

WESTCHESTER JOINT WATER WORKS WATER QUALITY REPORT FOR 2019 Public Water Supply #5903435

INTRODUCTION

To comply with State regulations and to keep its customers informed, the WESTCHESTER JOINT WATER WORKS (WJWW) issues an annual report describing the quality of your drinking water. The purpose of this report is to both raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, we conducted tests for numerous contaminants (See "Analytical Testing Results – 2019" table). Of the contaminants tested, only two (2) tested at a level higher than the State allows - total coliform and Haloacetic Acids (HAA5).

The total coliform exceedance did not require public notification, but a level one assessment was performed and submitted to the Westchester County Department of Health (WCDOH). With respect to the HAA5 exceedances in 2019, three Maximum Contaminant Level (MCL) violations were issued by WCDOH. Notices of these violations were mailed to all customers on March 15, May 24, and September 3, 2019. Additionally, on March 28, 2019, WJWW was issued an Administrative Order (AO) by the USEPA requiring a Corrective Action Plan (CAP) to address the violations. On July 11, 2019, the USEPA issued a second AO requiring WJWW to submit plans within 30 days to address the long-standing violation of the Surface Water Treatment Rule (SWTR) drinking water filtration requirement which compliance would give better ability to meet the HAA5 MCL. On November 26, 2019, the USEPA issued a third AO requiring WJWW to submit an updated CAP detailing interim and long-term measures to mitigate these violations. Such long-term measures include commencing the design of the proposed Rye Lake Filtration Facility and to begin the State Environmental Quality Review (SEQR) process by January 31, 2020, with the filtration facility operational by October 15, 2024. Beginning in late 2019, WJWW implemented interim measures which included a water main flushing program.

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, contact Paul Kutzy, P.E. Manager at 914-698-3500 ext. 612. We want you to be informed about your drinking water. If you want to learn more, you may attend any of our regularly scheduled meetings of our Board of Trustees. The Board of Trustees of the WJWW generally meets at 3:30 p.m. every second and fourth Tuesday of the month at 1625 Mamaroneck Avenue, Mamaroneck, New York. The public is welcome to attend these meetings.

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 it can also pick up substances resulting from the presence of animals or from human activities. As a result, 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. State Health Department and FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water supply is obtained from the upstate Catskill and Delaware watersheds of the New York City water system. We have two connections to the City system from which we take our water. One connection is at Shaft 22 of the Delaware Aqueduct in Yonkers and the other is at Rye Lake, the eastern portion of Kensico Reservoir, in Harrison. The water from Shaft 22 is a blend of water from the upstate Catskill and Delaware watersheds, while the water from Rye Lake is, under most circumstances, entirely from the Delaware watershed. During 2019, our system did not experience any water source restrictions.

WATER TREATMENT

Water taken by WJWW from Shaft 22 is fluoridated and chlorinated by NYCDEP at Kensico Reservoir. Beginning in late 2012, NYCDEP also began UV treatment at its Eastview facility. Subsequently, at its Larchmont Station, WJWW provides additional chlorination, adds caustic soda for pH control, and a blended poly-orthophosphate as a corrosion inhibitor.

Water taken by WJWW from the Kensico Reservoir at its Rye Lake Station is fluoridated, chlorinated and provided with a blended poly-orthophosphate at the Rye Lake Treatment Plant. After the water passes through WJWW's Purchase Tanks, caustic soda is added for pH control.

SOURCE WATER ASSESSMENT PROGRAM

The NYSDOH 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 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 occurred or will occur in the WJWW system. The WJWW provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards. Although surface waters in general are highly sensitive to microbial contaminants, NYSDOH's assessment found no noteworthy risks to water quality.

NEW YORK CITY WATERSHED PROTECTION

The WJWW obtains its water from the Catskill/Delaware watersheds west of the Hudson River located in upstate New York. The reservoirs in this mountainous rural area are relatively deep with little development along their shorelines. The main water quality concern 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.

