





PWS ID#: 2185000

Quality First Quality

once again we are proud to present our annual water quality report covering all testing performed between January 1 and December 31, 2010. As in years past, we are committed to delivering the best-quality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education while continuing to serve the needs of all of our water users. Thank you for allowing us to continue providing you and your family with quality drinking water.

We encourage you to share your thoughts with us on the information contained in this report. Should you ever have any questions or concerns, we are always available to assist you.

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 may be particularly at risk from infections. These people should seek advice about drinking water

from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) 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 http://water.

epa.gov/drink/hotline.

Where Does My Water Come From?

The Milford Water Company provides treated water from I 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. Our company also maintains a facility off Depot Street that purifies water collected from five wells located along the Charles River and Godfrey Brook. All of our wells are constructed in sand-and-gravel aquifers with depths ranging from 22 feet to 52 feet. Due to this relatively shallow nature, it is critical that we protect our resources against contamination. Our distribution system contains more than 100 miles of pipes, three water storage tanks, and three pumping stations that deliver approximately 1 billion gallons of water each year. Because each of our five sources of supply cannot alone provide the volume of water needed by our customers, each is used during different times of the year. One single source cannot usually be identified for every customer because we blend the water before purification and also during delivery. We have developed mutual aid agreements with the towns of Bellingham, Holliston, Hopedale, Hopkinton, and Medway for providing water to meet our short-term and long-range customer needs.

Fixtures with Green Stains

A green or blue-green stain on kitchen or bathroom fixtures is caused by tiny amounts of copper that dissolve in your home's copper plumbing system when the water sits unused overnight. Copper staining may be the result of a leaky faucet or a faulty toilet flush valve, so be sure your plumbing is in good working order.

Copper stains may also be caused by overly hot tap water. Generally speaking, you should maintain your water temperature at a maximum of 120 degrees Fahrenheit. You should consult the owner's manual for your heater or check with your plumber to determine your current heat setting. Lowering your water temperature will reduce the staining problem and save you money on your energy bill.

Also keep in mind that a tap that is used often throughout the day usually will not produce copper stains, so if you flush the tap for a minute or so before using the water for cooking or drinking, copper levels will be reduced.

Questions?

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

Lead and Drinking Water

If present, elevated levels of lead can cause serious ■ health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Milford Water 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 or at www.epa.gov/ safewater/lead.

LT2 Rule

The U.S. EPA has created the Long Term 2 Enhanced Surface Water Treatment Rule (LT2) for the sole purpose of reducing illness linked with the contaminant *Cryptosporidium* and other disease-causing microorganisms in drinking water. The rule will bolster existing regulations and provide a higher level of protection of your drinking water supply.

Sampling of our water source has shown the following:

- Cryptosporidium: ND to 0.098 per L
- Giardia lamblia: ND
- E. coli: ND

It is important to note that these results are from our raw water source only and not our treated drinking water supply. For more information, contact the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Source Water Assessment

As part of the Source Water Assessment Program (SWAP), the MA Department of Environmental Protection conducted assessments of our drinking water sources in 2004 for the purpose of determining the 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 company's office and online at www.mass.gov/dep/water/drinking/2185000.pdf.



Substances That Could Be in Water

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

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.

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.

About Our Violations

Monitoring and Reporting Violation

During the summer of 2010, we violated monitoring and reporting requirements of the drinking water regulations. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific man-made and naturally occurring contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the third quarter of 2010, 7/1/2010-9/30/2010, the company failed to take all of the required Total Chlorine Residual samples: 35 required, 26 submitted. During the month of August 2010, 8/1/2010-8/31/2010, the company failed to take all of the required Total Coliform samples for that month: 35 required, 26 submitted.

Because we did not complete all monitoring for the contaminants listed above, we cannot be sure of the quality of our drinking water during that time. There is nothing you need to do at this time. We have already collected and analyzed samples for the contaminants listed above and have submitted copies of the results to the MassDEP. The company continued to monitor for both of the contaminants during the above mentioned time periods and has continued to do so since. We have taken corrective actions to ensure that this oversight does not happen again in the future and is working closely with the MassDEP in this matter.

MCL Violation

Sample results received from the lab on January 3, 2011, for TTHM samples collected on December 21, 2010, had a quarterly average of 106.6 ppb and when combined with the three previous quarters (60.6, 86.8, 70.8, respectively), the sample put the Running Annual Average (RAA) at 81 ppb, which put us into a violation of the RAA MCL of 80 ppb.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Treatment Technique Violation

Violation Type	Date and Length of Violation	Steps Taken to Correct Violation	Health Effects
NON for TTHM Running Annual Average MCL	January 1, 2010, through December 31, 2010	The company hired an engineering firm to create a Corrective Action Plan and submitted it to the MassDEP. We are working closely with the DEP and our engineers to help minimize our customers' exposure to the TTHMs and bring the company back into compliance.	total organic carbon provides a medium for the formation of disinfection by-products. These by-products include

Sampling Results

During the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. The state requires us to monitor 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 are included, along with the year in which the sample was taken.

