



Stewards of the Environment™

2017 Water Quality Report

*Dean Heights, Meadowbrook,
Park Glen and Pleasant View
Systems, New Milford*

It's Time To Conserve.

Water: It's Too Precious To Waste.



A Message from the President and CEO



Charles V. Firlotte
President and CEO



Dear Aquarion Customer:

Once again, we are pleased to provide you with our annual report on the quality of the water we deliver to you, and details on how it continues to meet or surpass every state and federal standard.

One of Aquarion's major highlights in 2017 was our becoming a wholly-owned subsidiary of Eversource. A member of the Fortune 500, headquartered in Boston and Hartford, Eversource will help us gain greater access to resources that will allow us to continue to improve the water supply infrastructure serving you. Eversource also shares the deep environmental commitment you see reflected in many Aquarion initiatives, such as our annual **Aquarion Environmental Champion Awards** program, now in its eighth year.

During this past year, we continued making great strides in our water conservation efforts, most notably in gaining customer cooperation in reducing the use of outdoor sprinkler systems. Many of these systems can waste enormous quantities of water, and their growing popularity can affect the stability of community water supplies. Fortunately, research shows that lawns and gardens can actually thrive on less water because it spurs greater root growth and nutrient intakes.

As a result, we worked with state and town officials to limit outdoor sprinkler usage to two days per week in four towns – Darien, Greenwich, New Canaan and Stamford – which were most affected by the drought. That reduced consumption by 860 million gallons – the capacity of some of our reservoirs. We are now expanding the limitations to two more towns – Westport and Newtown – with an eye towards rolling them out elsewhere, as well.

In 2018, let's work together to save even more water. Please check the last page of this report for some water-saving ideas, and find more at aquarionwater.com/consERVE. And, thanks in advance for helping ensure that there is always enough water for human consumption, fire protection and other vital needs.

Sincerely,

Charles V. Firlotte,
President and CEO

Clean, safe water is just the start!

Free admission tickets!

Be sure to take advantage of the special 2-for-1 ticket deals and other offers that Aquarion has arranged for its customers at great Connecticut attractions like the Stamford Museum and Nature Center, Connecticut's Beardsley Zoo, the Mystic Aquarium, the Westport Country Playhouse, the Sound Tigers hockey team, the Trumbull Marriott and Mystic Seaport. You'll find full details at aquarionwater.com.

We've got whales and penguins!

Watch Mystic Aquarium's fascinating collection of beluga whales and penguins live on the webcams Aquarion sponsors. Find the fun at aquarionwater.com.



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Dean Heights, Meadowbrook, Park Glen and Pleasant View Systems, New Milford Water Quality Table:

Your water has been tested for more than 100 compounds that are important to public health. In these four systems, the maximum number of compounds detected was 16. Most of these compounds are naturally

occurring or introduced as treatment to improve water quality. Monitoring frequency varies from daily to once every nine years per EPA regulation, depending on the parameter. Our testing encompasses the full range of

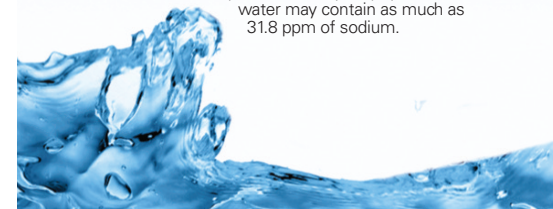
regulated inorganic, organic and radiological compounds, and microbiological and physical parameters. Results shown below are for detected compounds only.

