

ANNUAL WATER QUALITY REPORT

Reporting Year 2024



Presented By



**Milford Water
Department**

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Este relatório contém a informação importante sobre sua água bebendo. Tenha-o por favor traduzido por um amigo ou por alguém que o compreende e o pode o traduzir para você.

PWS ID#: 2185000



Our Commitment

We are pleased to present to you this year's annual water quality report. This report is a snapshot of last year's water quality covering all testing performed between January 1 and December 31, 2024. Included are details about your source of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water that meets or exceeds all regulatory standards now and into the future. As we continue to face new challenges to the safety and quality of our drinking water, we wanted you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and providing you with this information, because informed customers are our best allies.

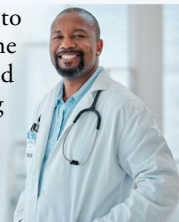
Where Does My Water Come From?

The Milford Water Department provides treated water from five different sources. Our Dilla Street facilities purify water from the Charles River, the Echo Lake reservoir, the Dilla Street wells, and the Clark's Island wells. The Charles River and Echo Lake reservoir are surface water sources, with Echo Lake being our largest source.

In addition to Dilla Street, the department also has a treatment facility off Depot Street that purifies water collected from seven gravel-packed wells located along Godfrey Brook. All of our wells are constructed in sand-and-gravel aquifers with depths ranging from 22 to 52 feet. The water from the treatment plants is delivered to our customers via the distribution system, which is made up of more than 100 miles of water pipes of various sizes. There are three water storage tanks containing approximately four million gallons of storage and three pumping stations that deliver approximately 900 million gallons of water each year. We have the ability to obtain mutual aid from the towns of Bellingham, Holliston, Hopkinton, and Medway for providing water to meet our short-term customer needs in an emergency.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. U.S. Environmental Protection Agency (U.S. EPA)/Centers for Disease Control and Prevention (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 at (800) 426-4791 or epa.gov/safewater.



Source Water Assessment

As part of the Source Water Assessment Program (SWAP), ADEP conducted assessments of our drinking water sources in 2002 for the purpose of determining susceptibility of each drinking water source to potential contamination. The assessment susceptibility for Milford Water was reported to be high based upon the presence of at least one high-threat land use within our protective areas. The complete SWAP report is available at the department office and online at www.mass.gov/lists/source-water-assessment-and-protection-swap-program-documents

Substances That Could Be in Water

In order to ensure that tap water is safe to drink, U.S. EPA and the Massachusetts Department of Environmental Protection (DEP) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health.



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 activity. Substances 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, or wildlife;

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and which may also come from gas stations, urban stormwater runoff, and septic systems;

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

MORE INFORMATION

For more information about this report, or for any questions relating to your drinking water, please call David L. Condrey, General Manager, at (508) 473-5110, or email milfordwater@milfordwater.com.

What Are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are a group of manufactured chemicals used worldwide since the 1950s to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. During production and use, PFAS can migrate into the soil, water, and air. Most PFAS do not break down; they remain in the environment, ultimately finding their way into drinking water. Because of their widespread use and their persistence in the environment, PFAS are found all over the world at low levels. Some PFAS can build up in people and animals with repeated exposure over time.

The most commonly studied PFAS are perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). PFOA and PFOS have been phased out of production and use in the United States, but other countries may still manufacture and use them.

Some products that may contain PFAS include:

- Some grease-resistant paper, fast food containers/wrappers, microwave popcorn bags, pizza boxes
- Nonstick cookware
- Stain-resistant coatings used on carpets, upholstery, and other fabrics
- Water-resistant clothing
- Personal care products (shampoo, dental floss) and cosmetics (nail polish, eye makeup)
- Cleaning products
- Paints, varnishes, and sealants

Even though recent efforts to remove PFAS have reduced the likelihood of exposure, some products may still contain them. If you have questions or concerns about products you use in your home, contact the Consumer Product Safety Commission at (800) 638-2772. For a more detailed discussion on PFAS, please visit <http://bit.ly/3Z5AMm8>.

Community Participation

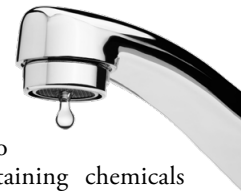
You are invited to voice your concerns about your drinking water, customer service, and department projects at any time. Our office hours are Monday through Friday, 8:00 a.m. to 4:30 p.m. The department's board of water commissioners meet monthly at the department's offices on Dilla Street, and the public is welcome to attend. At these meetings, the general manager presents a department update, which includes all concerns raised by customers. Should you wish to speak during the meeting, please contact the general manager and make a request to be added to the next available meeting's agenda.

