

Annual Water Quality Report for 2025
Town of Salem Water Department
214 Main Street, Salem NY12865
Public Water Supply Identification Number NY5730106

INTRODUCTION

To comply with State regulations, the Town of Salem, will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. We are very pleased to provide you with this year's Annual Water Quality Report. Last year, your drinking water met all State drinking water health standards. This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to New York State standards. Our constant goal is and always has been, to provide to you a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. If you have any questions concerning this report or concerning your drinking water please contact: *Mr. Travis Keys, Chief Water Plant Operator, Town of Salem, 53 Stanton Hill Road, PO Box 575 Salem, NY 12865; Telephone (518) 328-6384.* We want our valued customers to be informed about their drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. They are held on the 2nd Wednesday of each month, 7:00 PM at the *Town Office 214 Main Street, Salem, NY 12865; Telephone (518) 854-3277.*

WHERE DOES OUR WATER COME FROM?

The Salem Water Department draws its water from ground water sources. Groundwater or well water is stored below the surface of the earth in deep, porous rocks called "aquifers." Groundwater is purified naturally as it filters through layers of soil, clay, rock and sand. This process, known as "percolation" takes years to complete. As a result, groundwater requires less treatment than surface water. The Town is served by three drilled wells located behind our DPW office at 53 Stanton Hill Road. The pumping capacity of each well is as follows: Well #1 is 157 gallons per minute (gpm), Well #2 is 82 gpm and Well #3 is 120 gpm. Well #3 is now deemed an emergency/auxiliary well. The water is chlorinated using sodium hypochlorite as it leaves the well to protect against contamination from harmful bacteria or other organisms. We add an ortho-polyphosphate corrosion inhibitor (K-8100) to alleviate problems caused by iron and manganese staining of plumbing fixtures. The water department has been testing the raw water from the Wells quarterly in an effort to measure raw water iron and manganese concentrations. More frequent determination of these concentrations will allow us to better regulate our ortho-polyphosphate corrosion inhibitor. Water is then pumped into a 300,000 gallon storage tank. The storage tank helps maintain water pressure in the distribution system as well as adequate supply for fire protection.

In general, 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 activities. Contaminants that may be present in source water include microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and EPA prescribe regulations, which limit the amount of certain contaminants in water, provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

FACTS AND FIGURES

The Salem Water Department provides water through 321 service connections to a population of approximately 915 people. Our average daily demand 52,397 gallons. Our single highest day was 186,872 gallons. In 2025 the Town pumped 19,119,135 gallons of water from our wells. The average annual charge per resident is \$300.00.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In accordance with State regulations, the Salem Water Department routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, radiological contaminants, lead and copper, nitrate, volatile organic contaminants, and synthetic organic contaminants. In addition, we test (1) sample for coliform bacteria each month. The table presented below depicts which contaminants were detected in your drinking water. The state allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily pose 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) or the New York State Department of Health Glens Falls District Office at (518) 793-3893.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table on page 3, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2025, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbiological pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

INFORMATION ON LEAD SERVICE LINE INVENTORY

The Lead and Copper Rule Revisions (LCRR) requires every federally defined community and non-transient, non-community water system to develop a service line inventory (also called a lead service line inventory (LSLI)).

A Lead Service Line (LSL) is defined as any portion of pipe that is made of lead which connects the water main to the building inlet. An LSL may be owned by the water system, owned by the property owner, or both. The inventory includes both potable and non-potable SLs within a system. In accordance with the federal Lead and Copper Rule Revisions (LCRR) our system has prepared a lead service line inventory and have made it publicly accessible.

The Town of Salem distribution system has no lead service lines, galvanized lines requiring replacement, or lead status unknown service lines. The inventory is viewable at the following website:

https://www.health.ny.gov/environmental/water/drinking/service_line/NY5730106.htm

INFORMATION ON LEAD

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is *primarily from materials and parts used in service lines and in home plumbing*. The Town of Salem is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, Darren S. Mackey (518) 642-1815 or scottmvog@yahoo.com. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

WHAT IS THE SOURCE WATER ASSESSMENT PROGRAM (SWAP)?

To emphasize the protection of surface and ground water sources used for public drinking water, Congress amended the Safe Drinking Water Act (SDWA) in 1996. The amendments require that New York State Department of Health's Bureau of Public Water Supply Protection is responsible for ensuring that source water assessments are completed for all of New York's public water systems. A Source Water Assessment was not required for this system since it did not exist prior to 2003.