Substance (Units of Measure)	Highest Allowed by Law			Dean Heights and Meadowbrook Systems Detected Level			Park Glen and Pleasant View Systems Detected Level			
	MCLG	MCL	Compliance	Test Date	Average	Range	Compliance	Test Date	Average	Range
Inorganic Compounds										
Barium (ppm)	2	2	YES	2014, 2017	0.081	0.056 – 0.15	YES	2016	0.058	0.003 – 0.068
Copper (ppm)	1.3	AL = 1.3	YES	2016	0.40*		YES	2016	1.24*	
Fluoride (ppm)	4.0	4.0	YES	2014, 2017	0.14	0.07 – 0.16	YES	2016	0.09	0.08 – 0.16
Lead (ppb)	0	AL = 15	YES	2016	4**		YES	2016	ND < 1**	
Nitrate (ppm)	10	10	YES	2017	2.74	2.68 – 2.90	YES	2017	5.15	0.276 – 0.558
Disinfectant										
Chlorine (ppm)	MRDLG 4	MRDL 4	YES	2017	1.11	0.31 – 1.66	YES	2017	0.88	0.39 – 1.12
Organic Compounds										
Total Trihalomethanes (ppb)	NA	80	YES	2017	16***	7 – 16	YES	2017	13***	5 – 13
Total Haloacetic Acids (ppb)	NA	60	YES	2017	4***	1 – 4	YES	2017	4***	1 – 4
Radiologicals										
Alpha Emitters (pCi/L) ^{^^}	0	15	YES	2016	ND < 3.0	ND < 3.0 – 3.9	YES	2017	ND < 3.0	ND < 3.0 – 7.8
Uranium (ppb) ^{^^^}	0	30	YES	2016	3.1	ND < 1 – 4.5	YES	2017	ND < 1.0	ND < 1.0
State-Required Testing										
Physical Characteristics[^]										
Color (CU)	NA	15	YES	2017	1	0 – 3	YES	2017	2	0 – 5
pH	NA	6.4 – 10.0	YES	2017	7.4	7.2 – 7.7	YES	2017	7.6	7.1 – 9.8
Turbidity (NTU)	NA	5	YES	2017	0.13	0.05 – 0.40	YES	2017	0.18	0.10 – 0.60
Inorganic Compounds										
Chloride (ppm)	NA	250	YES	2014, 2017	84.4	83.0 – 88.1	YES	2016	38.7	3.0 – 45.0
Sodium (ppm)	NA	NL = 28	NA	2014, 2017	30.0	29.4 – 31.8	NA	2016	13.3	4.8 – 14.8
Sulfate (ppm)	NA	SMCL = 250	NA	2014, 2017	17.0	16.7 – 18.0	NA	2016	29.6	9.8 – 33.0

Footnotes and Definitions for table on left

- < Less than
- AL Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- CU Color Units
- MCL Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- MCLG Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- MRDL Maximum Residual Disinfectant Level: 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.
- MRDLG Maximum Residual Disinfectant Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- NA Not Applicable
- ND Not Detected
- NL State of Connecticut customer notification level
- NTU Nephelometric Turbidity Units, a measure of the presence of particles. Low turbidity is an indicator of high-quality water.
- pCi/L Picocuries per liter
- ppb parts per billion, or micrograms per liter (ug/L)
- ppm parts per million, or milligrams per liter (mg/L)
- SMCL Secondary Maximum Contaminant Level
- * 90th percentile value in copper monitoring. Result is representative of customer sampling stagnant water. No locations exceeded the action level for copper. Highest 90th percentile value shown. 90th percentile values by system are: Dean Heights, 0.11 ppm; Meadowbrook, 0.40 ppm; Park Glen, 1.24 ppm; Pleasant View, 0.17 ppm.
- ** 90th percentile value in lead monitoring. Result is representative of customer sampling stagnant water. No locations exceeded the action level for lead. Highest 90th percentile value shown. 90th percentile values by system are: Dean Heights, 3 ppb; Meadowbrook, 4 ppb; Park Glen, ND < 1 ppb; Pleasant View, ND < 1 ppb.
- *** Reported value is the highest measurement for disinfection by-products in the distribution system. Values in the range are individual measurements.
- ^ Measured at representative locations within the distribution system.
- ^^ Trace levels of Alpha Emitters were detected in the Meadowbrook and Pleasant View systems only.
- ^^^ Trace levels of Uranium were found in the Meadowbrook and Pleasant View systems only.

Health Effects for The Dean Heights System
Sodium: If you have been placed on a sodium-restricted diet, please inform your physician that our water may contain as much as 31.8 ppm of sodium.



Your Health Is Our Priority

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)**.

Here is some additional information of interest about Aquarion's drinking water.

Where does your water come from?

