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VILLAGE OF TARRYTOWN
WESTCHESTER COUNTY, NEW YORK

2016 Annual Water Quality Report

Tarrytown Water District
PWS ID Number NY5903461

May 2017

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INTRODUCTION

To comply with State regulations, the Village of Tarrytown will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your 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 the maximum contaminant level or any other water quality standards. 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 Tarrytown Water Department office at (914) 631-0356 between the hours of 7:00 a.m. to 3:30 p.m. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Village board meetings. The meetings are held on the first and third Mondays of each month, with the exception of summer months, when the Board only meets once a month. Exact meeting schedules, dates and times can also be reviewed by the public by visiting the Tarrytown website, www.tarrytowngov.com, or by calling the Village Hall at (914) 631-1885.

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.

The Village of Tarrytown has two sources of water. Tarrytown's year-round major source of water comes from the New York City Catskill Aqueduct System. The Village is "tapped" into the aqueduct just south of the Kensico Reservoir. This water is not filtered due to the high quality of the water. The NYC Catskill source is treated with ultraviolet disinfection, chlorine disinfection, and fluoride addition prior to our connection into Catskill aqueduct. Tarrytown's emergency source is the New York City Croton Aqueduct. This source is normally used when the Catskill source is unavailable due to repairs or low flows. The Croton source can supply 4 million gallons daily and is not filtered. The village requires prior authorization from the state to use croton source for the emergency water supply. In the year 2016, no water was supplied from the Croton Aqueduct. Water from both the sources is disinfected with Chlorine and meets Federal and State microbiological standards. The Croton source does not meet the new 1996 Surface Water Treatment Rule requirements for turbidity (suspended material in water, usually fine clay). The turbidity normally cannot be seen by the human eye. All surface water supplies including Tarrytown are under a Federal and State mandate to filter their water; however, Tarrytown is currently operating under a filtration avoidance waiver. The Village of Tarrytown has prepared a filtration study, which can be implemented if or when required.

Tarrytown Water Department uses injection of a blended orthophosphate in the treated water as a sequestering agent. The use of this chemical in drinking water has been approved by the Westchester County Department of Health.

SOURCE WATER ASSESSMENT PROGRAM (SWAP)

The New York State Department of Health (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 paragraphs 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.

NYC Watershed Introduction

This Public Water System obtains water from the New York City water supply system. Water primarily comes from the Catskill watershed east of the Hudson River and in emergencies from the Croton watershed in Putnam and Westchester counties. The New York City Department of Environmental Protection (NYCDEP) 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 www.nyc.gov/dep/watershed.

SOURCE SPECIFIC ASSESSMENTS

This Public Water System obtains its water primarily from the Catskill watershed east of the Hudson and in emergencies from the Croton watershed in Putnam and Westchester counties. The main water quality concerns associated with land cover in these watersheds are agriculture and residential land uses which can contribute microbial contaminants, pesticides, and algae producing nutrients. There are also some concerns associated with wastewater, but advanced treatments which reduce contaminants are in place for most of these discharges. Additionally, the presence of other discrete facilities, such as landfills, chemical bulk storage, etc. could lead to some local impacts on water quality, but significant problems associated with these facilities are unlikely due to the size of the watershed and surveillance and management practices. In addition, the shallow nature of the Croton reservoirs, along with excess algae nutrients and the presence of wetlands in the watershed, contribute to periods of elevated water tint and disinfection by-product precursor levels.

FACTS AND FIGURES

Our water system serves approximately 12,000 people through approximately 2,506 service connections. The total amount of water produced in 2016 was 733,214,000 gallons from the Catskill Aqueduct. The daily average amount of water treated and pumped into the distribution system was 1.93 million gallons. Our estimated highest single day demand in the summer was 4.5 million gallons.

The estimated unaccounted for water in the Tarrytown Water System is approximately 37.63% this figure is based on the amount of water pumped against the amount of water sold. Unaccounted for water includes water lost due to water main breaks, firefighting, street cleaning, hydrant flushing and other miscellaneous unmetered uses of water.

The Village of Tarrytown has had a permanent Water Conservation Law in effect since 1989. A copy of this law may be obtained at the Tarrytown Water Department c/o the Village Administrator's Office, One Depot Plaza, Tarrytown, NY.

The Village utilizes a 4.0-million-gallon high service tank, located above 620 South Broadway, a 900,000-gallon low service tank located north of Sunnyside Avenue, off Neperan Road, and a 50,000-gallon air break tank located at the Shaft-10 Pumping Station on Neperan Road. All water is fed to the air break tank, where it is chlorinated and chemically treated prior to distribution.

