 - 9/29/23	0.8 ( Range ) ND - 2	ug/L	0	AL = 15	Erosion of natural deposits; Corrosion of household plumbing systems
Nickel	No	6/20/23	( Max ) 0.95	ug/L	N/A	100	Naturally occurring; By-product of some manufacturing processes
Nitrate	No	4/11/23	( Max ) 0.48	mg/L	10	10	Erosion of natural deposits; Run off from fertilizer use; Leaching from septic tanks; Sewage
Sodium ( 6 )	No	10/21/20	( Max ) 28	mg/L	N/A	*No MCL. See foot note 6 for health effects	Naturally occurring; road salt; Water softeners; Animal waste

## Synthetic Organic Contaminants

Contaminants	Violation Yes/No	Date of Sample	Level Detected (Avg./Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Perfluorooctanoic Acid ( PFOA )	No	Qtrly	( Avg. ) 2 ( Range ) 1.36 – 2.86	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications
Perfluorooctane Sulfonic Acid ( PFOS )	No	Qtrly	( Avg. ) 1 ( Range ) 1.16 - 1.41	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications
Perfluoro-butanesulfonic Acid ( PFBS )	No	Qtrly	( Avg. ) 1 ( Range ) ND - 1.90	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid ( PFHxA )	No	Qtrly	( Avg. ) 1 ( Range ) ND – 1.41	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluoroheptanoic Acid ( PFHpA )	No	Qtrly	( Avg. ) 0.383 ( Range ) ND –0.786	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluoro-hexanesulfonic ( PFHxS )	No	Qtrly	( Avg. ) 0 ( Range ) ND	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
NEtFOSAA	No	Qtrly	( Avg. ) 0.195 ( Range ) ND - 0.781	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
1,4 - Dioxane	No	Qtrly	( Avg. ) 0 ( Range ) ND	ug/L	N/A	1	Released in to the environment from widespread use in commercial and industrial applications

<b>Radioactive Contaminants</b>							
<b>Contaminants</b>	<b>Violation Yes/No</b>	<b>Date of Sample</b>	<b>Level Detected (Avg./Max) (Range)</b>	<b>Unit Measurement</b>	<b>MCLG</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
Gross Alpha	No	12/19/23	( Max ) 0.514	pCi/L	0	15	Erosion of natural deposits
Gross Beta ( 7 )	No	12/19/23	( Max ) 1.18	pCi/L	0	50	Decay of natural deposits and man-made emissions
Combined 226 and 228 Radium	No	12/19/23	( Max ) 0.598	pCi/L	0	5	Erosion of natural deposits
Uranium	No	12/19/23	Max ) 0.031	ug/L	0	30	Erosion of natural deposits

<b>Disinfection Byproducts</b>							
<b>Contaminants</b>	<b>Violation Yes/No</b>	<b>Date Of Sample</b>	<b>Level Detected (Avg/Max) (Range)</b>	<b>Unit Measurement</b>	<b>MCLG</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
Haloacetic Acids ( HAA5 ) ( 8 )	No	Qtrly	( Avg. ) 42 ( Range ) 23.5 – 60.1	ug/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms
Total Trihalomethanes ( TTHMs ) ( 8 )	No	Qtrly	( Avg. ) 43 ( Range ) 14.0 – 64.0	ug/L	N/A	80	By-product of drinking water disinfection needed to kill harmful organisms TTHMs are formed when source water contains large amounts of organic matter

<b>Disinfection</b>							
<b>Contaminant</b>	<b>Violation Yes/No</b>	<b>Date of Sample</b>	<b>Level Detected (Avg/Max) (Range)</b>	<b>Unit Measurement</b>	<b>MCLG MRDLG</b>	<b>Regulatory Limit MCL,TT,AL MRDL</b>	<b>Likely Source of Contamination</b>
Entry Point Chlorine Residual ( 9 ) & ( 10 )	No	Cont.	( Avg. ) 1.16 ( Range ) 0.87 – 1.44	mg/L	N/A	4.0	Water additive used to control microbes

1 – 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. Our highest single combined filter effluent turbidity measurement of the year occurred on 5/26/23 and 5/27/23, and was 0.25 NTU.

2--State regulations require that turbidity must always be below 1 NTU. The regulations require that 95% of the turbidity samples collected have measurements below 0.3 NTU. 100% of our measurements for the year were below this level. We monitor continually, and record the readings every 4 hours.

3 -- 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 monthly distribution turbidity average during the year was 0.14 NTU, and occurred in February and November 2023. This value is below the State's maximum contaminant level, 5 NTU.

4 – The level presented represents the 90th percentile of the 20 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, 20 samples were collected at 20 different sites from your water system. The 90<sup>th</sup> percentile value was 0.991 mg/L, which is below the Action Level of 1.3 mg/L.

5 – The level presented represents the 90th percentile of the 20 sites that were tested. A percentile is a value on a scale of 100 that indicates the percent distribution that is equal to, or below it. The 90<sup>th</sup> percentile is equal to, or greater than, 90% of the lead values detected at your water system. In this case, 20 samples were collected from 20 different sites at your water system. The 90<sup>th</sup> percentile was 0.8 ug/L, which is below the Action Level of 15 ug/L.

6—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.

7 – The State considers 50 pCi/L to be the level of concern for Beta particles.

8 – This level represents the highest running annual average, and range, calculated from data collected.

9 – The value reported represents the Maximum Residual Disinfectant Level ( MRDL ), which is a level of disinfectant added for water treatment that may not be exceeded at the consumers tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated, but in the future they will be enforceable in the same manner as MCLs.

10 – Chlorine residuals are monitored continuously on water treatment plant effluent.

## **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 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.

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

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

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

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

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

**Micrograms per liter (ug/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 in one trillion parts of liquid (parts per trillion – ppt).

## **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.

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 D.C.W.W.A. 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 2023, our system was in compliance with applicable State drinking water operating, monitoring, and reporting requirements.

## **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?**

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 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 moved, you have a leak.

## **SYSTEM IMPROVEMENTS**

A preliminary capital plan for the replacement, and rehabilitation, of some of the aging water main in the system was begun in 2011, and continued to be updated in 2023. Our capital plan has also been updated to include various projects to replace aging equipment at the water treatment plant on South Drive.

## **CLOSING**

In closing, the Board members and staff of the Dutchess County Water & Wastewater Authority wish to 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, which are the heart of our community, and our way of life. Please call our office if you have questions.