About Our Violation

Our system violated the 20 ng/L PFAS6 Maximum Contaminant Level (MCL) drinking water standard during the January - March 2025 quarterly compliance period with an average of 23 ng/L from our Godfrey Brook Water Treatment Plant. This facility was removed from service on February 24, 2025, and will remain offline until the treatment plant is upgraded to remove PFAS6 below the MCL.

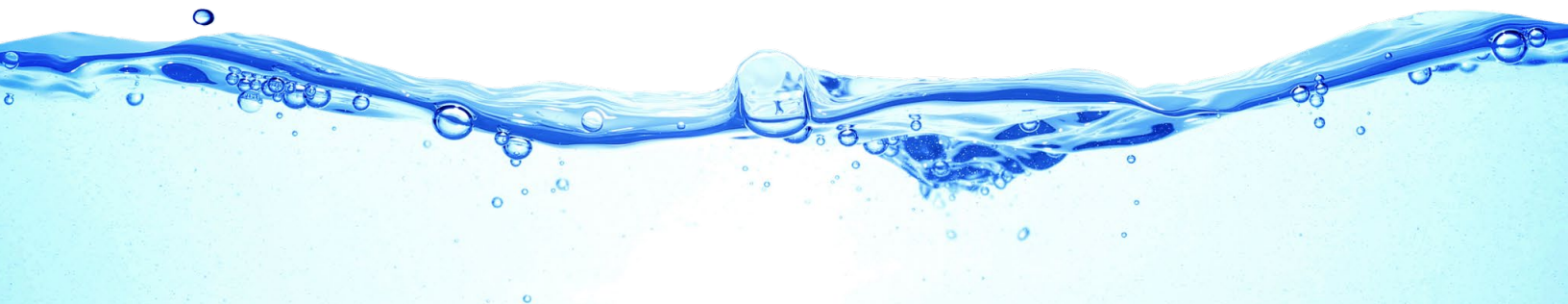
What's a Cross-Connection?

Cross-connections that contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air-conditioning systems, fire sprinkler systems, irrigation systems), or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (backpressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand), causing contaminants to be sucked out from the equipment and into the drinking water line (backsiphonage).



Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools, or garden chemicals. Improperly installed valves in your toilet could also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We have surveyed industrial, commercial, and institutional facilities in the service area to make sure that potential cross-connections are identified and eliminated or protected by a backflow preventer. We also inspect and test backflow preventers to make sure that they provide maximum protection. For more information on backflow prevention, contact the Safe Drinking Water Hotline at (800) 426-4791.



Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule and must meet specific health standards. Here, we only show those substances that were detected in our water between January 1 and December 31, 2024. A complete list of all our analytical results is available upon request. Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data is included, along with the year in which the sample was taken.

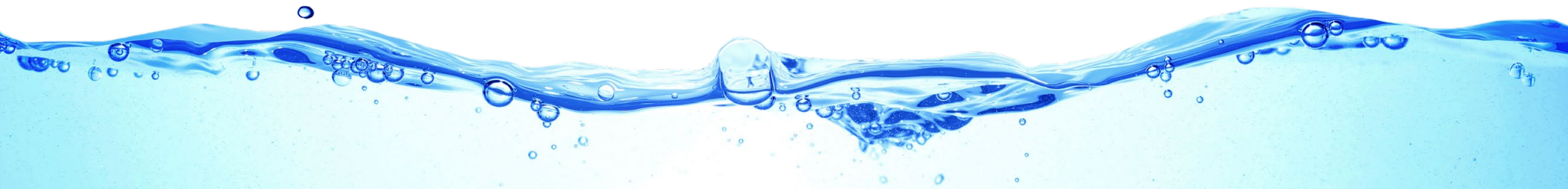
We participated in the fifth stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR5) program by performing additional tests on our drinking water. UCMR5 sampling benefits the environment and public health by providing the U.S. EPA with data on the occurrence of contaminants suspected to be in drinking water to determine if it needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data is available to the public, so please feel free to contact us if you are interested in obtaining that information. If you would like more information on the U.S. EPA's Unregulated Contaminant Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

REGULATED SUBSTANCES

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Barium (ppm)	2024	2	2	0.052	0.015–0.052	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorine (ppm)	2024	[4]	[4]	2.03	0.07–2.03	No	Water additive used to control microbes
Combined Radium (pCi/L)	2024	5 ¹	0	2.32	ND–8.12	No	Erosion of natural deposits
Haloacetic Acids [HAAs] (ppb)	2024	60	NA	30	14–30	No	By-product of drinking water disinfection
Nitrate (ppm)	2024	10	10	0.62	0.13–0.62	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Perchlorate (ppb)	2024	2	NA	0.085	0.067–0.085	No	Inorganic chemicals used as oxidizers in solid propellants for rockets, missiles, fireworks, and explosives
PFAS6 (ppt)	2024	20	NA	20.0	3.89–20.0	No	Discharges and emissions from industrial and manufacturing sources associated with the production or use of moisture- and oil-resistant coatings on fabrics and other materials; Use and disposal of firefighting foams
Total Organic Carbon [TOC] (ppm)	2024	TT	NA	2.7	1.4–2.7	No	Naturally present in the environment
TTHMs [total trihalomethanes] (ppb)	2024	80	NA	64	28–64	No	By-product of drinking water disinfection
Turbidity ² (NTU)	2024	TT	NA	1.20	NA	No	Soil runoff
Turbidity (lowest monthly percent of samples meeting limit)	2024	TT = 95% of samples meet the limit	NA	99.72	NA	No	Soil runoff

