



PROJECT DESCRIPTION

Sabourin Creek is a small watershed in Ottawa’s East Urban Community that drains into the unique and environmentally sensitive waters of the Mer Bleue peat bog. Coldwater Consulting was retained by the City of Ottawa to develop stream restoration strategies for this site.

PROJECT APPROACH

Our approach combined natural channel design principles and hydraulic engineering to develop a channel that is in harmony with existing topographic controls. This allowed development of both lotic and lentic design elements. Lotic (fast flowing) sections meander down from the existing ravine with gravel riffle structures that create pools. At the lower portion of the property, gradients are reduced and a lentic pool is developed that will allow for deep water habitat (cooler waters) while at the same time providing a sedimentation and stilling basin for flood waters prior to their exit

CLIENT

City of Ottawa

LOCATION

Ottawa, ON

DATE

2012



from the subject property through a culvert. This pond has been sized and positioned to facilitate the installation of beaver control structures (‘beaver deceivers’) at the outlet culvert.

Through consideration of site hydrology and hydraulics channels have been designed to be stable and functional under three key scenarios: base flow conditions; bank-full conditions, and extreme flow events.