

## About 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 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 United States Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

## 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/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

## Lead Information

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. Franconia Village Water 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 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 (1-800-426-4791). You may also visit the EPA website located at: <http://water.epa.gov/water/drinking-water/lead-drinking-water>.

## Are all Contaminants Harmful?

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 US Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

## How do I get Involved?

For more information about your drinking water, please call the system's owner representative, Franconia Water Department Rachel Pluchino (603) 823-7752. You may also contact the primary water operator, Justin Benes at (603) 476-2348 or Tom Mason (603)476-5378 (Mon-Fri, 9am to 5pm) or (603) 476-2348 (Sat & Sun). Although we do not have specific dates for public participation events or meetings, feel free to contact us with any questions.

## Source Assessment Information

Franconia Village Water		Susceptibility Factor Ratings		
Source Name	Date	Low	Med	High
Bedrock Well #1	11/7/02	9	1	2
Spring Well #2	11/7/02	8	1	3
Bedrock Well #3	11/7/02	9	2	1
Spring Well #4	11/7/02	9	2	1
Bedrock Well #5	11/7/02	9	1	2

The DES prepared such reports for all public water systems from 2000-2003 in an effort to assess the vulnerability of the state's public water supply sources. The information above is 10+ 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, the DES has no plans to update this data. The complete report is available for review upon request. For more information, contact Meaghan Caron at (603) 823-7752 Justin Benes at 603-476-2348 or visit the NHDES' website: <http://des.nh.gov/organization/divisions/water/dwqb/dwssp/dwsap.htm>

# 2022 Consumer Confidence Report



*Franconia Village Water  
in Franconia, NH  
EPA ID# 0841010*

**If you have questions about this report, please contact:**

**LRW Water Services Inc.**

PO Box 309, Moultonboro, NH 03254

Mon – Fri, 9am – 5pm: 603-476-5378

Sat/Sun: 603-476-2348

LrwH2oserv@yahoo.com

## **What is a Consumer Confidence Report?**

The consumer confidence Report (CCR) details the quality of your drinking water, where it comes from, and where you can get more information. This annual report documents only detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs). The enclosed sampling results are from the most recent monitoring done in compliance with state/federal regulations through 2021. Results prior to 2021 will include the date the sample was taken. The State of New Hampshire allows water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Thus some of the data present, though representative, may be more than one year old. Lab results may be viewed on the NHDES website located at: <http://www2.des.state.nh.us/DESOnestop/BasicSearch.aspx>. Enter the EPA ID listed on the front cover of this report, click Enter, and then click on the "Public Water System" link to get started.

## **Where Does My Water Come From?**

Franconia Village Water owns 3 active bedrock wells (BRW) and 2 active spring wells, all of which are within a 300 foot radius of the pump house. The Howe BRW yields 30 gallons per minute (gpm), the Magowan BRW yields 70 gpm, and the Gale BRW yields 50 gpm. These wells along with the spring wells supply a new reservoir which holds approximately 300,000 gallons.

### **Definitions:**

1. **MCLG** (Maximum Contaminant Level Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. (This allows for a margin of safety.)

**MCL** (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. They are set as close to the MCLGs as feasible using the best available treatment technology.

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

### **Abbreviations:**

**ppm**: parts per million

**pCi/L**: pico curies per liter

**ppb**: parts per billion ( $\mu\text{g/L}$ )

**$\mu\text{g/L}$** : micrograms per liter **ND**: not detectable at testing limits **N/A**: Not Applicable

## DETECTED WATER QUALITY RESULTS

Contaminant (Units)	Level Detected	MCL	MCLG	Violation Yes/No	Likely Source of Contamination	Health Effects (Env-DW 811.21)
<b>Radiological Contaminants</b>						
Combined Radium 226+228 (pCi/L)	4.4 10/16/2019	5	0	NO	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
Compliance Goss Alpha (pCi/L)	4.5 10/16/2019	15	0	NO	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Uranium (µg/L)	0.11 10/16/2019	30	0	NO	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.
<b>Inorganic Contaminants</b>						
Barium (ppm)	0.016 08/20/2019	2	2	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
Chlorine (ppm)	Range: 0.4 – 1 Average: 0.67 2020	MRDL=4	MRDLG=4	NO	Water additive used to control microbes	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Lead (ppb)	90 <sup>th</sup> Percentile calculated by NHDES: 0.0003 on 1/01/2019  NO customer distribution sites exceeded the AL of 15.0.	AL=15	0	NO	Corrosion of household plumbing systems, erosion of natural deposits	Infants & 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 & learning abilities. Adults who drink this water over many years 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 materials used in your home's plumbing. If you are concerned about lead levels in your home's water, you may wish to have your water tested & flush your tap for 30 seconds-2 minutes before using tap. More info is available from the Safe Drinking Water Hotline (1-800-426-4791).
Fluoride (ppm)	0.22 8/20/2019	4	4	NO	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Copper (ppm)	90 <sup>th</sup> Percentile calculated by NHDES" 0.4on 1/01/2019 No sites exceeded the AL of 1.3.	AL=1.3	1.3	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	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.
<b>Volatile Organic Contaminants</b>						
Contaminant (Units)	Level Detected	MCL	MCLG	Violation Yes/No	Likely Source of Contamination	Health Effects (Env-DW 811.21)
Haloacetic Acids (HAA) (ppb)	9.4 Ug/L 7/21/2021	60	NA	NO	By-product of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

TTHM Total Trihalo-methanes (ppb)	11.17Ug/L 7/21/2021	100/80	N/A	NO	By-product of drinking water chlorination	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.
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**Secondary Contaminants**

Secondary MCLs (SMCL)	Level Detected	Date	Treatment technique (if any)	SMCL	Specific contaminant criteria and reason for monitoring
Zinc (ppm)	0.013	8/20/2019	N/A	5	Galvanized Pipe
Sodium (ppm)	19	8/20/2019	N/A	250	We are required to regularly sample for sodium
Sulfate (ppm)	4.7	8/20/2019	N/A	250	Naturally occurring
Chloroform	8.0, 4.0	7/21/2021	NA	0.07	We are required to regularly sample for Chloroform
Bromodichloromethane	2.4, 2.2	7/21/2021	NA	0	We are required to regularly sample for Bromodichloromethane
Dischloroacetic Acid	6	7/21/2021	N/A	0	We are required to regularly sample for Dichloroacetic Acid
Trichloroacetic Acid	3.4	7/21/2021	N/A	0.02	We are required to regularly sample for Trichloroacetic Acid
Dibromochloromethane	0.77, 0.76	7/21/2021	N/A	0.06	We are required to regularly sample for Dibromochloromethane
Hydrogen Ion (PH)	6.96	8/20/2019	N/A	6.5-8.5	Precipitation and geology
Chloride (ppm)	60	8/20/2019	N/A	250	Wastewater, road salt, water softeners, corrosion
Hydrogen Ion (PH)	6.69	8/20/2019	N/A	6.5-8.5	Precipitation and geology

**VIOLATIONS, Treatment & Other info**

There were No Violations in 2021 for Franconia Village Water.

The system utilizes sodium hydroxide for corrosion control to keep lead & copper at reduced levels within the distribution system. Franconia also uses sodium hypochlorite (chlorine) to disinfect the water in order to eliminate bacteria.