

TOWN OF NEW SCOTLAND PUBLIC WATER SUPPLY

2021 ANNUAL WATER QUALITY REPORT

(Based on data compiled in 2021 or prior)

CLARKSVILLE WATER DISTRICT

PWS ID # 0130000

We are pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we delivered to you the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water.

Source of Water

Your water comes from 2 wells located on Winne Lane in Feura Bush. Raw water is pumped from the wells through the pump house where it is filtered and chlorinated then pumped to a 200,000-gallon storage tank located on Stove Pipe Rd. in the hamlet of Clarksville. An average of 31,294 gallons of water is pumped each day to 206 households.

Water Quality

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of 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 (1-800-426-4791).

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 microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791)

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 animal 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.

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, inorganic compounds, nitrate, nitrite, lead and copper volatile organic compounds, total trihalomethanes, and synthetic organic compounds. None of the compounds we analyzed for were detected above the MCL in your drinking water.

Table of Detected Contaminants

Contaminant	Date	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely source of Contaminant
Hardness as CaCO ₃ , Total ³	8/12	N	254	mg/L		N	Naturally occurring
Sulfate		N	55	mg/L	N/A	250.0	Naturally occurring
Lead ¹	9/18	N	.005	mg/L	<0.001 – 0.015	.015	Corrosion of household plumbing; Erosion of natural deposits.
Copper ²	9/18	N	.17	mg/L	1.3	1.3	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 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 with their personal doctors.
Iron		N	.05	mg/L	<0.05–0.30		Naturally occurring
Trihalomethanes (Total)	6/20	N	6.1	ug/L	0 - 80	80	By-product of drinking water chlorination.
Haloacetic Acid (Total)	6/20	N	<6.0	ug/L	0 - 60	60	By-product of drinking water chlorination
Nitrate	10/21	N	13.0	Mg/l		<0.2-10.00	See explanation below

¹ - The level presented represents the 90th percentile of the 5 samples collected. The action level for lead was exceeded at only one of the 5 sites tested. 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 could develop kidney problems or high blood pressure. It is possible that lead levels at your home may be higher than at other homes in the community as a result of the materials used in your homes plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested on your own by a local company. Flushing your tap for 30 seconds to 2 minutes before using the water might also help in lessening the amount of lead. Additional information is available from the Safe Drinking Water Hotline (800-426-4791)

² - 5 samples were collected at your water system and this represents the 90th percentile value. The action level for copper was not exceeded at any of the sites tested.

³ - There are no specific levels set for hardness since excessive levels do not render the water unfit for consumption. However, when the level reaches the 120 mg/l, problems with scale deposition on pipes and utensils and in hot water tanks increases. Water softening is an option if mineral scale deposits are noticeable and/or bothersome.

Nitrate naturally occurs in a number of foods, particularly vegetables. It is also used as preservatives in meats such as bacon. Nitrate is also used to make lawn, garden and agricultural fertilizers and is found in sewage and wastes from farm animals. It generally gets into drinking water by run off into surface water or by leaching into ground water after application or after improper sewage or animal waste disposal. Levels of nitrate in drinking water can vary throughout the year.

Infants are particularly sensitive to nitrate. High levels of nitrate in drinking water have caused serious illness and sometimes death in infants less than six months of age. The serious illness occurs because nitrate is converted to nitrite in the body and nitrite reduces the ability of the infant's blood to carry oxygen. Symptoms of the illness can develop rapidly and include shortness of breath and blueness of the skin (blue baby condition). Exposure to nitrate in drinking water at levels above 10 milligrams per liter (10 mg/L) increases the risk of developing the illness. Because the effects of nitrate and nitrite are additive, water containing more than 10 mg/L of total nitrate/nitrite should not be used to prepare infant formula or other beverages for infants. Although older children and adults are generally less sensitive than infants to the effects of nitrate, those who have certain gastrointestinal disorders (for example, achlorhydria or atrophic gastritis) that substantially reduce stomach acid and favor the production of nitrite from nitrate may have a greater risk for illness than the general population.

We routinely monitor for nitrate in our water supply beyond what is required by the New York State Health Department. In the event of the detection of higher nitrate readings we have a contingency plan in place to maintain a safe level of nitrate. By using interceptor wells, high nitrate water is drawn away from the production wells, which enables us to deliver water well below the levels prescribed by the EPA. (>10 mg/L).

On November 1, 2021, we received notice that the sample collected on October 27, 2021 showed nitrate levels of 13.0 mg/L. This is above the maximum contaminant level (MCL), of 10 mg/L. Nitrate in drinking water is a serious health concern for infants less than six months old. Notices were hand delivered to residents as well as notification sent through email and social media platforms.

What should I do? What does this mean?

- **DO NOT GIVE THE WATER TO INFANTS.** **Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.* * Blue baby syndrome is indicated by blueness of the skin. Symptoms in infants can develop rapidly, with health deteriorating over a period of days. If symptoms occur, seek medical attention immediately.
- Water, juice, and formula for children under six months of age should not be prepared with tap water. Bottled water or other water low in nitrates should be used for infants until further notice.
- **DO NOT BOIL THE WATER.** Boiling, freezing, filtering, or letting water stand does not reduce the nitrate level. Excessive boiling can make the nitrates more concentrated, because nitrates remain behind when the water evaporates.
- Adults and children older than six months can drink the tap water (nitrate is a concern for infants because they can't process nitrates in the same way adults can). However, if you are pregnant or have specific health concerns, you may wish to consult your doctor.

What has been done to correct the issue?

A plan of corrective action was established as per 5-1.12 of the New York State Codes, Rules, and Regulations and was successful in lowering the Nitrate level to 5.8 mg/L.

