

***Annual Drinking Water Quality Report for 2023***  
**South Albany Water District**  
 445 Delaware Avenue, Delmar, NY 12054  
 Public Water Supply Identification Number NY0100193

**INTRODUCTION**

To comply with State regulations, The Town of Bethlehem Department of Public Works issues an annual 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. Last year, we conducted tests for over 80 contaminants and found that the water in the South Albany system met all drinking water standards. This report provides an overview 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.

If you have any questions concerning this report or concerning your drinking water please contact: Mr. Paul Penman, Commissioner of Public Works; 445 Delaware Ave. Delmar, NY 12054; Telephone (518) 439-4955, or e-mail [PPenman@townofbethlehem.org](mailto:PPenman@townofbethlehem.org). We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled town board meetings. The meetings are held on the 2nd and 4th Wednesday of each month. If you are unable to attend the meetings, we encourage you to contact the DPW offices directly.

**WHERE DOES OUR WATER COME FROM?**

The South Albany WD draws its water from a ground water source. The District is served by one drilled well. The well is 311 feet deep. 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. We pump this groundwater out through our well. The pumping capacity for the well is approximately 15 gallons per minute. Chlorine tablets are used to add a disinfectant to the water in order to protect against contamination from harmful bacteria and other organisms. The water is pumped to a 10,000 gallon storage tank to meet consumer demand.

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 Water District provides water through 24 service connections to a population of approximately 125 people. Our average daily demand is 2,077 gallons. Our single highest day was 8,035 gallons. The total water produced in 2023 was 758,098 gallons. In 2023, there was approximately 16.8% unaccounted for water loss in the South Albany Water District. These losses are attributed to firefighting, flushing of the water distribution system, errors in water meters and water lost due to leaks.

The charge for water in 2023 was as follows:

<b>Water Usage Tiers</b>	<b>Price per CCF<sup>1</sup></b>	<b>Equivalent Price per 1,000 Gallons</b>
Up to 500 CF <sup>2</sup>	\$2.31	\$3.06
501 CF to 5,000 CF	\$4.82	\$6.39
5,001 CF to 50,000 CF	\$5.13	\$6.81
50,001 CF to 500,000 CF	\$4.16	\$5.52
500,001 CF and over	\$3.86	\$5.12

1: CCF = hundred cubic feet

2: CF = cubic feet (1 cubic foot = 7.48 gallons of water)

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

In accordance with State regulations, the South Albany WD 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 4 samples 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 and is noted.

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 Albany County Health Department at (518) 447-4620.

**WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table on page 4, our system had no violations. We have learned through our monitoring and testing that some contaminants have been detected; however, these compounds were detected below New York State requirements. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

**IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?**

During 2023, 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**

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 South Albany WD 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>

**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 provides information on the potential contaminant threats to public drinking water sources:

- ◆ each source water assessment will: determine where water used for public drinking water comes from (delineate the source areas)
- ◆ Inventory potential sources of contamination that may impact public drinking water sources
- ◆ Assess the likelihood of a source water area becoming potential contaminated

A SWAP summary for our water supply is attached to this report.

**WATER CONSERVATION TIPS**

The South Albany WD 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
- ◆ Consider using a private contractor to fill a swimming pool instead of putting that stress onto the public water system

