ANNUAL DRINKING WATER QUALITY REPORT FOR 2018 CANANDAIGUA-FARMINGTON WATER DISTRICT MANCHESTER VILLAGE AND TOWN WATER DISTRICTS

Introduction

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. The purpose of this report is to provide information about the quality of water that we provide to you. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. Last year, in the Canandaigua-Farmington Water District, the Town of Manchester and the Village of Manchester your tap water met all State drinking water health standards. We are committed to ensuring the quality of your water. If you have any questions about this report or concerning your water utility, please contact either:

Canandaigua-Farmington:David Degear, Water Superintendent(585) 924-3158Town of Manchester:William Murphy, Water Superintendent(585) 289-3010Village of Manchester:Jeff Liberati, Water Superintendent(585) 289-4340New York State Department of HealthGeneva District Office(315) 789-3030

We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Board Meetings. The meetings are held:

Town of Farmington: The second and fourth Tuesdays of each month at 7:00 p.m. at the

Farmington Town Hall located at 1000 County Road 8, Farmington, New

York.

Town of Manchester: The second Tuesday of each month at 6:00 p.m. at the Manchester Town Hall

located at 1272 County Road 7, Clifton Springs, New York.

Village of Manchester: The first Monday of each month at 6:00 p.m. at the Manchester Village Hall

located at 8 Clifton Street, Manchester, New York.

Where Does Our Water Come From?

Our water source is surface water source, Canandaigua Lake. The Canandaigua-Farmington Consolidated Water District is supplied from City of Canandaigua. The City of Canandaigua operates a Water Filtration Plant located on West Lake Road in the Town of Canandaigua. After filtration, carbon can also be added for taste and odor control. The water is disinfected by injection of gaseous chlorine, sodium hydroxide is added for pH control to reduce corrosion in the distribution system and then fluoride is added before being pumped to the distribution system. The treated water enters the Canandaigua-Farmington Consolidated Water District through meter pits located at the City of Canandaigua line or at the connection point with the City of Canandaigua's transmission main. The Canandaigua-Farmington Consolidated Water District supplies treated water from the City of Canandaigua to the Village of Manchester and the Town of Manchester Central District.

New York State Department of Health has completed a source water assessment for Canandaigua Lake with the following results:

This assessment found a moderate susceptibility to contamination for this source of drinking water. The amount of agricultural lands in the assessment area results in elevated potential for protozoa, phosphorus, DBP precursors, and pesticides contamination. While there are some facilities present, permitted discharges do not likely represent an important threat to source water quality based on their density in the assessment area. However, it appears that the total amount of wastewater discharged to surface water in this assessment area is high enough to further raise the potential for contamination (particularly for protozoa). There is also noteworthy contamination susceptibility associated with other discrete contaminant sources, and these facility types include: IHWS, CBS, landfills, mines, RCRA, and TRI.

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 human activity.

Contaminants that may be present in source water include:

- > Microbial contaminants
- > Inorganic contaminants
- > Pesticides and herbicides
- > Organic chemical contaminants
- > Radioactive contaminants

Facts and Figures

The Canandaigua-Farmington water system serves over 12,000 people through 4,447 service connections. The total water purchased for the year in 2018 was 658.385 million gallons. The daily average of water treated and pumped into the distribution system was 1.804 million gallons per day. Our highest day was 2.389 million gallons for the year. The amount of water delivered to customers was 571.444 million gallons for the year. 301,400 gallons were distributed though fire hydrant meter rentals. This leaves unaccountable water total of 86.640 million gallons for the year. Approximately 20% of our unaccountable water was used to flush watermains and hydrants, and for fighting fires and fire protection. Approximately 10% of our unaccountable total water was due to water main leakage. This leaves an unaccountable total of 60.648 million gallons, which is 9.21% of the total water purchased for 2018. In 2018, water customers were charged \$4.05 per 1,000 gallons for 0 to 6,000 gallons of water used and additional usage over 6,000 gallons is \$4.55 per 1,000 gallons or a minimum quarterly bill of \$24.30.