- (a) Whenever the supplier of water determines or is advised by the State that one or more of the MCLs set forth in this Subpart are or may be exceeded; or that effectiveness of treatment processes diminishes to the extent that a violation of the treatment techniques or MCLs set forth in this Subpart may occur; or that any deleterious changes in raw water quality have occurred; or that a change in the character of the watershed or aquifer has been observed which may affect water quality; or that any combination of the preceding exists, the supplier of water shall notify the State and do the following:
- undertake a study to determine the cause or causes of such conditions, independent of known or anticipated treatment technology;
 - modify existing or install treatment to comply, to the extent practicable, with sections 5-1.30, 5-1.50, 5-1.51 and 5-1.60 of this Subpart;
 - initiate water sampling as needed to delineate the extent and nature of the cause of concern;
 - investigate all or part of the watershed or aquifer to verify any existing or potential changes in the character of the sources of water supply;
 - and submit a written report to the State within 30 days of the onset of the foregoing conditions summarizing the findings outlined in paragraphs (1) through (4) of this subdivision.

Source Protection Plan

The Town of New Scotland in the interest of preserving our water resources has established a source protection plan. The purpose of this plan is to eliminate contamination in the vicinity of our wellheads. For more information on this plan you may call the Dept. of Public Works office at (518)439-0938.

Cryptosporidiosis and Giardiasis

New York State law requires water suppliers to notify their customers about the risks of cryptosporidiosis and giardiasis. These are intestinal illnesses caused by microscopic parasites. Cryptosporidiosis can be very serious for people with weakened immune systems, such as chemotherapy, dialysis or transplant patients, and people with Crohn's disease or HIV infection.

People with weakened immune systems should discuss with their health care providers the need to take extra precautions such as boiling water, using certified bottled water or a specially approved home filter. The Town of New Scotland Public Water Supply is a closed system and has a minimal risk of cryptosporidium and giardia being present.

Water Conservation

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons to conserve water:

- Saving water saves energy and some of the costs associated with both these necessities of life;
- Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water restrictions.
- 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.

Conservation 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 or shaving.
- Check every faucet in your home for leaks. Just a slow drip can waste 15-20 gallons a day. Fix it up and you could save almost 6000 gallons per year.
- **Check your toilets** for leaks by shutting of the water supply line valve located below the tank, wait 20-30 minutes and turn the valve back on; if water starts to flow to fill the tank then you probably have a leak. **It is not uncommon to lose up to 100 gallons a day** from one of those otherwise invisible toilet leaks. Fix it and you could save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks while you're away from home. Simply turn off all taps and water using appliances (dishwashers, washing machines, lawn sprinklers, etc.) then before you leave the house record the number on the water meter, when you return home and before you use any water re-read the water meter, if the number has changed you may have a leak. If you have a newer cellular style meter installed within the last 2 few years you may be able to use an APP to access and profile your water consumption. Contact this office for more details.
- Use low flow showerheads.
- Water your lawn (**only when needed**) in early morning or late evening to avoid evaporating.
- **Before** using lawn-sprinklers find out how many gallons of water they use each minute of operation (gpm) then multiple that number by the amount of time the sprinkler is on, this will give you an idea of just how much you're applying to your lawn. (Example: If you have a sprinkler head that uses (2 gpm x 30 min) = 60 gallons x (6 sprinkler heads) = 360gallons x (5 days a week) = 1800 gallons each week. If you did this for four months (May, June, July and August) you would be using approximately 30,600 gallons of water.
- Don't cut your lawn too short. Longer grass saves water.
- Wash your car with a bucket and a hose with a nozzle.

A few simple steps will preserve the resource for future generations and also save up to 30% on your water bill.

Additional Information

Water main flushing is done annually in the spring; exact dates for your district are published on our web site @ www.townofnewscotland.com one to two weeks prior to flushing.

Radio-read water meters are installed in each home or business, these save time and resources by having our employees read your meter from the roadway with the use of a laptop computer and radio receiver which then can be directly loaded into the billing system. These meters have leak detection and tamper controls built in so that we can alert you of possible leaks in your home and to ensure that all water is properly metered which saves you and the district money. Should we detect a problem we will contact you to schedule an appointment to correct the issue. Newer cellular style meters allow you the customer to see possible leaks by the use of an APP on your phone. Contact this office for further information.

If anyone comes to your door representing themselves as a water department employee ask to see their Town of New Scotland ID card. If they cannot produce one do not let them in and contact the local authorities right away.

The Town of New Scotland Water Committee currently meets the 3rd Wednesday of the month at the Town Hall at 6:00 pm; or via Zoom. You can visit our web site @ www.townofnewscotland.com or call the Town Hall at (518)439-4865 for a current meeting schedule or Zoom information. The meeting is open to public participation to ask any questions or express any concerns and comments you may have about your water system.

Definitions

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water.

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 margin of safety.

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

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million – ppm)

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion – ppb)

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 or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

Not Applicable:(N/A)

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 the control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Summary

The New Scotland Water Department takes pride in providing our customers with a quality source of drinking water. Everyone should take a role in protecting and conserving our water resources.

If you have any questions concerning your water supply and or billing please contact us at (518)439-0938 Monday through Friday 8:30 am to 3:30 pm Questions about your Water Quality Report should be directed to William West, Commissioner of Public Works.

Should you have any other question concerning your water quality that our department cannot answer, you can contact the ***Albany County Health Department at (518)447-4620 (general information)***

The Town of New Scotland is an equal opportunity provider and employer. Discrimination is prohibited by Federal law. Complaints of discrimination may be filed with USDA, Director, Office of Civil Rights Room 326-W, Whitten Building, 14th and Independence Ave., SW, Washington, DC 20250-9410