



2024 Consumer Confidence Report PWS ID 1276000

Maintaining High Standards

The Southamptton Water Department (SWD) has prepared this Consumer Confidence Report to provide information on the source and contents of our water and related health risks associated with any detected contaminants. This report covers testing completed from January 1 through December 31, 2024.

To ensure that we provide the highest quality water available, your water system is operated by Massachusetts licensed operators who oversee the operations of our system 24 hours a day 365 days per year. Our water system is routinely inspected by the Massachusetts Department of Environmental Protection (MassDEP). MassDEP inspects our system for its technical, financial, and managerial capacity to provide safe drinking water to you. The MassDEP conducted a Sanitary Survey on August 2, 2023. No recommendations or violations were made or issued during this inspection.

In May of 2024, 650 feet of new 8" water main was installed along East Street, extending approximately 650 feet west of Whispering Meadow Lane.

Engineering designs and MassDOT permitting is complete for Phases 2 and 3 of the water main replacement project located on College Highway, extending from Clark Street to Pomeroy Meadow Road. SWD is actively working on securing funding and anticipates breaking ground for Phases 2 and 3 in the spring of 2026.

The SWD entered our water in the Massachusetts Rural Water contest for best tasting water in Massachusetts in September 2024. Our sample came in fourth place.

We remain committed to providing high-quality, safe drinking water meeting federal and state standards while being fiscally prudent and responsible. We encourage you to contact us on the information contained in this report should you have any questions.

LEAD SERVICE LINE INVENTORY

SWD is required to perform an inventory of the pipe materials for all service lines connected to the public water system. If you received a letter, we need your help! Please contact the SWD to request a free inspection. Please call 413-532-4249.

The Source

Southampton has one source of drinking water, designated by MassDEP as the Glendale Well #2. The town well is located near the intersection of Glendale Road and College Highway. This well draws water from the Barnes Aquifer, an extensive sand and gravel aquifer. The water from this well is currently chlorinated for disinfection and potassium hydroxide is added for pH adjustment in compliance with the requirements of the MassDEP. In 2024, 126,821,162 gallons were pumped from this well, which is 99.6% of the total water supplied to our consumers. The Town's water is stored in a 744,000-gallon tank located on Little Mountain, near Wolcott Road.

During periods of high-water demand, the town well is supplemented by water from the SWD of Easthampton, PWS ID No. 1087000, through a metered interconnection pump station located on Main Street in Easthampton. In 2024, the town purchased 867,187 gallons (<1%) from Easthampton Water Department as needed to supplement water from our well. Information about Easthampton's water quality is provided in their water quality report viewable on the City of Easthampton website:

<https://easthamptonma.gov/Archive.aspx?AMID=38>

The SWD is managed under the elected Board of Water Commissioners. You are welcome to attend commission meetings. The dates and locations are posted on the Town's website.

Source Water Assessment

The MassDEP conducted assessments of our drinking water sources in 2004 through the Source Water Assessment Program (SWAP). The town well is located in an aquifer with a high vulnerability to contamination due to the absence of a continuous hydrogeologic barrier that could prevent contaminant migration from the ground surface. The assessment susceptibility for the town well was reported to be high, based on the presence of at least one high-threat land use within our protective area. The SWAP report may be viewed on-line at:

<https://www.mass.gov/service-details/the-source-water-assessment-protection-swap-program>.

For more information about this report or questions related to your drinking water please contact

Brett Simmons at

413-532-4249 or

watersuper@townofsouthampton.org.

For after-hours emergencies, call the Police Dispatcher at 413-527-1124.

Water Conservation

Please work with us to conserve water! We need your help, especially in the summer when many people water their lawns and fill their swimming pools. Please use this valuable resource responsibly and be conscious of the amount of water your household uses.

