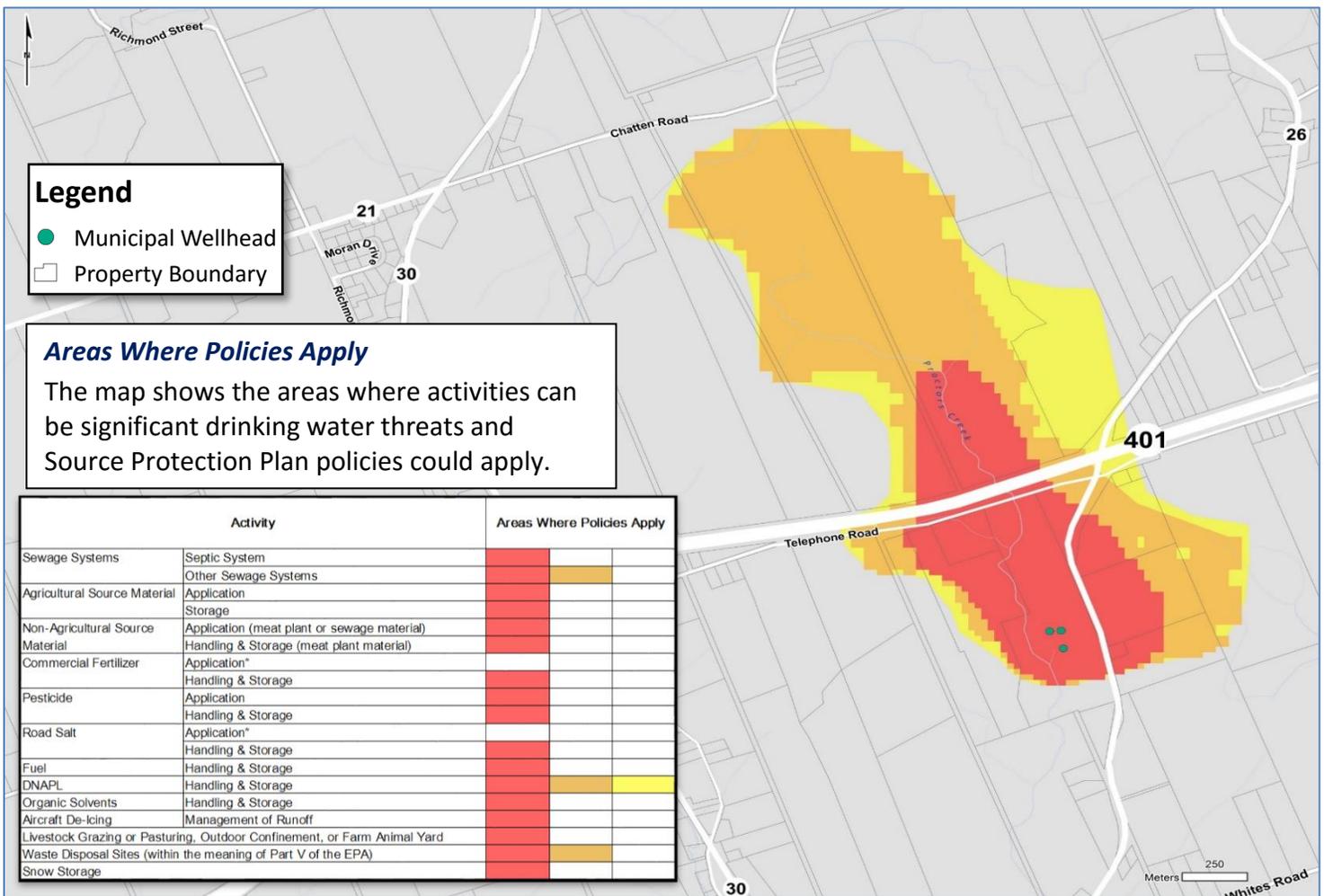


The Brighton municipal drinking water system is one of 53 systems in the Trent Conservation Coalition Source Protection Region and it was examined as part of the studies completed for the Drinking Water Source Protection program.

