

Consumer Confidence Report

Spruce Pond

EPA # 2542180

2021

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 all detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs).

NOW IT COMES WITH A LIST OF INGREDIENTS.



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 amounts 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.

What is the source of my drinking water?

The Spruce Pond water system obtains its water from two simultaneously operating bedrock wells. Bedrock Well # 1 located 25 feet southeast of the pump house is 356 feet deep and yields 20 gallons per minute. Bedrock Well # 2 is located 54 feet southwest of the pump house and is 305 feet deep and, yields 40 gallons per minute. Treatment consists of pH adjustment, chlorine and filtration to reduce iron and manganese, ion exchange to reduce hardness, and chlorine as a disinfectant. The average (2017) daily use is 15,115 gallons.

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

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 at 1-800-426-4791.

Source Water Assessment Summary

Department of Environmental Service (DES) 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 Name	Date	Low	Med	High
BRW # 1	Information not available			
BRW # 2	Information not available			

At the present time, DES has no plans to update this data.

Visit the DES Drinking Water Source Assessment website at <https://www.des.nh.gov/climate-and-sustainability/conservation-mitigation-and-restoration/source-water-protection/assessment>

How can I get involved?

For more information about your drinking water, please call our laboratory at 800-553-5191 or send an email to customer-service@pennichuck.com. Although we do not have specific dates for public participation events or meetings, feel free to contact us with any questions you may have.

Violations: We are pleased to announce there were no violations.

Health Effects

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 to 2 minutes 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 at 800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Radon: Radon is a radioactive gas that you cannot see, taste or smell. It can move up through the ground and into a home through cracks and holes in the foundation. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. It is a known human carcinogen. Breathing radon can lead to lung cancer. Drinking water containing radon may cause an increased risk of stomach cancer.

Sodium: Sodium sensitive individuals such as those experiencing hypertension, kidney failure, or congestive heart failure, who drink water containing sodium, should be aware of levels where exposures are being carefully controlled.

Definitions

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

Maximum Contaminant Level or MCL: 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 or MCLG: 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 or 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 or 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 contaminants.

Secondary Maximum Contaminant Level or SMCL:

They identify acceptable concentrations of contaminants which cause unpleasant tastes, odors, or colors in the water.

Abbreviations

NA: Not Applicable

ND: Not Detectable at testing limits

pCi/L: picoCurie per Liter

ppt: parts per trillion

ppb: parts per billion

ppm: parts per million

RAA: Running Annual Average

90th Percentile – Out of every 10 homes sampled, 9 were at or below this level

2020 Results

Inorganic Contaminants	Year Collected	Highest Detect	Range Detected	MCL	MCLG	Violation Yes/No	Typical Source of Contaminant																										
Barium (ppm)	2020	0.0172	NA	2	2	No	Geological; oil/gas drilling, painting, industrial waste																										
Chromium (ppb)	2020	1.1	NA	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits																										
Per- and Polyfluoroalkyl Substances (PFAS)																																	
Perfluorooctanoic acid (PFOA)(ppt)	2020	5.52	2019(7.54)	12	0	No	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems																										
Disinfectant and Disinfection By-Products																																	
Chlorine (ppm)	Monthly 2020	Average 0.20	0.09 – 0.39	4-MRDL	4-MRDLG	No	Water additive used to control microbes																										
Total Trihalomethanes (ppb)	2019	0.5	NA	80	0	No	By-product of drinking water chlorination																										
Radiological Contaminants																																	
Radium 226 & 228 (pCi/L)	2014	0.4±0.6	NA	5	0	No	Erosion of natural deposits																										
Radon (pCi/L)	2020	1,102	NA	Not Regulated	Advisory Level 2,000	NA	Erosion of natural deposits and radioactive materials																										
<table border="1"> <thead> <tr> <th>Year Collected</th> <th>90th Percentile</th> <th>Action Level</th> <th>MCLG</th> <th># of Sites Sampled</th> <th># Sites Above Action Level</th> <th>Violation Yes/No</th> <th>Typical Source of Contaminant</th> </tr> </thead> <tbody> <tr> <td>Lead (ppb)</td> <td>2019</td> <td>0</td> <td>15</td> <td>0</td> <td>8</td> <td>0</td> <td>No</td> <td>Corrosion of household plumbing system</td> </tr> <tr> <td>Copper (ppm)</td> <td>2019</td> <td>0.143</td> <td>1.3</td> <td>1.3</td> <td>8</td> <td>0</td> <td>No</td> <td>Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives</td> </tr> </tbody> </table>								Year Collected	90th Percentile	Action Level	MCLG	# of Sites Sampled	# Sites Above Action Level	Violation Yes/No	Typical Source of Contaminant	Lead (ppb)	2019	0	15	0	8	0	No	Corrosion of household plumbing system	Copper (ppm)	2019	0.143	1.3	1.3	8	0	No	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives
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Secondary MCLs (SMCL)	Level Detected	Date	Treatment technique (if any)	AL (Action Level), SMCL or AGQS (Ambient groundwater quality standard)	Specific contaminant criteria and reason for monitoring																												
Chloride (ppm)	292	2018	N/A	250	Wastewater, road salt, water softeners, corrosion																												
Fluoride (ppm)	0.44	2018	N/A	2	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories																												
Iron (ppm)	0.21	2018	filtration	0.3	Geological																												
Hardness (ppm)	211	2018	ion exchange	N/A	Geological																												
Manganese (ppb)	1.4	2018	filtration	50	Geological																												
Nickel (ppm)	0.0014	2018	N/A	N/A	Geological; electroplating, battery production, ceramics																												
pH (SU)	7.58	2018	pH-adjustment	6.5-8.5	Precipitation and geology																												
Sodium (ppm)	142	2018	N/A	100-250	Road salt, septic systems (salt from water softeners) We are required to regularly sample for sodium																												
Sulfate (ppm)	20	2018	N/A	250	Naturally occurring																												
Zinc (ppm)	0.0210	2018	N/A	5	Galvanized pipes																												

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