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

The WJWW obtains its water from the New York City water supply system. The New York City Department of Environmental Protection (NYCDEP) has oversight of a series of programs to evaluate and protect source water quality within these watersheds. The three main areas of focus of these programs are: the enforcement of strengthened Watershed Rules and Regulations; the acquisition and protection of watershed lands; and the implementation of partnership programs that target specific sources of pollution in the watersheds. These efforts by the City are reviewed and tracked by Federal and State regulatory agencies and have resulted in a New 10-Year Filtration Avoidance Determination (FAD) being issued in 2017 by the New York State Department of Environmental Protection and New York State Department of Health. This FAD is effective until 2027.

FACTS AND FIGURES

The WJWW is a non-profit public benefit corporation consisting of the member municipalities of the Village of Mamaroneck, Town of Mamaroneck and the Town/Village of Harrison. The WJWW supplies water on a retail basis to its member municipalities and to portions of the City of Rye and the City of New Rochelle. It also sells water on a wholesale basis to the Village of Larchmont and Suez Water Westchester.

The WJWW serves a retail population of 59,629 persons through 14,842 service connections. In 2019, the WJWW purchased 3.98 billion gallons of water and sold 3.48 billion gallons of it to consumers. The difference of approximately 502 million gallons or 12.6% of total water purchased from NYC is classified as unbilled water (formerly referred to as unaccounted water). Unbilled-water consists of water lost due to leaks and main breaks, under-registration of meters, use at fires and hydrant flushing. The daily average water treated and pumped into the distribution system was 10.9 million gallons per day. The highest single day was 18.1 million gallons.

The WJWW does not have any rate-making power. Each of its member municipalities establishes its own rate schedule. Therefore, the cost of water varies by community. Assuming the average annual usage is 100,000 gallons, the equivalent of 134 hundred cubic feet, the annual cost based on rates in effect as of July 2019 for a typical customer having a 5/8" meter, consuming water evenly over the year, would be:

Village of Mamaroneck	\$ 795.78
Town of Mamaroneck	\$ 886.30
Town of Harrison	\$ 766.74
City of Rye	\$1,095.78*
City of New Rochelle	\$1,147.78*

^{*}The cost of water in the outside districts of the City of Rye (Subject to Village of Mamaroneck water rates) and the City of New Rochelle (Subject to Town of Mamaroneck water rates) are higher than those of their associated member municipalities, since these cities tax the water mains of the WJWW, whereas the WJWW water mains within its member municipalities are tax exempt. Additionally, as upgrades of local infrastructure in these non-member districts are not directly financed by them, costs associated with financing these upgrades are also recovered through their water rates.

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. Please refer to the "Analytical Testing Results - 2019" table for a depiction of compounds which 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 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 EPA's Safe Drinking Water Hotline (800) 426-4791 or the Westchester County Health Department at (914) 813-5000.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the "Analytical Testing Results – 2019" table, only two (2) contaminants tested at a level higher than the State allows - Total Coliform and Haloacetic Acids (HAA5).

With respect to the total coliform exceedance, we found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments. The total coliform exceedance did not require public notification, but a level one assessment was performed and submitted to the Westchester County Department of Health (WCDOH). This level one assessment indicated that coliform exceedances occurred at two sampling sites and when the samples from these sites were aspeciated out they were found to be biofilms, which are believed to have formed as a result of warmer water temperatures. As a corrective measure, WJWW has instituted monthly flushing of water mains in areas where the exceedances occurred to prevent formation of biofilms.

Regarding the haloacetic acid exceedance - haloacetic acids are disinfection byproducts formed during treatment of drinking water by chlorine, the most commonly used disinfectant in New York State. Drinking water is disinfected by public water suppliers to kill bacteria and viruses that could cause serious illnesses. For this reason, disinfection of drinking water by chlorination is beneficial to public health. The amount of haloacetic acids in drinking water can change from day to day, depending on the temperature, the amount of organic material in the source water, the amount of chlorine added, and a variety of other factors.