The system is located in the **Lower Trent Source Protection Area** and is owned by the **Municipality of Brighton**. The areas around the wellhead, the wellhead protection areas, are the vulnerable areas around the system where activities have the potential to be significant threats to the drinking water source. The Trent Source Protection Plan contains policies to manage or eliminate the significant threats that have been identified for the Brighton municipal drinking water system. Policies also apply to activities that would be significant threats if they were carried out in the future. This Factsheet provides a summary of Source Protection planning and the existing significant threats for the Brighton system.

System Summary

<i>Water Source</i>	Groundwater
<i>Operating Authority</i>	Municipality of Brighton
<i>SDWA Classification</i>	Large municipal residential ¹
<i>Serviced Population</i>	~5,850



Wellhead Protection Zones

Wellhead protection areas (WHPA) are delineated based on the length of time it takes for water to move from the ground surface, underground to the well. This delineation helps to identify the length of time it would take most contaminants to travel from the location of a spill or leak to the associated well.

Once a contaminant comes into contact with a permeable surface, it will percolate through the layers of soil until it reaches an aquifer where it is then transported to the municipal well.

- **WHPA-A** is the area immediately adjacent to a well. It is delineated as a circle with a 100 metre radius centered on the well. Since there are three wells in the system, the WHPA-A is a combination of the three circles.
- **WHPA-B, WHPA-C and WHPA-D** are delineated based on the amount of time it takes water to travel horizontally through the aquifer towards the well. These three WHPAs represent two, five, and twenty-five year times of travel, respectively.

Significant Drinking Water Threats

An activity is considered a significant drinking water threat if it is undertaken in a vulnerable area under circumstances that pose a significant risk to the water source. These circumstances are set out in the [2009 Tables of Drinking Water Threats](#), which are a part of the Clean Water Act regulations. Significant drinking water threats are addressed by policies in the Source Protection Plan.

A total of 8 significant drinking water threats were identified on 6 parcels of land within the Brighton WHPAs.

Identifying Drinking Water Threats

Drinking water threats were initially assessed in 2009-2010 during the preparation of the Assessment Report. A verification of these threats was carried out in summer/fall 2013 to confirm the findings of the initial assessment and to obtain more specific information about the circumstances of the identified activities. The threat verification identified activities taking place at the time of the assessment and activities that take place seasonally, rotationally, or occasionally as part of regular operations on the property (e.g. application of manure). These activities are considered existing threats. Activities occurring after the Source Protection Plan comes into effect are considered future threats.

Potential Drinking Water Threats for the Brighton System

[Learn More](#)

Sewage Systems	Sewage Systems Fact Sheet
Agricultural Activities	Agricultural Activities Fact Sheet
Non-Agricultural Source Material	Anne.Anderson@ltc.on.ca
Commercial Fertilizer <ul style="list-style-type: none"> • Handling & Storage 	Anne.Anderson@ltc.on.ca
Pesticide	Pesticide Fact Sheet
Road Salt <ul style="list-style-type: none"> • Handling & Storage 	Anne.Anderson@ltc.on.ca
Fuel	Fuel Fact Sheet
DNAPL	DNAPL Fact Sheet
Organic Solvents	Anne.Anderson@ltc.on.ca
Waste Disposal Sites	Anne.Anderson@ltc.on.ca
Snow Storage	Anne.Anderson@ltc.on.ca

Source Protection Plan

Source protection policies make use of a variety of approaches such as education and outreach, land use planning, inspections, and monitoring. For some activities, policies require landowners to work with a Risk Management Official to identify and implement measures to be more protective of drinking water. For activities already managed through existing tools, such as Environmental Compliance Approvals or Nutrient Management Plans, policies call for a review of these documents to ensure drinking water is addressed. In a limited number of cases, policies prohibit new activities from being started. Education and outreach to landowners will be a key component in the successful protection of our drinking water.

Fun Facts

- The annual average pumping rate of the Brighton system is 2,628 cubic metres per day.
- There is a total of 3 wells servicing the Brighton municipal water system, and each is dug to a depth of 40 meters.

For more information about the Clean Water Act or drinking water source protection:

- Visit our website at www.trentsourceprotection.on.ca
- Anne Anderson, Lower Trent Conservation, at (613) 394-3915 ext. 219 or anne.anderson@ltc.on.ca