The average single-family household in the Tarrytown Water Department uses approximately 8,600 cubic feet of water per year. The Tarrytown Water Department bills four times a year and the average bill per billing period is \$127.61 for a total of \$510.44 per year. The cost for water is \$62.25/1,000 cubic feet for residential customers. Commercial customers are billed on a monthly basis. The commercial water tiered rate starts at \$64.03/1,000 cubic feet to \$110.65/1,000 cubic feet. Outside commercial users start at \$96.04/1,000 cubic feet to \$165.96/1,000 cubic feet. Senior citizens who qualify for reduced rate pay \$46.43/1,000 cubic feet.

The Village Water Department Budget is \$5,004,149 and the cost of water purchased from the New York City is \$1,728.99 per million gallons. Excess water charge is \$3,364.59 per million gallons for greater than 114.41 gpcd use.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test our drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, synthetic organic compounds, total trihalomethanes, haloacetic acids and radionuclides. The table presented below depicts which compounds were detected in our drinking water. The State allows us to test some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, may be more than one year old.

The Village has available Annual Water Quality Report Supplement containing the analytical lab results for the contaminants tested. The Supplement is available for review upon written requests to customers of the Tarrytown Water Department. All requests must be made to the Tarrytown Water Department c/o the Village Administrator's Office, One Depot Plaza, Tarrytown, NY 10591. The Supplement will also be available for review at the Warner Library, North Broadway, Tarrytown, NY.

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 Westchester County Department of Health at 914-813-5000.

Table of Detected Contaminant

Contaminant	Violation (Y/N)	Date of Sample	Level Detected (Avg/Max/Range)	Unit Measurement	MCLG	MCL / TT / AL	Likely Source of Contamination
Microbiological Contaminants							
Turbidity ¹	N	2016	0.92/0.97 (0.78 – 0.97)	NTU	n/a	5	Soil Runoff
Radionuclides							
Beta particle and photon activity from man-made radionuclides	N	2013 ²	0.34	pCi/L	0	50 ³	Decay of natural deposits and man-made emissions.
Gross alpha activity (including radium-226 but excluding radon and uranium)	N	2013 ²	0.63	pCi/L ³	0	15	Erosion of natural deposits.
Combined Radium 226 & 228	N	201313 ²	0.61	pCi/L ⁸	0	5	Erosion of natural deposits.
Inorganics							
Barium	N	2016	0.0165	mg/L	2	2	Discharge of drilling wastes, metal refineries, erosion of natural deposits
Fluoride	N	2016	0.655	mg/L	n/a	2.2	Erosion of natural deposits; water additive that promotes strong teeth
Chloride	N	2016	12	mg/L	n/a	250	Naturally occurring or indicative of road salt contamination
Copper	N	Jan – June 2016	0.251 ⁵ (0.154 – 0.337)	mg/l	1.3	1.3	Corrosion of household plumbing system; Erosion of natural deposits; leaching from wood preservatives

Contaminant	Violation (Y/N)	Date of Sample	Level Detected (Avg/Max/Range)	Unit Measurement	MCLG	MCL / TT / AL	Likely Source of Contamination
Lead	N	Jan – June 2016	5.08 ⁵ (ND-19.7)	µg/l	0	15	Corrosion of household plumbing system; Erosion of natural deposits
Copper	N	July – Dec 2016	0.278 ⁵ (ND-0.671)	mg/l	1.3	1.3	Corrosion of household plumbing system; Erosion of natural deposits; leaching from wood preservatives
Lead	N	July – Dec 2016	7.3 ⁵ (ND-23.6)	µg/l	0	15	Corrosion of household plumbing system; Erosion of natural deposits
Manganese	N	2016	10.8 ⁶	µg/l	n/a	300	Naturally occurring; indicative of landfill contamination.
Sodium	N	2016	9.35	mg/L	n/a	See below ⁷	Naturally occurring; Road salt; Water softeners; Animal waste.
Calcium	N	2016	5.23 mg/l	mg/L	n/a	n/a	Naturally occurring.
Odor	N	2016	1.00	T.O.N.	n/a	3	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.
Color	N	2016	5	Units	n/a	15	Large quantities of organic chemicals, inadequate treatment, high disinfectant demand, and the potential for production of excess amount of disinfectant by-products such as trihalomethanes, the presence of metals, such as copper, iron, and manganese; Natural color may be caused by decaying leaves, plants, and soil organic matter.