The presence of haloacetic acids at the concentrations detected in the water system does not constitute an immediate health hazard. Although the standard is slightly exceeded, it is not a "bright line" between drinking water concentrations that cause health effects and those that do not. The standard for haloacetic acids is set at a water concentration at which exposure is much lower than exposures identified as causing health effects in animals. Thus, exceedance of the standard is not a trigger for health effects, but a trigger for water suppliers to take action to reduce the haloacetic acid concentrations and maintain what is already a large margin of protection against health effects. The risks for adverse health effects from the haloacetic acids in the drinking water are small compared to the risk for illness from drinking inadequately disinfected water.

With respect to the HAA5 exceedances in 2019, three Maximum Contaminant Level (MCL) violations were issued by WCDOH. Notices of these violations were mailed to all customers on March 15, May 24, and September 3, 2019. Additionally, on March 28, 2019, WJWW was issued an Administrative Order (AO) by the USEPA requiring a Corrective Action Plan (CAP) to address the violations. On July 11, 2019, the USEPA issued a second AO requiring WJWW to submit plans within 30 days to address the long-standing violation of the Surface Water Treatment Rule (SWTR) drinking water filtration requirement which compliance would give better ability to meet the HAA5 MCL. On November 26, 2019, the USEPA issued a third AO requiring WJWW to submit an updated CAP detailing interim and long-term measures to mitigate these violations. Such long-term measures include commencing the design of the proposed Rye Lake Filtration Facility and to begin the State Environmental Quality Review (SEQR) process by January 31, 2020, with the filtration facility operational by October 15, 2024.

WJWW engaged a consultant to study and review system operations to determine if system infrastructure modification or new treatment measures can be deployed to reduce the levels of disinfection byproducts in our water system. This study has been completed and Westchester Joint Water Works has implemented ways to reduce the HAA5 levels in the system. We have minimized the overall chlorine dosage in the system which assists in preventing formation of disinfection byproducts. We have also implemented a more rigorous hydrant flushing program as well as dropped the elevation of our water storage tanks to reduce the age of water. Thus, shrinking the time period when these by-products can be created.

We also learned through our testing that some other contaminants have been detected; however, these contaminants were detected below the level allowed by the State. 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 WJWW 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 (800) 426-4791 or at http://www.epa.gov/safewater/lead.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATION?

Variances, Exemptions, Administrative or Judicial Orders under the federal Surface Water Treatment Rule, provide that surface supplies, such as that used by the City of New York, require filtration unless certain rigid requirements can be met. New York City's filtration avoidance for its Catskill-Delaware supply was renewed for a 10-year period in December 2017 (for further information visit http://www.nyc.gov/html/dep/html/watershed_protection/fad.shtml). This filtration avoidance declaration will remain in effect until July 2027 and applies to the WJWW Shaft 22 connection.

WJWW is currently in violation of the USEPA Surface Water Treatment Rule (SWTR) drinking water filtration requirement, as it applies to the WJWW Rye Lake connection. Therefore, we are required to include the following statement in this report: "Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches." WJWW is under a NYS Court Order (Index No. 133-64-99, Supreme Court, Westchester County) to construct a filtration facility. Design is currently underway to construct the proposed Rye Lake Filtration Facility and is expected to be operational by October 2024.

INFORMATION ON CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water and groundwater under the influence of surface water. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100% removal. During 2019, as part of their routine sampling The City of New York Department of Environmental Protection – Bureau of Water Supply collected a total of fifty-two (52) routine samples from the Kensico Reservoir effluents and tested them for Cryptosporidium oocysts. Of the fifty-two (52) routine samples, three (3) samples were positive for Cryptosporidium. When detected, current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, a gastrointestinal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their health care provider regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