The **Canandaigua-Farmington Consolidated Water District sells** water to the Town and Village of Manchester. Their System facts and figures are as follows:

The <u>Village of Manchester</u> services a population of 1,709 through 501 service connections. The total water purchased in 2018 was 43.325 million gallons. The daily average to the distribution system was 118,699 gallons per day. The single highest day was 408,000 gallons. The amount of water sold to customers was 40.452 million gallons. Approximately 225,000 gallons of water was used to flush watermains and hydrants, fighting fires, etc. Water loss due to water main breaks 525,000. Two water main breaks in 2018, Merrick Circle and Pratt Road. Pratt Road had a Boil Water Advisory. This leaves an unaccounted total of 2.123 million gallons, which is 5.0% of the total purchased. In 2018, water customers were charged \$26.00 for 0 to 5,000 gallons of water used as the minimum quarterly bill. Any additional usage over 5,000 gallons is \$4.50 per thousand. \$4.00 water meter rent per quarter.

Manchester Village is 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 November 2018 we did not fully monitor or test for disinfection by-products and, therefore, cannot be sure of the quality of your drinking water during that time.

The <u>Town of Manchester Water Districts</u> services a population of 1460 through 570 service connections. The total water purchased in 2018 was 72.535 million gallons. The daily average to the distribution system was 198,726 gallons per day. The single highest day was 596,890 gallons. The amount of water sold to customers was 44.337 million gallons. 765,800 gallons was lost due to water main breaks. Approximately 27.432 million gallons of water was used to flush water mains and hydrants. In 2018 water customers were charged \$40.50 from 0 to 6,000 gallons of water used as the minimum quarterly bill. Any additional usage over 6,000 gallons is \$4.52 per 1,000 thousand. \$1.25 water meter rent per quarter.

Note: There was a positive test for Coliform on 12/4/18 on Armington Road.

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 drinking water by the City of Canandaigua before it is delivered to the Canandaigua-Farmington water system. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal range from 0.7 to 1.2 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 the City of Canandaigua monitor fluoride levels on a daily basis. In 2015 the City of Canandaigua's average was 0.79 mg/L. None of the monitoring results showed fluoride at levels greater than the 2.2 mg/L MCL for fluoride.

Are There Contaminants In Our Drinking Water?

In order to ensure that tap water is safe to drink, we routinely test your drinking water. The New York State Department of Health and the Environmental Protection Agency prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds. 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.

Canandaigua-Farmington Water District is required to test for List 1 contaminants, one of which is strontium, under the third round of Unregulated Contaminant Monitoring Rule (UCMR3). This monitoring provides a basis for future regulatory requirements.

In accordance with State regulations, the <u>City of Canandaigua</u> routinely monitors your drinking water for numerous contaminants. They test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes, and synthetic organic contaminants. The table presented below depicts which contaminants were detected in your drinking water. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Therefore, some of the data, though representative of the water quality, is more than one year old. Test results were all negative except for those indicated on the following table. The <u>Canandaigua-Farmington Consolidated Water District</u> tested the water for coliform bacteria at least ten (10) times a month. The <u>Village of Manchester</u> tested the water for coliform bacteria two times per month. The <u>Manchester Central Water District</u> tested the water for coliform bacteria once per month.

The table presented below depicts which compounds were detected in your drinking water.