REGULATED SUBSTANCES							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Barium (ppm)	2010	2	2	0.042	0.014-0.042	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorine (ppm)	2010	[4]	[4]	0.35	0.06-1.90	No	Water additive used to control microbes
Chromium (ppb)	2010	100	100	0.0012	ND-0.0012	No	Discharge from steel and pulp mills; Erosion of natural deposits
Haloacetic Acids [HAA] (ppb)	2010	60	NA	21	0.65-80	No	By-product of drinking water disinfection
Nitrate (ppm)	2010	10	10	0.78	0.11-0.78	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Perchlorate (ppb)	2010	2	NA	0.104	ND-0.104	No	Inorganic chemicals used as oxidizers in solid propellants for rockets, missiles, fireworks, and explosives
TTHMs [Total Trihalomethanes] (ppb)	2010	80	NA	81	36–130	Yes	By-product of drinking water disinfection
Total Coliform Bacteria (# positive samples)	2010	1 positive monthly sample	0	1	NA	No	Naturally present in the environment
Total Organic Carbon (ppm)	2010	TT	NA	12	ND-12	No	Naturally present in the environment
Turbidity ¹ (NTU)	2010	ТТ	NA	0.990	0.225-0.990	No	Soil runoff
Turbidity (Lowest monthly percent of samples meeting limit)	2010	TT=95% of samples<0.3	NA	100	NA	No	Soil runoff
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SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2010	1.3	1.3	0.32	0/30	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2010	15	0	15	3/30	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)	2010	200	NA	0.19	ND-0.19	No	Erosion of natural deposits; Residual from some surface water treatment processes
Chloride (ppm)	2010	250	NA	160	30–160	No	Runoff/leaching from natural deposits
Color (Units)	2010	15	NA	20	10–20	No	Naturally occurring organic materials
Copper (ppm)	2010	1.0	NA	0.37	ND-0.37	No	Corrosion of household plumbing systems; Erosion of natural deposits
Iron ² (ppb)	2010	300	NA	240	ND-9,300	No	Leaching from natural deposits; Industrial wastes
Manganese ³ (ppb)	2010	50	NA	100	4.8–660	Yes	Leaching from natural deposits
Odor (TON)	2010	3	NA	2	1–4	No	Naturally occurring organic materials
pH (Units)	2010	6.5–8.5	NA	7.4	6.0-8.7	No	Naturally occurring
Sulfate (ppm)	2010	250	NA	19	ND-19	No	Runoff/leaching from natural deposits; Industrial wastes
Total Dissolved Solids [TDS] (ppm)	2010	500	NA	330	81–330	No	Runoff/leaching from natural deposits
Zinc (ppm)	2010	5	NA	0.39	0.0033-0.39	No	Runoff/leaching from natural deposits; Industrial wastes

UNREGULATED SUBSTANCES 4				
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Bromodichloromethane (ppb)	2010	12	ND-12	By-product of drinking water disinfection
Chlorodibromomethane (ppb)	2010	3.7	ND-3.7	By-product of drinking water disinfection
Chloroform (ppb)	2010	31	ND-31	By-product of drinking water disinfection
Sodium (ppm)	2010	66	17–66	Naturally present in the environment; Stormwater runoff

¹Turbidity 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.

Definitions

90th Percentile: Out of every 10 homes sampled, 9 were at or below this level.

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. Secondary MCLs (SMCL) are set for the control of taste and odor.

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.

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).

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.

² The high range result was found in a raw water source prior to treatment. The highest finished water result was 0.24 ppm. Milford Water Company is required to monitor both our finished water and raw water levels for this contaminant.

³ Manganese was measured in our filtered water at levels exceeding the secondary MCL (SMCL), which was set to protect against unpleasant aesthetic effects such as color, taste, odor, and staining of plumbing fixtures and/or laundry. There are no adverse health effects expected with this exceedance. Manganese is a naturally occurring mineral. At a level greater than 50 ppb, the water will appear brown, taste unpleasant, and may leave black stains on fixtures or on laundry. While manganese is part of a healthy diet, it can be harmful if consumed in large concentrations; infants should not drink water that contains manganese above this level, especially if they are bottle fed.

⁴Unregulated contaminants are those for which the U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the U.S. EPA in determining their occurrence in drinking water and whether future regulation is warranted.