INFORMATION ON GIARDIA

Giardia is a microbial pathogen present in varying concentrations in many surface waters and groundwater under the influence of surface water. Giardia is removed/inactivated through a combination of filtration and disinfection or by disinfection alone. During 2019, as part of their routine sampling, The City of New York Department of Environmental Protection – Bureau of Water Supply collected a total of fifty-two (52) routine samples from the Kensico Reservoir effluents and tested them for Giardia cysts. Of the fifty-two (52) routine samples, thirty-seven (37) were positive for Giardia. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Giardia may cause giardiasis, an intestinal illness. People exposed to Giardia may experience mild or severe diarrhea, or in some instances no symptoms at all. Fever is rarely present. Occasionally, some individuals will have chronic diarrhea over several weeks or a month with significant weight loss. Giardiasis can be treated with anti-parasitic medication. Individuals with weakened immune systems should consult with their health care providers about what steps would best reduce their risks of becoming infected with Giardiasis. Individuals who think that they may have been exposed to Giardiasis should contact their health care providers immediately. The Giardia parasite is passed in the feces of an infected person or animal and may contaminate water or food. Person to person transmission may also occur in day care centers or other settings where hand washing practices are poor.

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, as well as the elderly and infants are at greater risk for 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.

UNREGRULATED CONTAMINANT MONITORING RULE (UCMR)

Under the 1996 amendments to the federal Safe Drinking Water Act and the Fourth Unregulated Contaminant Monitoring Rule (UCMR4), EPA is required once every five years to issue a new list of up to 30 unregulated contaminants which public water systems must monitor. The intent of the rule is to provide baseline occurrence data that EPA can combine with toxicological research to make decisions about potential future drinking water regulations. Westchester Joint Water Works is currently participating in the fourth round of this contaminant testing. The data from this sampling can be found in the tables of this report. Please see the "Analytical Testing Results – 2019" table for a list of the unregulated contaminants. For more information on the rule or any questions, please call Frank Arcara, Chief Water Treatment Plant Operator at 914-698-3500 ext. 616.

INFORMATION ON FLUORIDE ADDITION

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal level of 0.7 mg/l (parts per million). To ensure that the fluoride supplement in your water provides optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis. Fluoride is added to your water by the NYCDEP for the Shaft 22 Delaware Aqueduct connections and by WJWW for the Rye Lake intake.

During 2019 at Shaft 22, other than brief outages to perform preventative and corrective maintenance, NYCDEP provided continuous fluoride treatment on the Catskill/Delaware supply. WJWW provided continuous fluoride treatment for its Rye lake supply throughout 2019. WJWW had a system-wide annual average fluoride level of 0.70 mg/l, equal to the target level. The New York State Dental Health Association has indicated that an intermittent interruption of fluoridation is not expected to have a significant impact on dental health. During 2019, none of the monitoring results showed fluoride levels that approach the 2.2 mg/l MCL

INFORMATION FOR NON-ENGLISH-SPEAKING RESIDENTS:

Este informe contiene informacion muy importante sobre su agua beber. Traduzcalo o hable con alguien que lo entienda bien.

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 conserves a precious resource;
- 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 that would otherwise be necessary to provide for essential firefighting capability.

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 water whenever possible. 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 a year.
- Check your toilets for leaks by putting a few drops of food coloring in the tank and watching 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 and then check the meter after 15 minutes. If the numbers on the meter register move, you have a leak.

Other conservation measures you can take include:

- Use low flow shower heads save 2 gallons per minute or more
- Don't flush toilets unnecessarily use a wastebasket for tissues, etc.
- Use a toilet dam or install a low flush model toilet
- Water your lawn late at night to avoid evaporation loss
- Don't cut the lawn too short longer grass saves water
- Mulch your trees and plants to retain moisture

SYSTEM IMPROVEMENTS

In 2019, WJWW made a number of improvements within its system to provide more reliable and efficient water service to its customers. Among these improvements were: i) Additional upgrades of its computer based SCADA (Supervisory Control and Data Acquisition) system to expand the ability to monitor and control water treatment plants and the distribution system; ii) Repair and reconstruction of transmission lines and valves to improve water flow and pressure throughout the system; iii) Projects to reduce vulnerability and increase resiliency of facilities, such as the new 2 MG Kenilworth water storage tank which was put in service late in the year augmenting the recently upgraded Kenilworth booster station; iv) Continuation of lead service connection replacements; v) Continuation of transite water main replacements.

