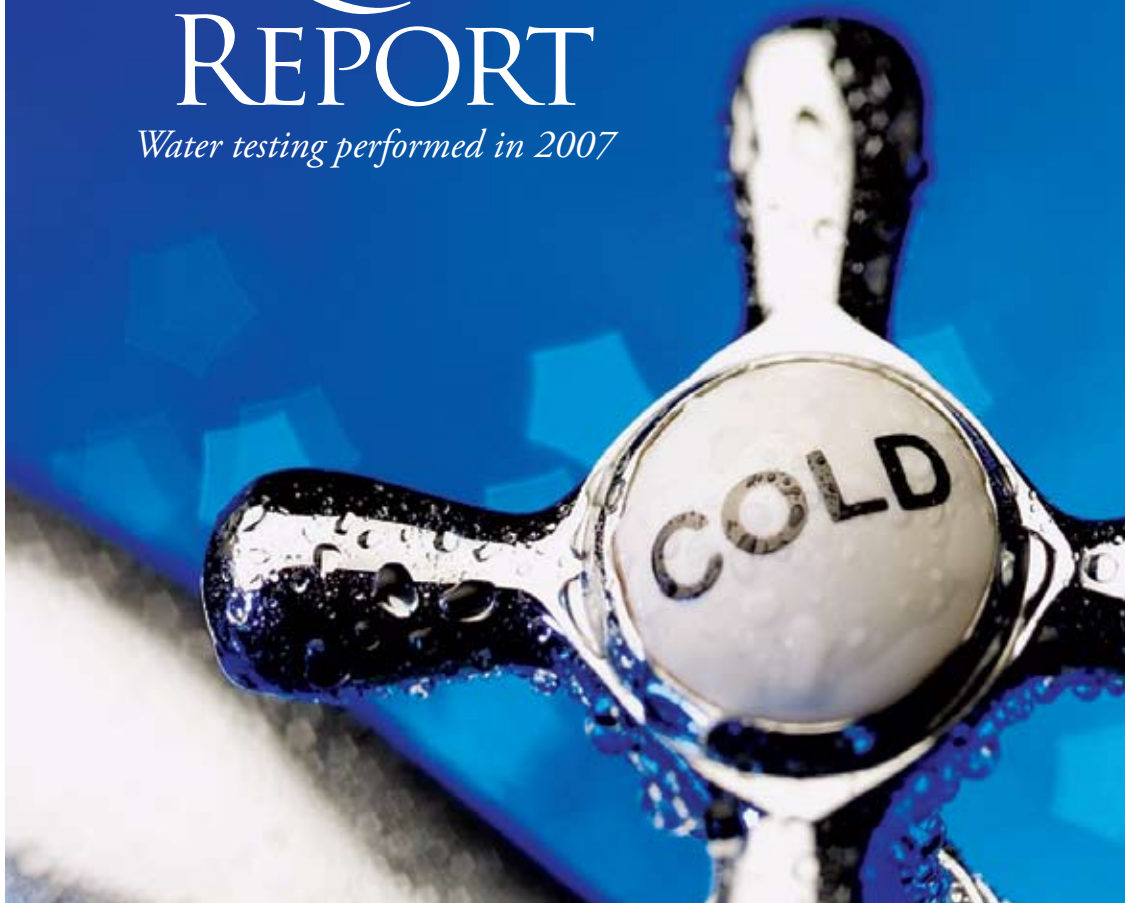


ANNUAL WATER QUALITY REPORT

Water testing performed in 2007



WALPOLE WATER
DEPARTMENT

PWS ID#: 4307000

Meeting the Challenge



We are once again proud to present to you our annual water quality report. Over the years we have strived to produce drinking water that meets or exceeds all state and federal drinking water standards. We continually strive to adopt new and better methods of delivering to you the best quality drinking water. As regulations and drinking water standards change, we are committed to incorporating these changes system-wide in an expeditious and cost-effective manner. As you were made aware through informational pamphlets that were distributed in March, we recently changed our method of disinfection by converting from chlorine to chloramines. While the vast majority of consumers are unaffected by this change, those using Walpole water for dialysis treatment and fish owners need to ensure that measures are taken to remove chloramines from the water.

As we enter our 113th year of providing public water service, we diligently maintain our objective of providing quality drinking water. Currently, this objective is achieved through the operation of municipally owned treatment facilities for each of Walpole's two aquifers. The H.E. Willis Plant located on Leonard Road was placed into service in June of 2004 and utilizes a technologically advanced treatment system. The Edward J. Delaney Plant (formerly School Meadow Brook) has been operating since June 1998 and continues to provide the desired level of treatment. If you have any health concerns related to the information in this report, we encourage you to contact your health care provider.

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.

Source Water Assessment

The Massachusetts Department of Environmental Protection has completed a Source Water Assessment and Protection (SWAP) report for the Town of Walpole's water supply. The report contains information relative to land uses in the water supply areas of both the Mine Brook and School Meadow Brook aquifer wells, which are highly susceptible to contamination. It also contains several recommendations including the use of best management practices and the performance of regular watershed inspections. These recommendations are being addressed through annual sanitary surveys of the aquifer areas and the management of stormwater discharges. As a member of the community, you can assist by limiting the use of pesticides and fertilizers on your lawn and by properly disposing of hazardous household chemicals. Anyone who wishes to read the report in its entirety may do so by visiting the water or health department offices located in the Town Hall or by going online at www.state.ma.us/dep/brp/dws. For more information, please call the Walpole Water Department at (508) 660-7309.