Contaminant	Violation (Y/N)	Date of Sample	Level Detected (Avg/Max/Range)	Unit Measurement	MCLG	MCL / TT / AL	Likely Source of Contamination
Inorganics – Nitrate and Nitrite							
Nitrate	N	2016	ND	mg/L	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Disinfection Byproducts							
Haloacetic Acids	N	2016	41 ⁹ (10-50) ¹⁰	µg/l	n/a	60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes	N	2016	50 ⁹ (8.00-69) ¹⁰	µg/l	n/a	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
UCMR3¹¹							
Strontium	n/a	2014	21.4	µg/l	n/a	n/a	Unregulated Contaminant
Chlorate	n/a	2014	41.1	µg/l	n/a	n/a	Unregulated Contaminant

Turbidity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highest Monthly Value	0.93	0.95	0.97	0.91	0.94	0.97	0.84	0.87	0.89	0.97	0.78	0.97

1. Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.
2. Radiological testing is performed once every nine years under reduced monitoring. Results from 2013 are valid until 2021.
3. The state considers 50pCi/l to be the level of concern for beta particles.
4. Due to exceedence of lead Action level, Lead and copper testing will be performed on regular six monthly monitoring schedule starting from the year 2014.
5. The level presented represents the 90th percentile of the sites tested during January – June and July - December. 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. This year the 90th percentile values for lead and copper for the two rounds remains under the action level limits. The action level for lead was exceeded at one of the 62 sites listed during Jan – June sampling. The action level for copper was not exceeded at any of the sites tested during Jan – June sampling. The action level for lead was exceeded at two of the 62 sites listed during July – December sampling. The action level for copper was not exceeded at any of the sites tested during July – December sampling.

6. If iron and manganese are present, total concentration of both should not exceed 500 µg/l.
7. 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.
8. MCL of combined Radium 226 and 228 is 5 pCi/L.
9. The level represents the highest value of locational running annual average calculated from the data collected. The four set of samples were collected quarterly.
10. The Range represents the min and max values out of all TTHMs and HAA5s sample collected throughout the year.
11. For UCMR 3, all PWSs serving more than 10,000 people and 800 representative PWSs serving 10,000 or fewer people will monitor for 21 List 1 contaminants during a 12-month period from January 2013 through December 2015. The Village participate in the Assessment Monitoring uses common analytical method technologies used by drinking water laboratories. The Village monitoring was concluded in February 2014.

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 to one trillion parts of liquid (parts per trillion - ppt).
- Picograms per liter (pg/l): Corresponds to one part per of liquid to one quadrillion parts of liquid (parts per quadrillion – ppq).
- Picocuries per liter (pCi/L): A measure of the radioactivity in water.
- Millirems per year (mrem/yr): A measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

What does this information mean?

As you can see from the table above, 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 this year the 90th percentile values for lead and copper for the two rounds remains under the action level limits. The action level for lead was exceeded at one of the 62 sites sampled during Jan – June sampling. The action level for copper was not exceeded at any of the sites tested during Jan – June sampling. The action level for lead was exceeded at two of the 62 sites sampled during July – December sampling. The action level for copper was not exceeded at any of the sites tested during July – December sampling.

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. Village of Tarrytown water system 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?

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2016, we had a monitoring violation in the month of June for not collecting the required number of total-coliform samples from the distribution system. Water system collected 9 total-coliform samples during the month. The required monthly sampling is 10.

The following are the monitoring and reporting violations, noticed by EPA, for the lead and copper compliance rule during the year 2013 to 2015, and their corresponding responses:

1. Village of Tarrytown did not complete material evaluation of the water distribution in order to identify a pool of targeted sampling sites (40CFR 141.86(a)/10NYCRR 5-1.42(a)).
Response: The Village completed distribution system material evaluation in 2016; revised targeted Tier-1 sites have been submitted to the Department Health.
2. During sample collection for the year 2013, 2014, and 2015, the Village did not provide notification or required evidence to the Health Department prior to supplementing Tier-1 sampling sites with Tier-3 sampling sites (40CFR 141.86(a)(4)/10NYCRR 5-1.42(a)(4) and (8)).
Response: Village has since coordinated with the Health Department, added more than the required number of Tier-1 sampling sites to the monitoring plan,

and revised the protocol to provide notification of any change of sampling site in writing prior to the sampling.

3. Village did not provide evidence that 50 percent of tap samples were collected from sites that contain lead pipes or copper pipes with lead solder and 50 percent were collected from sites served by a lead service line for monitoring performed during the year 2013, 2014 and 2015. WCDOH and NYSDOH were not notified and reasons were not provided about the steps taken to located enough lead services lines (40CFR 141.86(a)(8)/10NYCRR 5-1.42(a)(9).

Response: In 2016, Village completed the material evaluation and identified more than required number of Tier-1 lead service lines. This has been coordinated with the WCDOH.

4. Based on review of the customer chain of custody forms, few of the samples collected during the year 2013, 2014 and 2015 that did not stand motionless in the plumbing for a minimum of 6 hours (40CFR 141.86(b)(2)/10NYCRR 5-1.42(b)(1).

