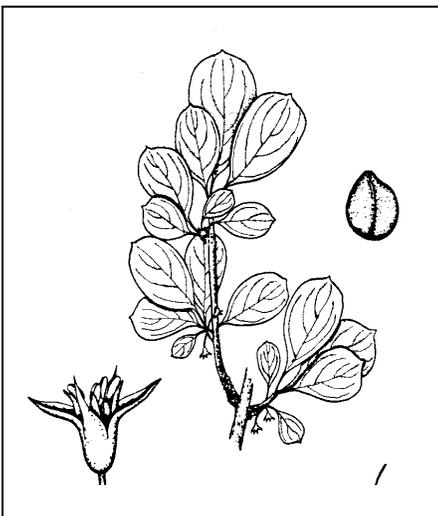


Buckthorn Control Demonstration: Urban Forestry is working with BioForest, an urban and commercial pest management company, to demonstrate the bioherbicide Chontrol Peat Paste and its use controlling invasive buckthorn shrubs in an urban setting. The results of this treatment may take up to 24 months to achieve optimal control as the bioherbicide needs time to colonize cut stumps. Previous trials in rural areas of Quebec and Ontario have shown 89-93% effectiveness over a similar timeline.

Treatment Area: The demonstration site is marked with information signs at prominent locations around its edge. Although the bioherbicide being applied is not considered harmful to people and animals, there is a potential for skin irritation, and therefore it is wise to reduce your and your pet's exposure by staying on the designated pathways. As this is an active demonstration plot, please avoid the treatment area until the signs are taken down.

Pesticide: Chontrol Peat Paste with active ingredient *Chondrostereum purpureum* is a bioherbicide. The active ingredient is a naturally occurring fungi found in forest systems that can colonize freshly cut stumps or wounds in woody plants. It works by colonizing the cut, infecting the plant and preventing regrowth. Its effectiveness sometimes takes up to 24 months to be evident.



Common Buckthorn

Species: City of Toronto's Forestry branch is managing this forest by controlling invasive woody trees and shrubs, and encouraging regeneration of native species.

The invasive species being treated in this site is **common buckthorn** (*Rhamnus cathartica*). This species negatively impacts native plants and habitat by:

- Crowding out and shading native vegetation and young trees
- Changing soil chemistry to encourage its own growth, setting back native plants
- Negatively impacting associated native fauna
- Encouraging soil erosion due to lack of ground cover

Method: Licensed applicators apply a paste containing the fungi directly to each individual cut stump. This labour-intensive method of control ensures that only targeted species are impacted and that very small quantities of the product are used. The shrubs will likely resprout, and the shoots could take months to eventually decay and stop growing.

Legislation: The treatment is being carried out as a test demonstration for pesticide research under the Pest Control Products Act, with a trial research permit granted by the Pest Management Regulatory Agency (PMRA).

For more information about City of Toronto Forest Management, please call 311 or visit www.toronto.ca/trees.

For more information on the Chontrol Peat Paste research trial contact 1-888-236-7378