Going forward, the WJWW's five-year capital improvement plan has as its main focus a project to construct a filtration facility for the Rye Lake source (expected completion late 2024). The purpose and need of this water filtration facility is to improve drinking water quality to WJWW customers, and to comply with New York State Court Order (Index No. 133-64-99, Supreme Court, Westchester County) and United States Environmental Protection Agency (USEPA) Administrative Order (AO SDWA02-2020-8001). Also included in the plan is the construction of a UV facility for the Rye Lake source (expected completion mid 2021).

ADDITIONAL INFORMATION

In 2019, all of WJWW's source water came from the New York City water system. The City conducted numerous tests on the water prior to it reaching our Shaft 22 connection and WJWW Rye Lake intake in the Kensico reservoir. New York City's Annual Water Quality Report can be viewed on: http://www.nyc.gov/html/dep/html/drinking water/wsstate.shtml.

CLOSING:

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all of our customers help us protect our water sources, which are a critical resource for our community. Please visit our website at www.wjww.com or call our office at 914-698-3500 if you have questions.

Westchester Joint Water Works ANALYTICAL TESTING RESULTS 2019

Definitions:

Action Level (AL): Maximum Contaminant Level (MCL): Maximum Contaminant Level Goal (MCLG): Maximum Residual Disinfectant Level (MRDL):

Maximum Residual Disinfectant Level Goal (MRDLG):

Milligrams per liter (mg/l): Non Detect (ND): No Determined Limit (NDL): Nephelometric Turbidity Unit (NTU): Micrograms per liter (ug/l):
Picocuries per liter (pc//L):
Locational Running Annual Average (LRAA):
Treatment Technique: (TT):
UCMR3 and UCMR4:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible. 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. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of miscobile contaminants.

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

Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

The contaminant was not detected in the water by laboratory analysis

No level has been established for drinking water.

A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

A measure of the radioactivity in water.

The average value of multiple samples taken over the latest twelve month period at a particular location.

A required process intended to reduce the level of a contaminant in drinking water.

