



Habitat Restoration Project 2011
- Humber River: Bolton, Ontario -

Bolton Resource Management Tract Log Revetment Bank Stabilization

Habitat Project Lead: *Ontario Federation of Anglers and Hunters*

Habitat Project Funding Lead: *TD Friends of the Environment Foundation*

Date Completed: *September 14, 2011*

The Lake Ontario Atlantic Salmon Restoration Program partnered with the Toronto and Region Conservation Authority (TRCA) to undertake a large scale bank stabilization project along the Humber River in the Bolton Resource Management Tract. The project was completed by TRCA, Ministry of Natural Resources (MNR) and OFAH Atlantic Salmon Program staff. Staff first installed a sediment fence to stop any erosion caused by working in the water and prevent any harmful alterations to fish habitat. The eroded stream bank was built back up with large woody material including root wads (stump with root attached) anchored to the bank with aircraft cable (revetment) and round river stone to fill in the smaller spaces. The revetment process is a much softer technique for stabilizing stream banks (compared to all hard rock). The root wads mimic natural root structures found in less disturbed areas. The work took place from September 6 to August 14, 2011 and the sediment fence was left in for another month to collect sediment as the newly restored bank settled. This project improved Atlantic Salmon habitat by providing shade under overhanging root wads, stabilizing the stream bank to reduce erosion and visually illustrate the importance of habitat restoration to community members that hike these public lands.



Figure 1: Revetment site before restoration with eroded banks.



Figure 2: MNR and TRCA crew anchoring root wads along the stream bank with aircraft cable and soil spikes.



Figure 3: Completed revetment project with the TRCA crew standing on the root wads.