- **During the summer, it is suggested to limit lawn watering to two (2) days per week and only water outside the hours of 9AM to 5PM.**
- Check every faucet in your home for leaks.
- Check your toilets for leaks by putting a few drops of food coloring in the tank or request a brochure containing dye tablets from the Water Department. If you see colored water show up in the bowl after a few minutes, your toilet is leaking. Water conservation tips can be found at: https://www3.epa.gov/region1/eco/drinkwater/water_conservation_residents.html

Substances that Could be in Water

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. Contaminants 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, and wildlife.

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

Pesticides and herbicides, 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 can also come from gas stations, urban stormwater runoff, and septic systems.

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

In order to ensure that tap water is safe to drink, the MassDEP and U.S. Environmental Protection Agency (EPA) 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 (DPH) regulations establish limits for contaminants in bottled water that must provide the same protection for public health. All 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 at: (800-426-4791).

We participated in the fifth stage of the US EPA's Unregulated Contaminant Monitoring Rule (UCMR-5) program by performing additional tests on our drinking water. This sampling benefits the environment and public health by providing the EPA with data on occurrences of contaminants suspected to be in drinking water to determine if it needs to introduce new regulatory standards. This data is free to the public by calling the Safe Drinking Water Hotline at (800-426-4791).

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 some infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control and Prevention (CDC) guidelines on lowering the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. The SWD 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: <http://www.epa.gov/safewater/lead>

Other Information

MassDEP has reduced the monitoring requirements for inorganic contaminants for 2024, because the source is not at risk of contamination. The last sample collected was taken in 2021 and was found to meet all applicable US EPA and MassDEP standards.

Water Quality Testing Results

Definitions

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 feasible using the best available treatment technology.

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.

Maximum Residual Disinfectant Level (MRDL) -- The highest level of a disinfectant (chlorine, chloramines, chlorine dioxide) 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 (chlorine, chloramines, chlorine dioxide) below which there is no known of expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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

Massachusetts Office of Research and Standards Guideline (ORSG) - This is the concentration of a chemical in drinking water at or below which adverse health effects are unlikely to occur after chronic (lifetime) exposure. If exceeded, it serves as an indicator of the potential need for further action.

Level I assessment – is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

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

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

Variations and Exemptions – State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

ppm = parts per million, or milligrams per liter (mg/l) pCi/l = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter (ug/l) ND = Not Detected

Each month, samples are collected for coliform bacteria and residual chlorine at the town well (pre and post treatment), at seven locations around the water distribution system and one at the Easthampton interconnection, when active.

Coliforms are bacteria that are naturally present in the environment and used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms on July 9, 2024, in one sample. During the past year, we were required to complete one Level I Assessment. One Level I assessment was completed and no sanitary defects were found, and no corrective actions were required. Subsequent repeat samples collected on July 11, 2024, indicated that no bacteria were present at that sample location.

The results presented in the following table(s) are from the most recent testing done in 2024, in accordance with the DEP's approved sampling plan. All results shown here were from samples collected during 2024, unless otherwise noted. Apart from those compounds noted on the tables below, all other compounds in the testing panels had undetectable levels including: Synthetic Organic Compounds (SOCs) tested on 1/9/2024, Iron and Manganese tested on 4/9/2024, Nitrite tested on 10/10/2023, Volatile Organic Compounds (VOCs) tested on 4/9/2024.

REGULATED SUBSTANCES - LEAD AND COPPER							
Substance (Unit of Measure)	Dates Collected	90 th Percentile	Action Level	MCLG	# of Sites Sampled	# of Sites above Action Level	Possible Source
Lead (ppb)	8/2024	0.0019	15	0	20	0	Corrosion of household plumbing systems, Erosion of natural deposits
Copper (ppm)	8/2024	0.69	1.3	1.3	20	0	Corrosion of household plumbing systems, Erosion of natural deposits, Leaching from wood preservatives
Tap water samples for Lead and Copper were collected from sites throughout the community during the 4 th quarters of 2024. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount 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.							

