

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* & 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. Lakes Region 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/drink/info/lead/index.cfm>.

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 owner, Thomas Mason at (603) 476-2348 or the primary operator, Justin Benes, at (603) 476-2348. Although Lakes Region does not hold public participation meetings, you are welcome to contact us with questions and concerns.

Source Assessment Reports

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 below 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 Source Assessment Report is available for review at LRWC's office in Moultonborough, NH. For more information contact our office or visit the NHDES' website:

<http://des.nh.gov/organization/divisions/water/dwgb/dwspp/dwsap.htm>

175 Estates CWS		Susceptibility Factor Ratings		
Source Name	Date	Low	Med	High
Bedrock Well #1	4/12/02	8	3	1
Bedrock Well #2	4/12/02	8	3	1

2018 Consumer Confidence Report

*For 175 Estates in Thornton, NH
EPA ID# 2342010*



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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 2017. Results prior to 2017 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?

Lakes Region Water Company (LRWC) owns & operates two deep bedrock wells. Bedrock well #1 is approximately 200 feet deep, yields 35 gallons per minute (GPM) and is located 32 feet northeast of the pumphouse. Bedrock well #2 yields 8 GPM, is approximately 420 feet deep and is located 46 feet southeast of the pump house.

Violation, Treatment & Other Info

During 2017, the water was treated with green sand filtration for iron (unregulated contaminant) removal. There was 1 violation to report for 2017. MCL Violation of Radionuclide. On 11/16/2017 Compliance Gross alpha exceeded MCL of 15 pCi/L with a sample of 20 Ug/L & Uranium exceeded MCL of 30Ug/L with a sample of 51 Ug/L.

Definitions:

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 (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 for Water Quality Chart:

ppm: parts per million

ppb: parts per billion (µg/L)

pCi/L: pico curies per liter

µg/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)
Radioactive Contaminants						
Compliance Gross Alpha (pCi/L)	20.3 11/16/2017	15	0	Yes	Erosion of natural deposits	Certain Minerals are radioactive and may emit a form of radiation known 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 (ug/L)	15 11/3/11	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.
Combined Radium (pCi/L)	0.3 11/3/11	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.
Inorganic Contaminants						
Barium (ppm)	0.004 11/16/2017	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.
Lead (ppb)	90th Percentile as calculated by NHDES on 7/16/2015	15	15	NO	Corrosion of household plumbing systems, erosion of natural deposits	(15 ppb in more than 5%) Infants and young children are typically more vulnerable to lead in drinking water than the general population. 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 elevated lead levels in your home's water, you may wish to

	was 1.0 NO sites exceeded the AL of 15					have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).
Copper (ppm)	90 th Percentile as calculated by NHDES on 7/16/2015 was 0.029. 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.
Nitrate (as Nitrogen) (ppm)	0.6 10/21/2015	10	10	NO	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm through 10ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) 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.
Total Trihalomethanes (TTHM) (Bromodichloromethane Bromoform Dibromomethane Chloroform) (ppb)	Bromodichloromethane 23 10/21/2015 Chloroform 12 10/21/2015	100/80	NA	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.
Fluoride (ppm)	0.63 11/16/2017	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.
Nickel	0.003 11/16/2017			NO		We are Required to Regularly Sample for Nickel
Zinc	0.099 11/16/2017			NO		We are Required to Regularly Sample for Zinc
Sulfate	13 11/16/2017			NO		We are Required to Regularly Sample for Sulfate
Chloride	13 11/16/2017			NO		We are Required to Regularly Sample for Chloride

Hydrogen Ion (PH)	7.7 11/16/2017			NO		We are Required to Regularly Sample for Hydrogen Ion (PH)
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Violations

Violation Type	Date of Violation	Explanation	Violation Length	Actions to Resolve	Health Effects (Env-DW 811.21)
MCL Violation of Radionuclides	11/16/2017	On 11/16/2017 Compliance Gross alpha exceeded MCL of 15 pCi/L with a sample of 20 Ug/L & Uranium exceeded MCL of 30Ug/L with a sample of 51 Ug/L		Additional quarterly sampling is required by NHDES & LRW Co. is also investigating treatment options if treatment is needed in the future	