Unregulated Contaminant Monitoring Rule Three and Four

Contaminant	Violation Yes/No	Date of Sample	Level Detected Max (Range)	Unit Measurement	MCLG	Regulatory Limit MCL, TT, AL, Highest Level Allowed	Likely Source of Contamination		
Regulated Inorganic Contaminants									
Barium	No	10/21/2019	0.017 (0.012-0.017)	mg/l	2	2	Erosion of natural deposits.		
Chloride	No	10/21/2019	12.9 (11.2-12.9)	mg/l	-	250	Naturally occurring; road salt		
Fluoride	No	2019	0.74 (0.65-0.74)	mg/l	-	2.2	Erosion of natural deposits; Water additive which promotes strong teeth.		
Cyanide	No	10/21/2019	0.0015 (0.0010-0.0015) (e)	mg/l	-	0.2	Discharge from industrial chemical factories.		
Manganese	No	10/21/2019	30.3 (26.0-30.3) (a)	ug/l	-	300	Naturally occurring		
Nickel	No	10/21/2019	0.57 (0.39-0.57)	ug/l		100	Discharge from industrial chemical factories and or Runoff from fertilizer use		
Nitrate	No	10/21/2019	0.125 (0.073-0.125)	mg/l	10	10	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits		
Sodium	No	10/21/2019	9.87 (8.96-9.87) (b)	mg/l		NDL	Naturally occurring; road salt		
Sulfate	No	10/21/2019	3.61 (3.45-3.61)	mg/l	250	250	Erosion of natural deposits		
Turbidity - Entry Point (Purchase Booster Station)	No	2019	1.27 (0.55 - 1.27) (c)	NTU	N/A	5	Soil runoff		
Zinc	No	10/21/2019	0.0044 (0.0023-0.0044)	mg/l	-	5	Naturally occurring		
Microbiological Contaminant		0.140	7.7.4-1/440/	1		50/ 1			
Total Coliform - Distribution Radiological Compliance	YES	Oct-19	7 Total / 11%	samples	0	5% in one month	Naturally present in the environment		
Gross Alpha	No	10/24/2018	0.288 +/- 0.29 (d)	pCi/L		<15	Erosion of natural deposits		
Gross Beta	No	10/24/2018	0.635 +/- 0.459 (d)	pCi/L	-	<5	Erosion of natural deposits		
Radium 226	No	10/24/2018	0.269 +/- 0.349 (d)	pCi/L	-	<5	Erosion of natural deposits		
Radium 228	No	10/24/2018	0.356 +/- 0.286 (d)	pCi/L	-	<5	Erosion of natural deposits		
UCMR3 Detects(f)				1					
Chromium	No	7/10/2014	0.310	ug/l	-	NDL	Erosion of natural deposits		
Strontium	No	7/10/2014	19.700	ug/i	-	NDL	Naturally occurring mineral		
UCMR4 Detects(f)				1 -3.					
Total Organic Carbon	No	2018 & 2019	(1570-2490)	ug/l			·		
Manganese	No	2019 & 2019	(8.3-126)	ug/l		300			
Haloacetic Acid 5 (HAA5):	Violation Yes/No	Date of Sample	Level Detected Max (Range)	Unit Measurement	MCLG	Regulatory Limit MCL, TT, AL, Highest Level Allowed	Likely Source of Contamination		
						60	Disposal set of deleting system obligation		
Site 1	No	2018 & 2019	(33.7-89.2)	ug/l	0	60	Byproduct of drinking water chlorination		
Site 1 Site 2	No No	2018 & 2019 2018 & 2019	(33.7-89.2) (39.1-103.9)	ug/l ug/l	0	60	Byproduct of drinking water chlorination Byproduct of drinking water chlorination		
Site 2	No	2018 & 2019	(39.1-103.9)	ug/l	0	60	Byproduct of drinking water chlorination		
Site 2 Site 3 Site 4	No No No	2018 & 2019 2018 & 2019 2018 & 2019	(39.1-103.9) (50.1-77.7) (20.5-91.7)	ug/l ug/l ug/l	0	60 60 60	Byproduct of drinking water chlorination Byproduct of drinking water chlorination Byproduct of drinking water chlorination		
Site 2 Site 3 Site 4 Site 5	No No No No	2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019	(39.1-103.9) (50.1-77.7) (20.5-91.7) (49.1-87.7)	ug/l ug/l ug/l ug/l	0 0 0	60 60 60	Byproduct of drinking water chlorination		
Site 2 Site 3 Site 4 Site 5 Site 6	No No No No	2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019	(39.1-103.9) (50.1-77.7) (20.5-91.7) (49.1-87.7) (26.4-52.3)	ug/l ug/l ug/l ug/l	0 0 0 0	60 60 60 60	Byproduct of drinking water chlorination		
Site 2 Site 3 Site 4 Site 5	No No No No	2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019	(39.1-103.9) (50.1-77.7) (20.5-91.7) (49.1-87.7) (26.4-52.3) (23.1-35.7)	ug/l ug/l ug/l ug/l ug/l ug/l	0 0 0	60 60 60	Byproduct of drinking water chlorination		
Site 2 Site 3 Site 4 Site 5 Site 6 Site 7	No No No No No	2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019 2018 & 2019	(39.1-103.9) (50.1-77.7) (20.5-91.7) (49.1-87.7) (26.4-52.3)	ug/l ug/l ug/l ug/l	0 0 0 0 0	60 60 60 60 60	Byproduct of drinking water chlorination		
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Undetected Conventional Physical And Chemical Parameters

Antimony, Arsenic, Beryllium, Bromate, Cadmium, Chlorite, Chromium, Ethylene glycol, Iron, Mercury, Selenium, Silver, Thallium, Nitrite, Propylene glycol, Lead and Color

Undetected Organic (Principal, Specified and Unspecified) Contaminants

Carbamate pesticides (EPA method 531.1), Pesticides (EPA method 508), Endothall, Glyphosate, MTBE, Nitrobenzene, Herbicides (EPA method 515.1), Microextractables (EPA method 504.1) Volatile organic compounds (EPA method 524.2), Organic chemicals (EPA method 525.2).