REGULATED SUBSTANCES – INORGANICS, HEAVY METALS AND DISINFECTION							
Substance (Unit of Measure)	Date Collected	Highest Monthly Average	Range Detected	MCL [MRDL]	MCLG [MRDLG]	Violation	Possible Source
Nitrate (ppm)	10/8/24	1.25	1.25	10	10	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	10/10/23	0.0278	0.0278	2.0	2.0	No	Erosion of natural deposits
Chromium (ppb)	10/10/23	1.3	1.3	100	100	No	Discharge from steel and pulp mills; Erosion of natural deposits
Chlorine (ppm)	Monthly	0.18	0 – 0.23	[4]	[4]	No	Water additive used to control microbes
Perchlorate (ppb)	7/18/23	0.092	0.092	2.0	NA	No	Rocket propellant, fireworks, munitions, flares, blasting agents
Perfluorohexanoic acid (PFHxS) (ppt)	4/9/2024 11/6/2024	----	0.58* 0.63*	20	NA	No	Used in water & stain protector and fire fighting foam
Radium 226 & 228 combined (pCi/l)	7/9/2024	<0.470	----	5	0	No	Erosion of natural deposits
Gross Alpha (pCi/l)	7/9/2024	<1.97	----	15	0	No	Erosion of natural deposits

* Results were at or below the method detection limits of the laboratory equipment.

SECONDARY AND NOT REGULATED SUBSTANCES					
Substance (Unit of Measure)	Date Collected	Result or Range Detected	Average	SMCL or ORSG	Possible Source
Sodium (ppm)	10/10/23	7.37	7.37	20	Road runoff from de-icing compounds
pH	Monthly	7.40-7.55	7.52	6.5 – 8.5	Runoff and leaching from natural deposits
Alkalinity (ppm)	Monthly	35-50	38.5	None	Runoff and leaching from natural deposits

Cross-Connection Prevention – You Can Help!

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 in the drinking water line or when the pressure in the drinking water line drops due to routine occurrences such as main breaks or heavy water demand.

Everyone must exercise care and be good stewards of our shared drinking water. Water contamination occurs easily. Houses should be protected by anti-siphon devices on their outside faucets, and backflow preventers on automatic in-ground sprinkler systems, especially those with chemical herbicide, pesticide, and fertilizer feed systems. Because of the potential danger of accidentally polluting the public water supply, the Water Department strongly recommends against the use of automatic lawn care chemical feed systems. Other ways you can help:

- **It is very important that there are no interconnections between public and private sources of water.**
- Install hose bib vacuum breakers on your outside tap before the garden hose.
- Do not allow the garden hose to become submerged in a swimming pool.
- Keep your garden hose off the ground.
- Do not connect fertilizer sprayers to your garden hose.

Help Protect Our Water System - Report Suspicious Activity

The Southampton Water Department is dedicated to ensuring that our customers are provided safe, clean and reliable drinking water. That is compromised when water is illegally taken from fire hydrants. Fire hydrants are directly connected to your drinking water supply. Our water system is vulnerable to contamination through the unauthorized use of fire hydrants from a variety of sources, including but not limited to:

- hydro-seed companies, street sweepers and swimming pool companies

Illegal and careless connections carry the risk of contaminating our water supply and can lower pressure required for fire protection. If, for example, the water pressure should drop during an illegal connection, contaminants could be sucked backwards through the hydrant and into the water supply.

Only authorized users can connect to fire hydrants, which includes: Town of Southampton Fire Department personnel, Town Water Department employees, and Town Highway Department street sweepers. Unauthorized connection to a fire hydrant is subject to a fine.

Help protect our water system. If you see illegal water use, please call the Police Department at (413) 527-1124 to report this illegal activity. Please obtain as much information, as safely as possible, regarding the incident as you can. It can be as simple as taking a picture of the event in progress or recording critical details such as the time and location. Please note vehicle type and license plate, company name/emblem on the vehicle.