Response: Starting in 2016, the Village has been more aggressive in verifying the required sampling data provided by the customers to avoid sampling errors and to immediately resample, when necessary, to meet compliance.

5. Village did not include the results of sampling and re-sampling collected at the two locations during the July to December 2014 monitoring period (40CFR 141.86(e), 141.90 (a)(1)(i)/10NYCRR 5-1.49(a).

Response: The sample chain of custody did not meet required compliance and based thereon, sample results were not reported. In the future, Village will be submitting all test results to the WCDOH regardless of whether the results were in compliance with the standards. However, the Village intends to be fully compliant in the future.

6. Village did not provide evidence, a site change form, or an explanation to WCDOH for eliminating a sampling location in 2015 which was previously included in the sampling pool for the period from 2011 through 2013 and for the

period from July to December in 2014 (40CFR 141.90(a)(v)/10NYCRR 5-1.49(a)(5).

Response: This was verbally coordinated with the Health Department. In future, the Village will be providing all notification to the Health Department in writing. Notification procedures have been coordinated with the Department.

7. Village did not conduct WQP monitoring following the 2013 lead AL exceedance (40CFR 141.86, 141.87/10NYCRR 5-1.43).

Response: The Village has started monitoring WQPs as required by the WCDOH.

8. Village did not report monitoring data within ten (10) days following the end of the monitoring period (40CFR 141.90(a)).

Response: In 2013 and 2014, three reporting delays were realized due to resampling and that the reporting deadline occurred on a weekend. This was coordinated with the WCDOH. In the future, Village will be in compliance with the ten-day reporting rule.

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 percent removal. New York City Department of Environmental Protection (NYCDEP) samples for Cryptosporidium oocysts on a weekly basis. During the 2016 sampling period, thirteen (13) samples (50 Liters each) were collected from the New Croton Reservoir and sixty-one (61) samples (50 Liters each) were collected from the Kensico Reservoir. From these 50-liter samples, At Kensico Reservoir six (6) Cryptosporidium cysts. Therefore, our testing indicates the presence of Cryptosporidium is in our source water. However, 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 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. New York City Department of Environmental Protection (NYCDEP) samples for Giardia cysts on a weekly basis. During the 2016 sampling period, thirteen (13) samples (50 Liters each) were collected from the New Croton Reservoir and sixty-one (61) samples (50 Liters each) were collected from the Kensico Reservoir. From these 50-liter samples, two (2) Giardia cysts were detected at the New Croton Reservoir. and forty-two (42) Giardia cysts were detected at the Kensico Reservoir. Therefore, our testing indicates the presence of Giardia in our source water. However, 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?

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).

All sources of drinking water (both tap water and bottled water) including rivers, lakes, streams, ponds, reservoirs, springs, and wells contain contaminants. 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 activity. Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, farming.
- *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial process and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

- *Radioactive contaminants*, which can be naturally occurring or be the result of oil and gas production and mining activities.
- *Unregulated contaminants* are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminants monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

INFORMATION ON UNREGULATED CONTAMINANTS

Our system performed monitoring for the EPA Unregulated Contaminant Monitoring Regulation (UCMR3) for the Assessment Monitoring of 21 Unregulated Contaminants. The last quarter sampling was done in February 2014. The monitoring results of the detected contaminants are included in the table of detected contaminants. If you have any questions, about the Unregulated Contaminants, please contact EPA's Safe Drinking Water Hotline at 800-426-4791 for information on UCMR3 monitoring. This list of contaminants is not subject to any proposed or promulgated national primary drinking water regulation (NSDWRs), are known or anticipated to occur in public water systems, and may require regulations under the Safe Drinking Water Act (SDWA).

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. Fluoride is added to your water by the New York City Department of Environmental Protection (NYCDEP) before it is delivered to us. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at a properly controlled level. To ensure that the fluoride supplement in your water provides optimal dental protection, the NYCDEP monitor fluoride levels on a daily basis to make sure fluoride is maintained at an optimal range from 0.8 to 1.2 mg/l. During 2016 monitoring showed fluoride level in your water were in the optimum range 100% of the time.

INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS

This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

Spanish : Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

French : Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend 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 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 and helps 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 up 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 these invisible toilet leaks. Fix it and you can 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 it moved, you have a leak.

SYSTEM IMPROVEMENTS

In 2016, six (6) water main breaks occurred which were repaired. Additionally, the Village replaced three (3) fire hydrants and seven (7) water service lines from the tap to curb valve in the Water District.

CLOSING

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. Please do not hesitate to call the Village Hall at (914) 631-1885 if you have any questions.