Your water is collected in wells and delivered to you through an underground piping system. The Dean Heights System supply is drawn from three wells. It serves about 160 people and has an average customer demand of 9,700 gallons of water per day (GPD). The Meadowbrook System supply is drawn from eight wells. It serves about 400 people and has an average customer demand of 26,600 GPD. The Park Glen System supply is drawn from two wells. It serves about 50 people and has an average customer demand of 2,800 GPD. The Pleasant View System supply is drawn from four wells. It serves about 210 people and has an average customer demand of 16,100 GPD. Company-wide, an average of 13.8% of the demand is water drawn for firefighting, water main cleaning, water main breaks and leaks, and unauthorized use.

How is your water treated?

Water from the wells is filtered naturally underground, then disinfected. The Dean Heights, Meadowbrook and Park Glen systems' wells are further treated to protect the distribution system, and the Pleasant View System wells are filtered to remove iron.

Cryptosporidium

The EPA requires public water systems that use surface water sources to monitor for Cryptosporidium. This is a microbial pathogen found in lakes and rivers throughout the U.S. that can cause gastrointestinal illness if consumed. Aquarion continues to meet or exceed state and federal health and treatment standards. In addition, there are no reported cases of waterborne disease due to Cryptosporidium in Aquarion Water Company's drinking water.

Disinfection By-Products

Disinfection by-products (DBPs) are chemicals formed during the disinfection process, when naturally occurring organic matter reacts with chlorine, which is added to water to eliminate bacteria and other microorganisms. Currently there are limits on two types of DBPs known as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (THAA). Some people who drink water containing DBPs that exceed these limits over many years may experience problems with their livers, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

The state has implemented new DBP regulations that change how compliance with the standards is determined. The intent is to increase protection against the potential health risks associated with DBPs. Aquarion Water Company continues to evaluate its systems to ensure compliance with DBP regulations.

Source Water Assessment Report

Connecticut's Department of Public Health (DPH) states in its Source Water Assessment Report that the public drinking water sources in the Dean Heights System have a high susceptibility to potential contamination. The Meadowbrook and Pleasant View systems' sources have a moderate susceptibility to potential contamination. The Park Glen System does not have a Source Water Assessment Report. To read the DPH reports, visit ct.gov/dph.

(continued on page 5)

Understanding Your Water Quality Table

Barium:	Erosion of natural deposits.
Copper:	Corrosion of household plumbing systems.
Fluoride:	Erosion of natural deposits.
Lead:	Corrosion of household plumbing systems.
Nitrate:	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Chlorine:	Water additive used to control microbes.
Total Trihalomethanes:	By-product of drinking water chlorination.
Total Haloacetic Acids:	By-product of drinking water chlorination.
Alpha Emitters:	Erosion of natural deposits.
Uranium:	Erosion of natural deposits.
Color:	Natural organic matter such as decaying leaves; naturally occurring iron and manganese.
pH:	Naturally occurring.
Turbidity:	Sediment particles; naturally occurring iron and manganese; soil runoff.
Chloride:	Naturally present in the environment.
Sodium:	Use of road salt; naturally present in the environment.
Sulfate:	Naturally present in the environment.



Copper

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level* over a relatively short period of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor. Major sources of copper in drinking water include corrosion of household plumbing systems and erosion of natural deposits.

*The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Revised Total Coliform Rule

This consumer confidence report reflects changes in drinking water regulatory requirements during 2016. All water systems were required to comply with the Total Coliform Rule from 1989 to March 31, 2016, and began compliance with the new Revised Total Coliform Rule on April 1, 2016. The new rule maintains the purpose of protecting public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e. total coliform and *E. coli* bacteria). The EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contaminants to identify and fix problems. As a result, there is no longer a monthly maximum contaminant level violation for multiple total coliform detections. Instead, the rule requires water systems that exceed a specified frequency of total coliform occurrences to assess the system and determine if any sanitary defects exist. If defects are found, the public water system must correct them.

Immuno-compromised persons

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

The federal Environmental Protection Agency (EPA) and Connecticut's Department of Public Health have established extensive regulations for water utilities to follow with regard to lead — and for very good reason. If present in drinking water, lead can cause numerous harmful effects on a person's health. The EPA has determined there is no safe level of lead.

Aquarion monitors for lead in the water we provide, by testing stagnant tap water samples from high-risk homes (such as homes built before 1950). We follow regulations mandated by the Safe Drinking Water Act, in which the EPA established a limit: 15 parts per billion (or micrograms per liter) in no more than 10 percent of tap water samples. Meeting this limit indicates that the water is minimally corrosive to lead.