(a) If iron and manganese are present, the total concentration of both should not exceed 500 ug/l

(b) Water with > 20 mg/l of sodium should not be consumed by those on a severely restricted sodium diet. Water with > 270 mg/l of sodium should not be consumed by people on a

(c) Turbidity is a measure of cloudiness of the water. We test it because it is a good indicator of water quality. The highest monthly average turbidity measurement for the year (1.06 NTU) occurred inDecember

2019. High turbidity can hinder the effectiveness of disinfectants. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. MCL is the average of two consecutive days.

(d) This level represents the highest locational running annual average calculated from the data collect (e) Detected but below the MCL. f) For further information related to the UCMR3 and UCMR4 results please contact Frank Arcara Chief Water Treatment Plant Operator at 914-698-3500.

Contaminants Monitored Under Interim Enhanced Surface Water Treatment Rule (Stage 2 Disinfection Byproducts)								
Total Trihalomethanes:	Violation Yes/No	Date of Sample	Level Detected Max (Range)	Unit Measurement	MCLG	Regulatory Limit MCL, TT, AL, Highest Level Allowed	Likely Source of Contamination	
Site 1	No	2019	52 (d) (38-52)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 2	No	2019	29 (d) (22-29)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 3	No	2019	35 (d) (31-35)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 4	No	2019	56 (d) (43-56)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 5	No	2019	60 (d) (21-60)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 6	No	2019	18 (d) (14-18)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 7	No	2019	36 (d) (27-36)	ug/l	0	80	Byproduct of drinking water chlorination	
Site 8	No	2019	37 (d) (21-37)	ug/l	0	80	Byproduct of drinking water chlorination	
Haloacetic Acid 5 (HAA5):								
Site 1	No	2019	56 (d) (29-56)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 2	No	2019	58 (d) (33-58)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 3	No	2019	69 (d) **** (41-69)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 4	No	2019	72 (d) **** (31-72)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 5	YES	2019	86 (d) (43-86)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 6	No	2019	44 (d) (27-44)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 7	No	2019	34 (d) (24-34)	ug/l	0	60	Byproduct of drinking water chlorination	
Site 8	No	2019	50 (d) (42-50)	ug/l	0	60	Byproduct of drinking water chlorination	

**** Although level is above regulatory limit, the Local Running Annual Average(LRAA) for these locations were not exceeded (d) This level represents the highest locational running annual average calculated from the data collected.

Lead and Copper Rule Sampling Results									
Contaminant	95th percentile	Date of Samples	Number Of Samples Collected	Number Above Action Level	Level Detected Max (Range)	Unit Measurement	MCLG	Regulatory Limit MCL, TT, AL, Highest Level Allowed	Likely Source of Contamination
Lead	10.7	June-Sept.2019	84	3	6.3 (g) (ND-32.6)	ug/l	0	AL: 15	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	251	June-Sept.2019	84	0	235 (g) (5.8-341)	ug/l	0	AL: 1.300	Corrosion of household plumbing systems; Erosion of natural deposits

(g) The level presented represents the 90th percentile of the 84 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 values detected at your water system. In the case of lead, 84 samples were collected at your water system and the 90th percentile value was 6.3 ug/l, the 11th highest value of the samples taken. In the case of copper, 84 samples were collected from your water system and the 90th percentile value was 235 ug/l, the 11th highest value of the samples taken. Of the 84 sites tested, 3 sites exceeded the action level for lead and zero sites exceeded the action level for copper.

h) Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Infants and young children are typically more vulnerable to lead in drinking water than the general population. 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. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and you should flush your tap for 30 econds to 2 minutes before using your tap water. Additional information regarding lead in drinking water is available from the Safe Drinking Water Hotline (I-800-426-4791).



