



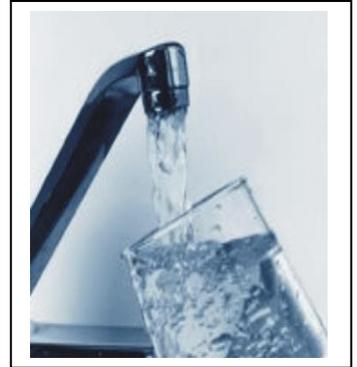
Tilton & Northfield Aqueduct Co., Inc.

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PWS ID# 2351010

2022 Water Quality Report

Since 1999 all Public Water Systems have been required to provide an annual water quality report to their customers. This report must detail the quality of your drinking water, where it comes from, and where you can get more information. It must list all regulated drinking water contaminants found in your water and compare them to standard limits.

Like any responsible public water system, our mission is to provide the highest quality of water possible. An aging infrastructure presents challenges to drinking water safety and continuous improvement is needed to maintain the quality of life we desire for today and for the future.



In order to accomplish this, we have begun the design process of a new filtration plan at our well sites on Route 140 in Northfield. We have an expected completion date in 2023. We are also moving forward this year with a new radio read meter system to help streamline the meter reading and billing processes. This will allow us to track leaks as they are happening, for both the District and the end user, rather than waiting until the bill is generated to find out you may have a leak. **We will need your help with this by providing us with your most current contact numbers as this will allow for water usage notifications and alerts, along with access to your premises for these upgrades.**

As this shows, there is much happening behind the scenes to provide you with high quality water. These investments along with on-going operation and maintenance costs are supported by the rates we charge. When considering the high value we place on water, it is truly a bargain to have water service that protects public health, provides fire protection, supports businesses and the economy, and provides us with the high-quality of life we enjoy.

[How Can I Get Involved](#)

For information about your drinking water, please call the Tilton & Northfield Aqueduct Co., Inc. at 603-286-4213 and watch our website t-nwaterdistrict.com for any updates. Commissioner's meetings are usually the 2nd Monday of the month 4 pm at 14 Academy Street. Meeting agendas are posted in Tilton and Northfield. The annual meeting is held the second Tuesday in April, at 6:00 pm and is posted in the Towns and published in the paper. Meeting information is also available on our website.

[Do I need to take special precautions?](#)

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 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 (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

[Why are contaminants in my water?](#)

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 Environment Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

[Source Water Assessment Summary](#)

New Hampshire Department of Environmental Services (NHDES) prepared drinking water source assessment reports for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the State's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources and a summary of available protection options.

Source Water Assessment Summary Continued

The Tilton-Northfield Water District has two (2) gravel packed wells located in Northfield and had a Source Water Assessment conducted by the New Hampshire Department of Environmental Services 01/16/2001 and the results of the assessment prepared on 01/16/2001 are noted below. The complete Assessment Report is available for review at 14 Academy Street, Tilton. For more information call the Tilton-Northfield Water District at 603-286-4213 or visit the DES Drinking Water Source Assessment website at <https://des.nh.gov/resource-center/publications?keys=crc&purpose=&subcategory=drinking+water>.

The Source Water Assessment summary shows source 2351010-003 GPW had 2 HIGHS: (1) the source is within 1,000 ft. of highway and (2) the agricultural land cover over the aquifer is over 10%. On source 2351010-004 GPW there were 3 HIGHS: (1) the source is within 1,000 feet of highway and (2) the agricultural land cover over the aquifer is over 10% and (3) there are 10 or more septic systems and/or any sewer lines within 500 ft. of the well head protection area (WHPA) or there is a high density of septic systems (more than 30) in the WHPA. We also had one moderate ranking for each well that indicates there is at least 1 registered pesticide applicator in the WHPA but not within 500 Ft. of wellheads. All other assessments were considered LOW.

Note: This information is 20 years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

Description of drinking water contaminants:

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.

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 storm water 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 storm water runoff, and residential uses.

Organic chemical contaminants, including per- and polyfluoroalkyl substances, synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The US Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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. This water system is responsible for high quality drinking water but cannot control the variety of materials used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water from your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and 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 <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.

Important Drinking Water Definitions

Term	Definition
AGQS	AGQS Ambient Groundwater Quality Standard. The maximum concentration levels for contaminants in groundwater that are established under RSA 485-C, the Groundwater Protection Act.
AL	AL Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
MCLG	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.
MCL	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.
Variations and Exemptions	Variations and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

MRDLG	MRDLG: Maximum residual disinfection 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.
MRDL	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.