If tests reveal that more than 10 percent of tested homes exceed the limit, then the EPA mandates a series of actions we would have to take. These include water treatment, notifying customers about the issue and removing lead service lines. The Aquarion system that supplies your water complies with the lead limit. Even so, some homes may have elevated lead levels due to lead materials in the plumbing or service line.

Health Effects

Lead is especially harmful for infants and young children, causing developmental delays, learning difficulties, irritability, loss of appetite, weight loss, sluggishness, fatigue, abdominal pain, vomiting, constipation and hearing loss.

Effects on adults may include high blood pressure, abdominal pain, constipation, joint pains, muscle pain, decline in mental functions such as abstract thinking and focus, numb or painful extremities, headache, memory loss, mood disorders, fertility issues in men, and miscarriage or premature birth in pregnant women.

Do you have a lead service line?

A service line is the pipe that connects a customer's premises to Aquarion's water main in the street. The customer owns the portion of the service line closest to the premises, while Aquarion owns the portion closest to the street. In some older structures built before 1950, these lines may have been made of lead.

If present, a lead service line can be the primary source of lead in your drinking water, because there is a much greater surface area where lead contacts the water, compared to lead-soldered pipe joints and leaded brass fixtures.

Therefore, if your house was built prior to 1950, you should check the service line where it enters the wall of your basement to see if it is made of lead. If it is a lead line, contact Aquarion at **800-732-9678** for advice on replacing it. This will help reduce your potential exposure to lead in drinking water.

How to reduce exposure to lead in drinking water

Damage from lead exposure cannot be cured, but it can be prevented, especially in drinking water. The best methods for reducing your exposure to lead include removing lead service lines and lead in your home's plumbing, and reducing the amount of time your water sits stagnant in contact with lead materials in the service lines and faucets.

- ◆ If you have not used any of your faucets for a number of hours (for example, overnight or while you are at work), run the water for several minutes. This will bring in fresh water from our water main, which contains no lead. (To conserve water, catch the flushed tap water in buckets or pots to use for cleaning or to water plants.)
- ◆ Always use cold water for drinking, cooking and preparing baby formula. Never cook with or drink water from the hot water tap. Never use water from the hot water tap to make baby formula.



- ◆ Periodically remove and clean the faucet screens/aerators. While doing so, run the tap to eliminate debris.
- ◆ Check your service line where it enters your building and determine if it is made of lead. If it is, replace it.
- ◆ Identify and replace old plumbing fixtures that contain lead. Brass faucets, fittings and valves may leach lead into drinking water — especially those purchased before 2014.

Homeowners who want to determine whether there is lead in their water should have a laboratory test it. There is a list of certified testing laboratories on the state Department of Public Health's website (www.ct.gov/dph).

For more information, our website has a section dedicated entirely to lead in drinking water; visit aquarionwater.com/learnaboutlead. If you have questions, call our Water Quality Department at 203-445-7341 or, outside the Greater Bridgeport area, call 800-832-2373. You also can email us at waterquality@aquarionwater.com.

The EPA advises:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water comes primarily from materials and components associated with service lines and home plumbing. Aquarion Water Company is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components.

Customers can minimize the potential for lead exposure when water has been sitting for several hours by running the 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 or at epa.gov/safewater/lead.

Water Protection: Information You Should Know

Protecting water at the source

Even small quantities of pollutants may be enough to contaminate a drinking water supply. Examples of pollutants that may wash into surface water or seep into ground water include:

- ◆ Microbial contaminants from septic systems, agriculture and livestock operations, and wildlife;
- ◆ Inorganic contaminants such as salts and metals that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, or farming;
- ◆ Pesticides and herbicides from 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 processes; and
- ◆ Radioactive contaminants that can be naturally occurring.

How does Aquarion protect your drinking water?

Aquarion Water Company's commitment to providing the highest quality water is evidenced by our regular inspection of homes, businesses, farms and other sites that could pollute water supplies. We also review new land development projects for impact on water quality. In total, we conduct more than \$160,000 water quality tests annually. We use the best water treatment and filtration technology and continue to invest in our water systems' infrastructure to improve the security and quality of your water.