Tap water samples were collected for lead and copper analyses from sample sites throughout the community

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH %ILE)	RANGE LOW-HIGH	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2024	1.3	1.3	0.144	0.008–0.193	0/60	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	2024	15	0	ND	ND–0.003	0/60	No	Corrosion of household plumbing systems; Erosion of natural deposits



SECONDARY SUBSTANCES

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	SMCL	MCLG	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Aluminum (ppb)	2024	200	NA	29	ND–29	No	Erosion of natural deposits; Residual from some surface water treatment processes
Chloride (ppm)	2024	250	NA	142	76.2–142	No	Runoff/leaching from natural deposits
Color (units)	2024	15	NA	15	ND–15	No	Naturally occurring organic materials
Copper (ppm)	2024	1.0	NA	0.062	ND–0.062	No	Corrosion of household plumbing systems; Erosion of natural deposits
Iron (ppb)	2024	300	NA	70	ND–70	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2024	50	NA	16	ND–16	No	Leaching from natural deposits
Odor (TON)	2024	3	NA	4	ND–4	No	Naturally occurring organic materials
pH (units)	2024	6.5–8.5	NA	8.57	6.6–8.57	No	Naturally occurring
Sulfate (ppm)	2024	250	NA	10.9	5.94–10.9	No	Runoff/leaching from natural deposits; Industrial wastes
Total Dissolved Solids [TDS] (ppm)	2024	500	NA	288	164–288	No	Runoff/leaching from natural deposits
Zinc (ppm)	2024	5	NA	0.252	0.150–0.252	No	Runoff/leaching from natural deposits; Industrial wastes

UNREGULATED SUBSTANCES³

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Bromodichloromethane (ppb)	2024	7.3	3.5–7.3	By-product of drinking water disinfection
Chlorodibromomethane (ppb)	2024	2.2	1.2–2.2	By-product of drinking water disinfection
Chloroform (ppb)	2024	10.8	4.6–10.8	By-product of drinking water disinfection
Nickel (ppm)	05/08/2024	0.046	0.016–0.046	Naturally occurring
Sodium ⁴ (ppm)	05/07/2024	52	38–52	Naturally present in the environment; Stormwater runoff
Alkalinity (ppm)	10/15/2024	54	16–54	Naturally occurring
Calcium (ppm)	10/15/2024	18.7	11–18.7	Naturally occurring
Hardness (ppm)	10/15/2024	60.7	40.1–60.7	Naturally occurring
Magnesium (ppm)	10/15/2024	3.42	2.90–3.42	Naturally occurring
Perfluorobutanesulfonic Acid [PFBS] (ppt)	2024	4.74	2.21–4.74	NA
Perfluorobutanesulfonic Acid [PFBS] (ppb)	2024	0.0041	0.0032–0.0041	NA
Perfluorohexanoic Acid [PFHxA] (ppt)	2024	3.79	1.92–3.79	NA
Perfluorooctanesulfonic Acid [PFOS] (ppb)	2024	0.0061	NA	NA
Perfluorooctanoic Acid [PFOA] (ppb)	2024	0.0061	0.0040–0.0061	NA
Perfluoropentanoic Acid [PFPeA] (ppb)	2024	0.0035	NA	NA

¹ Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer. The amount detected is based on Running Annual Average from 4 quarters of sample results.

² Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the filtration system.

³ Unregulated contaminants are those for which the U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist U.S. EPA in determining their occurrence in drinking water and whether future regulation is warranted.

⁴ Sodium-sensitive individuals, such as those experiencing hypertension, kidney failure, or congestive heart failure, should be aware of the levels of sodium in their drinking water where exposures are being carefully controlled.

Definitions

90th %ile: Out of every 10 homes sampled, 9 were at or below this level. This number is compared to the Action Level to determine lead and copper compliance.

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

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 contaminants.

NA: Not applicable.

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

ppt (parts per trillion): One part substance per trillion parts water (or nanograms per liter).

SMCL (Secondary Maximum Contaminant Level): These standards are developed to protect aesthetic qualities of drinking water and are not health based.

TON (Threshold Odor Number): A measure of odor in water.

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