CAPITAL IMPROVEMENTS

- ◆ There were no major capital improvements in 2025.

WATER CONSERVATION TIPS

The Salem Water Department encourages water conservation. There are a lot of things you can do to conserve water in your own home. Conservation tips include:

- ◆ Only run the dishwasher and clothes washer when there is a full load
- ◆ Use water saving showerheads
- ◆ Install faucet aerators in the kitchen and the bathroom to reduce the flow from 4 to 2.5 gallons per minute
- ◆ Water gardens and lawn for only a couple of hours after sunset
- ◆ Check faucets, pipes and toilets for leaks and repair all leaks promptly
- ◆ Take shorter showers

CLOSING

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. We ask that all our customers help us protect our water sources. Please call our office if you have questions.

| SALEM WATER DEPARTMENT TABLE OF DETECTED CONTAMINANTS | | | | | | | |
|---|------------------|---|---|------------------|-------|-----------------------------------|---|
| Public Water Supply Identification Number NY5730106 | | | | | | | |
| Contaminant | Violation Yes/No | Date of Sample | Level Detected | Unit Measurement | MCLG | Regulatory Limit (MCL, TT or AL) | Likely source of Contamination |
| Inorganic Contaminants | | | | | | | |
| Barium | N | 7/11/23 | 0.128 | mg/l | 2 | MCL=2 | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chloride | N | 7/8/25 | 16.6 | mg/l | N/A | MCL=250 | Naturally occurring or indicative of road salt contamination. |
| Chromium | N | 7/11/23 | 2.1 | µg/l | 100 | MCL=100 | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Copper (Range of copper concentration) | N | 7/17/24 | 0.356 ¹ (0.011-0.392) | mg/l | 1.3 | AL=1.3 | Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives. |
| Iron | N | 3/4/25 6/18/25 7/8/25 9/18/25 12/9/25 | 71.6 68.3 56.3 ND ND AVG=39.24 | µg/L | N/A | MCL=300 | Naturally occurring. |
| Manganese | N | 3/4/25 6/18/25 7/8/25 9/18/25 12/9/25 | 93.0 66.6 57.9 49.9 68.2 AVG=67.12 | µg/l | N/A | MCL=300 | Naturally occurring; Indicative of landfill contamination. |
| Nickel | N | 7/11/23 | 1.6 | µg/l | N/A | N/A | Erosion of natural deposits. |
| Nitrate Well#1 | N | 7/8/25 | 0.078 | mg/l | 10 | MCL=10 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Nitrate Well#2 | N | 7/8/25 | 0.848 | | | | |
| Nitrate Well#3 | N | 7/8/25 | 0.577 | | | | |
| Sodium ² | N | 7/8/25 | 11.5 | mg/l | N/A | (See Health Effects) ² | Naturally occurring; Road salt; Water softeners; Animal waste |
| Sulfate | N | 7/8/25 | 29.2 | mg/l | N/A | MCL=250 | Naturally occurring. |
| Zinc | N | 7/8/25 | 0.00751 | mg/l | N/A | MCL=5 | Naturally occurring; Mining waste. |
| Disinfection Byproducts | | | | | | | |
| Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid) | N | 7/8/25 | 10.63 | µg/l | N/A | MCL=60 | By-product of drinking water disinfection needed to kill harmful organisms. |
| Total Trihalomethanes (TTHMs – chloroform, bromodichloromethane, dibromochloromethane, and bromoform) | N | 7/8/25 | 14.0 | µg/l | N/A | MCL=80 | By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains organic matter. |
| Chlorine Residual (average) [range] | N | Daily | (1.46) [0.51-2.03] | mg/l | MRDLG | MRDL | Water additive used to control microbes. |
| | | | | | N/A | MCL=4 | |

Notes:

1. The level presented represents the 90th percentile of the 20 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value was the sample with the second highest value (level detected 0.356 mg/l). The action level for copper was not exceeded at any of the sites tested.
2. Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (µg/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

90th Percentile Value- The values reported for lead and copper represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system

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

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

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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 - The "Goal" (MCLG) is 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 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 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.

Locational Running Average (LRA): The LRA is calculated by taking the average of the four most recent samples collected at each individual site.

N/A-not applicable