Unit Descriptions

Term	Definition
ppm or mg/L or ug/L	ppm: parts per million, or milligrams per liter (mg/L), or micrograms per liter (ug/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
ND	ND: Not detected

Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG	MCL,	Your		Sample	Violation	Typical Source
	or	TT, or	Water	Well #2			
	MRDLG	MRDL	Well #1	Well #2	Date		
Microbiological Contaminants							
Total Coliform Bacteria	(negative)		No Positive Samples for 2021			No	Naturally present in the environment.
Inorganic Contaminants (Measured as mg/L)			Well #1	Well #2			
Barium	2	2	0.0095	0.0090	2021	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Hardness			47.6	42.4	2021	No	Erosion of naturally deposited minerals. Water from both wells would fall into the soft water classification.
Sulfate			9.9	5.9	2021	No	Naturally Occurring
Nitrate [Nitrogen]	10	10	0.48	0.15	2021	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Copper		1.3	.0063	ND	2021	No	Erosion of natural deposits; Leaching from wood preservatives
Sodium		250	19.4	28.8	2021	No	Erosion of natural deposits; Leaching.
Iron		0.3	.367	.658	2021	No	Erosion of naturally deposited minerals.
Manganese		0.05	.2026	.4933	2021	No	Erosion of naturally deposited minerals.
Per- and Polyflouraikyl Substances			Well #1	Well #2			
PFHXS		2.01	ND	ND	2021	No	By-products of industrial processes and petroleum production.
PFNA		2.01	ND	ND	2021	No	
PFOS		2.01	ND	ND	2021	No	
PFOA		2.01	ND	ND	2021	No	
Radioactive Contaminants			Well #1	Well #2			
Radium (combined) 226/228) (pCi/L)	0	5	.01	.03	2015	No	Erosion of naturally deposited minerals.
Disinfection By Products			Site #323	Site #322			
Total Trihalomethanes		80	7.8 ug/L	4.8 ug/L	2021	No	Byproduct of drinking water disinfection with chlorine.
Total Haloacetic Acids		60	ND	ND	2021	No	
Contaminants	MCLG	AL	90 th Percentile	Sam Date	# Samples Exceeding AL	Violation	Typical Source
Copper-action level at consumer taps (ppm)	1.3	1.3	0.26	2021	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.
Lead - action level at consumer taps (ppb)	0	15	1	2021	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.

Violations and Other Information: See violation list in table below

Violation Description	Contaminant or Rule	Begin Date	Return to Compliance	Explanation
Lead Consumer Notice	Lead and Copper Rule	12/30/2021	1/20/2022	Late in submitting.

Regarding Tilton-Northfield Water District, all testing results are well within the parameters for safe/quality drinking water in the State of New Hampshire as reflected in the updated tables above.

In 2021, the Tilton-Northfield Water District had to shift gears from replacing aging infrastructures to focus on a new Filtration Treatment Plant at the current well sites. The District was informed by New Hampshire Department of Environmental Services that the United States Environmental Protection Agency will be imposing new compliance regulation rule changes effective July 1, 2022. This will be a large financial impact to the Water District with an estimated cost of 6.5 million dollars.

The District has also started the implementation of a new cellular radio meter read and billing software upgrade. As this new system and smart meters are installed and activated at each location, the customers will have the opportunity to sign up to the online portal. They will be able to look at their daily water usage and receive alerts for leaks plus much more.

The Water District had to spend a lot of time and resources to try and collect unpaid balances from the Tilton-Northfield Fire District as they voted at their 2021 Annual District Meeting not to pay for the cost of fire hydrant rentals throughout Tilton and Northfield, along with the fire truck water filling service lines supplied by the Water District at each of its fire stations. The Water District and Fire District know how important these services are to the communities. The ISO Community Hazard Mitigation Representative was in town in 2021 to complete their routine surveys for communities that have public fire protection to assure proper property insurance premium calculations. The Representative stated that without the Water Districts infrastructure plus available hydrants the ISO rating would not be where it is today. The Fire District has a very good rating of 3, with 1 being the best and 10 being the worst. It was indicated that there are very few 1 ratings in the country so a rating of 3 for the communities is very good. Without hydrants on the public side the rating would be an 8 and insurance premiums would increase substantially.

The Water District has always tried to work with all public and private entities with public safety in mind at all times. Water quality and quantity is of the utmost importance to having a safe and reliable precious resource as well as fire protection for the whole community. Not only for the School District, restaurants, businesses, homes, and hotels but also the areas outside of the Water District that the Fire District serves. Good clean water and fire protection for all is a top priority for our communities to grow and thrive . We cannot do it without the water. The Tilton-Northfield Water District thanks the whole communities of both Tilton and Northfield for their support in keeping and preserving the precious commodity of clean water and fire protection we all need now for the future and the generations to come. So please get out and vote at your respective town and Fire District Annual meetings in March and let your Selectman and Fire Commissioners know that you support safe, clean water and fire protection for everyone and to encourage good open working relations with everyone in the communities of Tilton and Northfield.

John P. Chase, Superintendent

Commissioners:

Sean T. Chandler/Chairman

Arthur N. Demass

For more information regarding your Water District, please note that the public meetings are regularly scheduled monthly at the TNAC office. All meeting times and dates are posted at least 72 hours before the meeting at Tilton Town Hall, Northfield Town Hall and in the front window of the TNAC office (14 Academy St.). Please feel free to call the office 286-4213 if you would like to be informed of the next meeting.

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**Superintendent: John Chase
Water Works Operator - Treatment Grade I
Water Works Operator - Distribution Grade II**

**Field Foreman/Water Operator: Doug McPhail II
Water Works Operator - Treatment Grade I
Water Works Operator - Distribution Grade II**

* For after-hours emergencies please call (603) 286-4213, then select option 2. Your call will be forwarded to one of our on-call Water Works personnel directly. For after-hours payments please use the mail slot at 14 Academy Street.