You can help prevent water contamination

- ◆ Ensure that your septic system is working correctly.
- ◆ Use chemicals and pesticides wisely.
- ◆ Dispose of waste chemicals and used motor oil properly.

- ◆ Report illegal dumping, chemical spills, or other polluting activities to the CT DEEP (Department of Energy and Environmental Protection) 24-hour hotline (**860-424-3338**), Aquarion Water (**800-732-9678**), or your local police.

Protecting your water at home:

Lawn irrigation systems

Your irrigation system helps keep the lawn healthy and beautiful, but did you know it can also contaminate your family's drinking water? Chemicals and microbes on the lawn can flow back through your home's plumbing and even into the neighborhood water mains under low-pressure conditions. These conditions can occur when fire hydrants are in use, and during water main breaks.



To prevent this backflow contamination, the state Department of Public Health (DPH) requires that we inspect your irrigation system to ensure that an appropriate backflow prevention device is in place. The state DPH also requires these devices be tested annually to ensure proper performance. Please call us at **203-337-5871** to schedule your annual inspection and test.

Water conservation in your home

We still encourage you to conserve this precious natural resource for the good of our environment. There are plenty of simple steps you can take to reduce your water consumption, such as using a broom to clean debris from your driveway instead of a hose. See more tips on page 7.



Water Conservation Works!

The last few years drove home the fact that even the Northeast has a finite supply of water, and that we all need to find ways to cut back on its use. Last year, Aquarion customers in Darien, Greenwich, New Canaan and Stamford reduced consumption by 860 million gallons of water – enough to fill an entire reservoir. In 2018, let's reduce waste even more and ensure a reliable water supply. Here are some easy tips:

Reduce excessive watering. Get rid of wasteful, "set 'em and forget 'em" clock timers. Water only when the ground feels dry. Use WaterSense-labeled spray sprinkler bodies.

Rely more on the sky. Put a rain barrel under a downspout to capture rainwater for your garden.



Forget fertilizing. Many use salts that make your lawn less drought-resistant.

Enjoy an edible landscape. Replace turf with berry bushes or fruit trees -- they use less water.

Fill it up! Wait until you have a full load before running your washing machine and dishwasher.



Look at labels. Washing machines and dishwashers certified by ENERGY STAR use far less water. WaterSense-labeled fixtures do the same.

Jilt the jiggling. Fix leaky toilets. Watch our step-by-step video about finding and fixing leaks. Better yet, upgrade to a new, WaterSense-labeled model to save three or more gallons with every flush.



Turn off the taps. While brushing your teeth, shaving or just groping for a towel, keep good, clean water from disappearing down the drain.



Catch this idea. While waiting for tap or shower water to warm up or cool down, capture it in a container for watering plants or for your pets.

Recycle cooking water. Save water used for cooking pasta and vegetables – it's great for plants.



Shorten shower times. You'll not only use less water – you'll reduce energy costs, too.

Put scraps to work. Compost vegetable scraps to nourish your garden, instead of using water to grind them up in your garbage disposal.



Put a chill on waste. Keep a pitcher of drinking water in the fridge so you don't have to run the tap until the water gets cold.

Conserving water quickly becomes second nature. For many more ways to ensure that your water supply stays healthy for decades to come, check out the tips at aquarionwater.com/conserv.

Visit Mystic Aquarium's Beluga Whales And Penguins Live!

Aquarion is the sponsor of five cameras trained on the exciting beluga whale and African penguin exhibits at Mystic Aquarium in Connecticut.

Go to aquarionwater.com and click on the cameras at any time during daylight hours to watch the Aquarium's beluga whales and penguins live.



aquarionwater.com

Questions About Your Water Quality Report?

Customers in the Bridgeport area who have questions about water quality should call us at **203-445-7341**, or outside the Bridgeport area, call **800-832-2373**. Customers also may email us at waterquality@aquarionwater.com, or visit aquarionwater.com.

For other questions, or to report discolored water/service problems, or if you would like to participate in a public meeting, call **203-445-7310** in the Bridgeport area or **800-732-9678** outside the Bridgeport area.

Connecticut Department of Public Health Drinking Water Section: **860-509-7333** or ct.gov/dph

U.S. Environmental Protection Agency's Safe Drinking Water Hotline: **800-426-4791** or epa.gov/safewater