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 (800-426-4791).**

			TEST R	ESULTS	, ,		
Substance (Units)	Violation Y/N	Date of Sample	Level Detected	Range Low - High	MCLG	MCL	Likely Source of Contamination
Microbiological Contar	ninants						
Total Coliform & E. coli ⁵ (ppm)	No	2018	N/A	0	0	>5% positive	Naturally present in the environment
CFWD Town of Manchester Village of Manchester							
Turbidity Combine Filter Effluent (NTU)2	No	2018	0.19 Max	0.02-0.19	N/A	TT=0.3	Soil runoff
Turbidity Individual Filter (NTU)2	No	2018	99% ≤ 0.3	N/A	N/A	TT=0.3	Soil runoff
Radiological Gross Alpha (pCi/1)	No	12/2013	ND	N/A	0	15	Erosion of natural deposits
Radium 226 (pCi/L)	No	02/2013	ND	N/A	0	5	Erosion of natural deposits
Radium 228 (pCi/L)	No	02/2013	0.4	0.4	0	5	Erosion of natural deposits
Inorganic Contaminants							
Lead (ppb)	0 ⁴ -No	06/2017	1.03	<1-1.6	N/A	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	No	06/2017	0.020	0.0025-0.075	N/A	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride (ppm) ¹	No	2018	0.84	0.58-1.15	N/A	2.2	Erosion of natural deposits; water additive; discharge from aluminum and fertilizer factories
Barium (ppm)	No	02/2018	0.023	N/A	2	2	Discharge of drilling wastes, metal refineries; erosion of natural deposits
Nickel (ppb)	No	02/2018	1.1	N/A	100	100	Erosion of natural deposits; discharge from stainless steel factories
Nitrate (ppm)	No	02/2018	0.27	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks; Erosion of natural deposits
Chromium (ppb)	No	02/2018	2.5	N/A	100	100	Erosion of natural deposits; discharge from steel factories
Strontium (ppb)	No	2014	106	99.3-121	N/A	N/A	Naturally present in the environment
Alkalinity (ppm)	No	2018	117	112-122	N/A	N/A	Naturally present in the environment
Total Organic Carbon (ppm)	No	2018	2.2	1.3-2.7	N/A	N/A	Naturally present in the environment, measured at Entry Point
Dissolved Organic Carbon (ppm)	No	2018	2.2	1.9-2.6	N/A	N/A	Naturally present in the environment
UV254 (cm ³¹)	No	2018	0.0254	0.0164-0.0330	N/A	N/A	
Specific Ultraviolet Absorbance (L/mg-m)	No	2018	1.16	0.82-1.46	2	N/A	

Total trihalomethanes Stage 2	ninants				1 1		
Total trihalomethanes No 2018 556 38-62 N/A 80 No 2018 673 58.2-79.5 N/A 80 No 2018 553 51-60.2 N/A 80							
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Town of Manchester Village of Manchester No 2018 2018 673 553 58.2-79.5 51-60.2 N/A N/A 80 80 Total Haloacetic Acids (ppb) Stage 2 CFWD No No 2018 34 2018 34 31.8-37.5 N/A 60 N/A N/A 60 N/A 60 Town of Manchester No 2018 34² 26.2-45.8 N/A 34² 26.2-45.8 N/A N/A 60							
Village of Manchester No 2018 553 51-60.2 N/A 80 Total Haloacetic Acids (ppb) By-product of drinking wat Chlorination Stage 2 CFWD No 2018 No 34 2018 31.8-37.5 34 ² N/A 26.2-45.8 N/A N/A 60 60	No	2018		38-62	N/A	80	
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	No	2018	31	29.2-32.7	N/A	60	
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Definitions:

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

Maximum Amount Detected: This column represents an average of sample result data collected during the reporting year. In some cases, it may represent a single sample if only one sample was collected.

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 possible.

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.

N/A: Not applicable

ND: Not detectable at testing limits.

Nephelometric Turbidity Unit (NTU): Measure of the clarity, or turbidity, of water.

Parts per Million: One part of liquid in one million parts of liquid (or milligram per liter).

Parts per Billion: One part of liquid in one billion parts of liquid (or microgram per liter).

Ranger (Low – High): This column represents a range of individual sample results, from lowest to highest, that were collected during the reporting year.

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

Picocuries per liter (pCi/l): Picocuries per liter is a measure of radioactivity in water.

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 disinfectant to control microbial contamination.

1Fluoride is added to the water supply to help promote strong teeth. The Department of Public Health recommends an optimal fluoride concentration range of 0.7 ppm to 1.2 ppm. Measured on laboratory's finished water.

2Turbidity is a measure of the cloudiness of the water, and is monitored as an indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of monthly samples be below 0.3 NTUs. Measured in lab.

3The level presented represents the 90th percentile. 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 lead and copper values detected at your water system.

4Number of homes out of 30 that were above the action level.

5Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present.

7This level represents the highest locational running annual average calculated from data collected.

Lead. 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 flush your tap for 30 seconds to 2 minutes before using your tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Do I Need To Take Special Precautions?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

Why Save Water and How to Avoid Wasting It?

the meter after 15 minutes. If it moved, you have a leak.

though our system has an adequate amount of water to meet present and future demands, there are a number of asons why it is important to conserve water:
Saving water saves energy and some of the costs associated with both of these necessities of life;
Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential fire fighting needs are met.
ou can play a role in conserving water by becoming conscious of the amount of water your household is using, and 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 one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

System Improvements

1. In February 2018 installation was completed on the new Andrews Road Water Meter Vault #7 which included 200 linear feet of 8" PVC DR-14 water pipe.

Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, and then check

- 2. May 2018 installation was completed on 680 linear feet of new 12" ductile iron waterline at the intersection of NYS Route 332 and Canandaigua-Farmington Town Line Road. This project included 180 linear feet of 14" and 20" HDPE DR-11 casing used underneath NYS Route 332 just north of the Town Line Road.
- **3.** In May we received approval from the Department of Health for installation of approximately 1700 linear feet of 8" DR-14 PVC watermain at Hathaway Drive and 5 fire hydrants to serve the Farmington Gardens 2 Phase 1 housing project.
- **4.** In September 2018, 1450 linear feet of new 12" watermain and 466 linear feel of new 8" watermain was installed on the new road Carmans Way
- **5.** October 2018 completed installation of 2,210 linear feet of new 12" DR-14 waterline along Beaver Creek Road Phase 1 from the intersection of NYS Route 96 and Beaver Creek Road in a southward direction to just north of the Beaver Creek bridge crossing. Phase 2 to County Road 41 & 332 will be completed in 2019.
- **6.** The new precast pre-engineered control Ross Valve station (PRV-3) at 1810 County Road 8 in the Town of Canandaigua has been ordered and will be installed in early 2019.
- 7. December 2018 installation of 451 linear feet of new 8" watermain at the Farmington Dental located on the corner of NYS Route 332 and Farmbrook Drive.
- **8.** 2,000 linear feet of 8" DR-14 PVC watermain was installed by a developer from the intersection of County Road 41 on Quenton Shire Drive for the Pintail Crossing housing project in the Town of Farmington.
- **9.** A developer installed 1,170 linear feet of 8" DR-14 PVC watermain at Hook Road running west for the Redfield Grove Phase 1 in the Town of Farmington.
- 10. A Developer installed 500 linear feet of 12" DR-14 PVC watermain on Marion Way and 924 linear feet of 8" watermain on Amber and Ivory Drive in Auburn Meadows Subdivision Section 6N. 375 linear feet of 8" DR-14 PVC watermain was installed on Ackerman Way and 140 linear feet of 8" watermain on Opal Drive in Auburn Meadows Subdivision Section 6S in the Town of Farmington.
- **11.** AT NYS Route 332 a developer installed 400 linear feet of 8" DR-14 PVC watermain for the Taco Bell and Microtel Hotel.
- **12.** Continued the yearly fire hydrant painting and maintenance in the Northeast and Northwest quadrants of the Canandaigua Farmington Water District.
- 13. Replacement of 30 each of the old 1961 Kennedy K-11 two-bib fire hydrants and old 6" valves with new 2018 three-bib Kennedy K-81-D's and the 6" guard valves in Farmington Grove, Kings Village, and Farmbrook Subdivisions, as well as in Hunt's Manufactured Home Community.
- **14.** Continued replacement of the older versions of our 2" commercial water meters and continued replacement of the older ³/₄" residential water meters.
- **15.** Completed the engineering and design for the replacement of the existing 8" watermain with a newer and larger 12" watermain at the intersection of NYS Route 332 and the Collett Road truck turning lane.
- **16.** Completed the engineering and design for the installation of a 12" watermain for the Ivory Drive Extension in the Town of Farmington at Carmen Way and the Farmington Pointe intersection.
- 17. Updated the engineering and design for the replacement of the existing 8" watermain on North Road from Sand Hill Road to Mohawk Street in the Town of Canandaigua. Construction is scheduled for 2019-2020.
- **18.** Continued developing funding options and design for the replacement of the 1961 One-million gallon water Tank #1 at Brickyard Road along with a new 16" transmission line from Brickyard Road to the Canandaigua Farmington Town Line.

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 call our office if you have questions.

- Canandaigua-Farmington (585) 924-3158
- Town of Manchester (585) 289-3010
- Village of Manchester (585) 289-4340
- New York State Department of Health (315) 789-3030

This Report Covers Public Water Supply ID Numbers:

Canandaigua-Farmington Consolidated Water District: 3401151

Village of Manchester: 3401160

Town of Manchester: Central Manchester: 3430014, WD: 3430020, WD3: 3430021