Substances That Could Be in Water

To ensure that tap water is safe to drink, the Department of Environmental Protection Agency (DEP) and the U.S. Environmental Protection Agency (U.S. EPA) prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The 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.

Questions?

The office of the Walpole Water Department is located on the second floor of the Town Hall at 135 School Street. The normal office hours are Monday, Wednesday and Thursday from 8:00 a.m. to 4:00 p.m.; Tuesday from 8:00 a.m. to 8:00 p.m.; and Friday from 8:00 a.m. to 12:00 p.m. For more information about this report, or for any questions relating to your drinking water, please call Rick Mattson, Superintendent of Sewer and Water, at (508) 660-7309.



Where Does My Water Come From?

The water supply for the Town of Walpole consists of groundwater, which is drawn from two underground water-bearing formations called aquifers. These aquifers were created thousands of years ago at the end of the Great Ice Age.

The School Meadow Brook Aquifer, located in the southern section of town, currently has seven wells that have historically provided three-quarters of the town's total water production. The Mine Brook Aquifer, located in the west-northwestern section of town, now has four sets of operational wells allowing for a more evenly balanced distribution of water production between the two aquifers.

As an alternative source of water, Walpole has interconnections with the towns of Foxboro and Norwood. These connections, which are located on Washington, Water and Union Streets, have not been used in recent years; however, they are maintained on a regular basis to ensure their availability if needed.

Lead and Drinking Water

In June, July, August and September the Water Department collected lead and copper samples from 30 homes throughout the community. During this round of testing none of the homes exceeded the Lead Action Level of 15 ppb. The Water Department offers the following educational statement:

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. The Walpole Water Department 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.

Water Conservation

You can play a role in conserving water and saving yourself money in the process 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. Here are few tips:

- 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 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 an invisible toilet leak. Fix it and you 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. Then check the meter after 15 minutes. If it moved, you have a leak.



Community Participation

The Board of Sewer and Water Commissioners holds regularly scheduled meetings on the second and fourth Monday of each month. Those who wish to attend or participate at meetings should look for postings in the Town Hall or call the secretary for details at (508) 660-7309. The public is invited to attend all meetings.

Sampling Results

Over the course of this year, the Walpole Water Department conducted more than 400 water quality tests looking for bacteria, nitrates, organics and other contaminants such as total trihalomethanes. We have compiled the table below to show what substances were detected in our drinking water during 2007. Even though all of the substances listed below are under the Maximum Contaminant Level (MCL) set by the U.S. EPA, we feel that it is important that you know exactly what was detected and how much of the substance was present 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
Alpha Emitters (pCi/L)	2005	15	0	1.5	ND–1.5	No	Erosion of natural deposits
Asbestos (MFL)	2005	7	7	2	NA	No	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	2007	2	2	0.006	0.005–0.006	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beta/Photon Emitters¹ (pCi/L)	2005	50	0	35	11–35	No	Decay of natural and man-made deposits
Chlorine (ppm)	2007	[4]	[4]	1.24	0.03–1.24	No	Water additive used to control microbes
Combined Radium (pCi/L)	2005	5	0	1.3	ND–1.3	No	Erosion of natural deposits
Fluoride (ppm)	2007	4	4	1.25	ND–1.25	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAA]² (ppb)	2007	60	NA	19.83	7.8–32.1	No	By-product of drinking water disinfection
Nitrate (ppm)	2007	10	10	0.92	0.44–0.92	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Simazine (ppb)	2006	4	4	0.1	ND–0.1	No	Herbicide runoff
TTHMs [Total Trihalomethanes]² (ppb)	2007	80	NA	61.19	38.1–84.1	No	By-product of drinking water chlorination

Tap water samples were collected from 30 sample sites throughout the community

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	ACTION LEVEL	MCLG	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE ACTION LEVEL	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2007	1.3	1.3	0.123	0	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2007	15	0	3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

UNREGULATED SUBSTANCES ³				
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Bromodichloromethane (ppb)	2007	16	3.4–16	By-product of drinking water disinfection
Chlorodibromomethane (ppb)	2007	5.0	0.6–5.0	By-product of drinking water disinfection
Chloroform (ppb)	2007	41	3.3–41	By-product of drinking water disinfection
Sodium⁴ (ppm)	2007	43.8	22.9–43.8	Erosion of natural deposits and road de-icing agents
Sulfate (ppm)	2007	8	8–8	Runoff/leaching from natural deposits; Industrial wastes

OTHER SUBSTANCES				
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Alkalinity (ppm)	2007	73	41–73	General water characteristic
Calcium (ppm)	2007	16	13–16	General water characteristic
Hardness (ppm)	2007	61	51–61	General water characteristic
Magnesium (ppm)	2007	5.1	4.4–5.1	General water characteristic
Potassium (ppm)	2007	46	17–46	General water characteristic

¹ The MCL for beta/photon emitters is written as 4 mrem/year. The EPA considers 50 pCi/L as the level of concern for beta emitters.

² Amount detected is the highest running annual average.

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 the 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 sodium levels where exposures are being carefully controlled. The Massachusetts Office of Research and Standards has established a guideline of 20 ppm for sodium.

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.

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.

MFL (million fibers per liter): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

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.

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).