Important Notice May 2020

Westchester Joint Water Works Asks Residents and Office Customers to Check Their Irrigation Systems, Use Water Wisely and "Fix a Leak"

Westchester Joint Water Works (WJWW), as well as the Town of Harrison, The Town of Mamaroneck and the Village of Mamaroneck are again encouraging their residents and commercial customers to check their irrigation systems, use water wisely and look for and fix any leaks in homes and office buildings. Below are simple facts that homeowners should be aware of regarding irrigation systems and leaks in household fixtures.

All WJWW customers with irrigation systems are reminded of the following:

- The system requires approval from WJWW and must be installed by a qualified contractor and needs to have a backflow prevention device.
- The system must be properly winterized in the fall before the onset of cold-freezing weather.
- The system and the backflow device must be properly tested for leaks before the start of the irrigation season; and
- The systems should have its own sub-meter to help determine how much water is actually used for irrigation.
- An irrigation system should be checked each spring before use to make sure it was not damaged by frost or freezing.
- An irrigation system with pressure set at 60 pounds per square inch that has a leak 1/32nd of an inch in diameter (about the thickness of a pen point) can waste about 6,300 gallons of water per month.
- To ensure that your in-ground irrigation system is not leaking water, consult with an irrigation specialist who has passed a certification program focused on water efficiency.
- Check your garden hose for leaks at its connection to the spigot. If it leaks while you run your hose, replace the nylon or rubber hose washer and ensure a tight connection to the spigot using pipe tape and a wrench.

The Facts on Leaks:

- Leaks can account for, on average, 10,000 gallons of water wasted in the home every year, which is enough to fill a backyard swimming pool.
- The amount of water leaked from U.S. homes could exceed more than 1 trillion gallons per year. That's equivalent to the annual water use of Los Angeles, Chicago, and Miami combined.
- Ten percent of homes have leaks that waste 90 gallons or more per day.
- Common types of leaks found in the home include leaking toilet flappers, dripping faucets, and other leaking valves. All are easily correctable.
- Fixing easily corrected household water leaks can save homeowners more than 10 percent on their water bills.
- Keep your home leak-free by repairing dripping faucets, toilet valves, and showerheads. In most cases, fixture replacement parts don't require a major investment and can be installed by do-it-yourselfers.
- The vast majority of leaks can be eliminated after retrofitting a household with new fixtures and other high-efficiency appliances.

Leak Detection:

- A good method to check for leaks is to examine your winter water usage. It's likely that a family of four has a serious leak problem if its winter water use exceeds 12,000 gallons per month.
- Check your water meter before and after a two-hour period when no water is being used. If the meter does not read exactly the same, you probably have a leak.
- One way to find out if you have a toilet leak is to place a drop of food coloring in the toilet tank. If the color shows up in the bowl within 15 minutes without flushing, you have a leak. Make sure to flush immediately after this experiment to avoid staining the tank.

Faucets and Showerheads:

- A leaky faucet that drips at the rate of one drip per second can waste more than 3,000 gallons per year.
- Leaky faucets can be reduced by checking faucet washers and gaskets for wear and replacing them if necessary.
- A showerhead leaking at 10 drips per minute wastes more than 500 gallons per year. That's enough water to wash 60 loads of dishes in your dishwasher.
- Most leaky showerheads can be fixed by ensuring a tight connection using pipe tape and a wrench.

Toilets:

- If your toilet is running constantly, you could be wasting 200 gallons of water or more every day.
- If your toilet is leaking, the cause is most often an old, faulty toilet flapper. Over time, this inexpensive rubber part decays, or minerals build up on it. It's usually best to replace the whole rubber flapper—a relatively easy, inexpensive do-it-yourself project that pays for itself in no time.
- If a family of four replaces its older, inefficient toilets with new one, it could save more than 16,000 gallons per year. Retrofitting the house could save the family approximately \$2,000 in water and wastewater bills over the lifetime of the toilets.

Important Reminder: As per Article 4, Sec. 3 of WJWW Rules and Regulations, the owner hereby accepts responsibility for payment of water that passes through the premises' water meter, whether used or wasted due to leaks or other problems.