



Habitat Restoration Project 2012
- Humber River: Palgrave, Ontario -

Albion Hills Conservation Area Trail Side Revetment

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

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

Date Completed: *September 14, 2012*

In the beginning of September, the Lake Ontario Atlantic Salmon Restoration Program partnered with the Toronto and Region Conservation Authority (TRCA) to undertake a bank stabilization project along the Humber River in the Albion Hills Conservation Area. Staff first installed a sediment fence to stop any additional erosion caused by working in the water, preventing any harmful alterations to existing fish habitat. The eroded stream bank was built back up with large woody material, including root wads (stump with roots attached) anchored to the bank with aircraft cable and round river stone to fill in the smaller spaces. This revetment technique was used because it is a soft (rather than all rock) approach to bank stabilization; the root wads mimic natural root structures found in less disturbed areas. Also, over time they allow the stream bank to trap sediment during high water rain events and build the bank up again. The work took place from September 12 to September 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 the overhanging root wads, stabilizing the stream bank to reduce erosion and visually illustrate the importance of habitat restoration to community members that mountain bike these public lands.



Figure 1: Revetment site as the first log was being added.



Figure 2: TRCA crew anchoring root wads along the stream bank.



Figure 3: Revetment site before filling in the holes with stone and soil.



Figure 4: Completed project as grass has started to grow back.