**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.

SOUTH ALBANY WD TABLE OF DETECTED CONTAMINANTS							
Public Water Supply Identification Number NY0100193							
Contaminant	Violation Y/N	Date of Sample	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Barium	N	7/30/19	211	µg/l	2000	MCL=2000	Erosion of natural deposits
Chloride	N	7/30/19	41.2	mg/l	N/A	MCL=250	Naturally occurring or indicative of road salt contamination.
Color	N	7/30/19	2	units	N/A	MCL=15	Natural sources
Copper Range of values	N	7/19/21- 8/25/21	0.139 <sup>1</sup> 0.046-0.18	mg/l	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	N	7/30/19	840	µg/l	N/A	MCL=2200	Erosion of natural deposits; water additive which promotes strong teeth
Iron	N	7/30/19	115	µg/l	N/A	MCL=300	Geology; Naturally occurring
Lead Range of values	N	7/19/21- 8/25/21	2.2 <sup>2</sup> ND-2.78	µg/l	0	15	Corrosion of household plumbing systems, erosion of natural deposits
Manganese	N	7/30/19	22.2	µg/l	N/A	300	Geology; Naturally occurring
Odor	N	7/30/19	1	units	N/A	3	Organic or inorganic pollutants originating from municipal and industrial waste discharges: natural sources
pH	N	7/30/19	8.13	units	N/A	6.5-8.5	
Sodium	N	7/30/19	107 <sup>3</sup>	mg/l	N/A	N/A	Naturally occurring; Road salt; Water softeners; Animal waste
<b>Radiological Parameters</b>							
Radium 226	N	7/30/19	1.08	pCi/L	0	MCL=5 <sup>4</sup>	Erosion of natural deposits
Radium 228	N	7/30/19	0.73	pCi/L	0	MCL=5 <sup>4</sup>	Erosion of natural deposits
<b>Microbiological Contaminants</b>							
Total Coliform Bacteria	N	8/29/23	1 positive sample <sup>5</sup>	N/A	0	TT=2	Naturally present in the environment.
<b>Disinfection Byproducts (sample from)</b>							
Haloacetic Acids [HAA5]	N	8/31/23	2.69	µg/l	N/A	MCL=60	By-product of drinking water disinfection
Total Trihalomethanes [TTHM]	N	8/31/23	8.41	µg/l	N/A	MCL=80	By-product of drinking water chlorination
Chlorine (average) based on daily testing Range of values	N	Daily testing	1.41 0.62-2.30	mg/l	MRDL G N/A	MRDL MCL=4	Used in the treatment and disinfection of drinking water

**Notes:**

1. During 2021 we collected and analyzed 5 samples for copper. The level included in the table represents the average of the two highest levels detected. The action level for copper was not exceeded at any of the sites tested.
2. During 2021 we collected and analyzed 5 samples for lead. The level included in the table represents the average of the two highest levels detected. The action level for lead was not exceeded at any of the sites tested.
3. Water containing more than 20 mg/l should not be consumed by persons 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.
4. Maximum Contaminant Level is combined Radium 226 & Radium 228.
5. Three resamples collected on 8/30/23 were determined to be Total Coliform negative.

*Non-Detects (ND)* - laboratory analysis indicates that the contaminant 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* - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

*90<sup>th</sup> Percentile Value*- The values reported for lead and copper represent the 90<sup>th</sup> 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 90<sup>th</sup> percentile is equal to or greater than 90% of the lead and copper values detected at your water system

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

*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

*N/A-Not applicable*

**South Albany Water District**  
NY0100193  
**Source Water Assessment Summary**

The NYS DOH has completed a Source Water Assessment for the South Albany water district, based on available information. Possible and actual contaminant threats to your well were evaluated. The assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the well. The susceptibility rating is an estimate of the potential for contamination. It does not mean that the water delivered to your home is or will become unsafe to drink. See section “Are there contaminants in our drinking water?” of this report, for information concerning low levels of contaminants in your water.

The sensitivity of an aquifer is based on the geology, which influences how rapidly groundwater moves and how quickly a contaminant could reach a well. South Albany’s aquifer has been given a sensitivity of Unknown (rating between medium and high). The potential impact of a chemical or microbe on a well (susceptibility) is based on the aquifer’s sensitivity, proximity of a potential contaminant source and chemical or biological characteristics of the contaminant.

The assessment has determined that South Albany’s well is susceptible to nitrates, enteric bacteria and enteric viruses. The potential sources of these contaminants are the septic systems in the area. Nitrates are routinely tested for and have not been found in the well’s water. Any microbes, such as bacteria and viruses that may reach the well would be eliminated by the disinfection of the water supply.

The assessment has determined that chemicals, including petroleum products, stored in the area have a very low possibility of reaching this well. This is due to the geology, and distance of the stored chemicals from the well.

A copy of the full Source Water Assessment, including a map of the assessment area, is available for review by contacting us at the number provided in this report.