

Ausable Bayfield Maitland Valley Source Protection Region

Threats to your drinking water sources

In your area, many activities have the potential to harm drinking water sources. These activities may include storage of sewage (including septic systems), fuel (including home heating oil), chemicals, storing or applying pesticides and fertilizers, and others.

When these types of activities take place near a municipal well there is a chance of impairing your local drinking water. That's why we need your help to ensure activities are managed well to protect water sources.

The Province of Ontario created a law called the *Clean Water Act, 2006* to reduce risk to your drinking water. Ontario has listed 21 activities or conditions that could harm water sources.

Reducing risk

Your local source protection committee has worked to create practical, effective plans to reduce risk posed by the 21 drinking water threat activities.

Plans for the Maitland Valley and Ausable Bayfield areas use a number of ways to reduce this risk. Policies include education and outreach, risk management plans, changes to municipal land use planning documents, and prohibition of establishing some threat activities.

The Ontario Minister of the Environment and Climate Change approved the plans on January 19, 2015. The plans took effect on April 1, 2015.

Many landowners have already reduced risk to drinking water by doing stewardship projects in close proximity to drinking water sources, and improving storage or application practices.

Locally-developed source protection plans are found at **sourcewaterinfo.on.ca**.

Activities are assessed as low, moderate, or significant threats to drinking water. The level of threat depends on where the activities take place (for example, near a municipal well, on land that is vulnerable to contamination, etc.) and the circumstances (for example, the quantity; above or below the ground; etc.).

Find out about how vulnerable areas were mapped and how threats were assessed by visiting your local website at **sourcewaterinfo.on.ca**. You may also talk to your local risk management official or staff of the source protection region. Contact information is on the next page.

Together, we can protect our local sources of drinking water.

What are examples of threats to drinking water?

- Septic systems; On-site sewage
- Fuel oil (e.g., home heating oil)
- Liquid fuel (e.g., large commercial fuel storage)
- Chemicals (toxic chemicals such as organic solvents and dense non-aqueous phase liquids or DNAPLs)
- Commercial fertilizer
- Pesticides
- Nutrients (manure, bio-solids, grazing)
- Waste disposal sites (including storage of hazardous waste)
- Sewage works (sewage treatment plants, municipal sewers)
- Road salt and snow storage
- Others: See list of 21 provincially prescribed drinking threats, and more examples, on next page. You may also visit the local website at: sourcewaterinfo.on.ca

Drinking Water Threat Activity	Examples of Threat
 Prescribed by Regulation 	
Establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act	Storage of PCBs, waste oil and other hazardous waste; landfilling of hazardous, non-hazardous, municipal or commercial waste; land application of untreated sentage
Establishment operation or maintenance of a system	Sentic systems stormwater treatment ponds discharge of
that collects, stores, transmits, treats, or disposes of sewage. (<i>Includes septic systems</i>).	industrial effluent, sewage treatment plants and sanitary sewer systems.
Use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm animal yard.	Fields where livestock graze, feed lots and confinement areas outside barns.
Application of agricultural source material to land.	Manure produced by farm animals, and runoff from farm yards
Storage of agricultural source material.	waste, or compost (such as mushroom compost).
Management of agricultural source material.	
Application of non-agricultural source material.	Land application of sewage bio-solids or other similar wastes
Handling and storage of non-agricultural source material.	such as pulp and paper bio-solids or waste materials from food processing.
Application of commercial fertilizer to land.	Nitrogen and phosphorus applied or stored for farm or
Handling and storage of commercial fertilizer.	commercial use (such as landscaping or golf courses).
Application of pesticide to land.	Specific categories of pesticides including: herbicides, fungicides, or those used as a soil fumigant to control fungi, nematodes, and
Handling and storage of pesticide.	weeds, for farm and commercial use.
Application of road salt.	Road salt, pickled sand in large quantities.
Handling and storage of road salt.	
Storage of snow.	Snow storage over one (1) hectare. Municipal or commercial snow dumps.
Handling and storage of fuel.	Gas stations and card locks or key locks, marinas, private storage such as farms and contractor yards, and heating oil tanks for homes and businesses.
Handling and storage of a dense non-aqueous phase liquid or DNAPL.	DNAPLs and/or organic solvents may be found in dry-cleaning chemicals, paint and spot removers, rug cleaning fluids, varnishes, paints, lacquers, adhesives, glues, and de-greasing or cleaning agents, and substances used in the production of dyes, polymers, plastics, textiles, and printing inks.
Handling and storage of an organic solvent.	
Management of runoff that contains chemicals used in the de-icing of aircraft.	Large airports using ethylene glycol to de-ice aircrafts.
An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body. (<i>This is a water quantity threat</i>).	Water taken from groundwater and then discharged into a lake or river. Canning factories; bottling plants.
An activity that reduces the recharge of an aquifer. (<i>This is a water quantity threat</i>).	Increasing impervious cover of the ground, often through construction of paved areas, for example, parking lots.
Ausable Bayfield Maitland Valley Source Protection Region	
c/o 71108 Morrison Line, RR 3 Exeter, ON • N0M 1S5	
1-888-286-2610 • sourcewaterinfo.on.ca	
waitiand valley source Protection Area: 519-555-5557 • Ausable Bayfield Source Protection Area: 519-235-2610	
This project has received funding support from the Government of Ontario.	
May 2015 • This content is provisional, for local information purposes, and subject to change.	