

GLENORCHY TRAIL

Steep Slope Stabilization

Oakville, Ontario; 2014

 **Envirolok**[®]

Vegetated Environmental Solutions

PROBLEM

Erosion: The subsurface of clay shale was eroding on this steep slope due to the scouring action of the adjacent Sixteen Mile Creek, which removed material from the slope walls, preventing the slope from reaching a stable inclination. Town officials were concerned their well used trail system would fail within the Glenorchy Conservation Area.



PROJECT BACKGROUND

Envirolok[™], combined with mechanical connection to the slope provides stability and the ability to expedite construction to restore vegetative cover lost to erosion.

Installation Method: A crane was used to access the slope across the creek and atop a 3m buttress to enable expedited construction.

Desired Results: Full Vegetative Cover with a mix of perennial grasses, wildflowers, willow, and dogwood.

Advanced Construction

Incorporated: 125 x 3m grouted and threaded rebar anchors were first installed into the slope to which Envirolok[™] was mechanically connected with geogrid.

Vegetation Approach: The project was hydroseeded immediately following construction with a Bonded Fibre Matrix containing native seed and perennial rye cover crop. Following application, approximately 2000 dogwood and willow live stakes were inserted into the Envirolok[™] structure.

Size of Project: Approx. 450m² constructed in 5.5 days.

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Permanent Erosion Control

Envirolok's patented system provides immediate stabilization, erosion control, and a permanent vegetated solution. Envirolok is adaptable to water or dry land sites.

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SOLUTION

Envirolok™ Results: Excellent results with full vegetated cover achieved within 3 months of construction.

Envirolok supplies a permanent vegetated solution to persistent erosion of slopes. Envirolok easily conforms to the natural contours of a slope compared to other systems. Envirolok also provides structural support that when combined with native vegetation allows the establishment of habitat along sensitive areas.

PROJECT PARTNERS

Engineer: AMEC Foster Wheeler

Contractor: CSL Group Ltd.

Bag Filler: Marco Clay Products Inc., Blandford-Blenheim, Ontario

Owner/Client – Town of Oakville

Approving Authority – Hamilton Conservation Authority

DISTRIBUTOR

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Go to ENVIROLOK.COM for more information, specifications, standard detail drawings, photos, and installation guides.

NOTE: Do not burn native vegetation growing on the Envirolok system. The bag fabric is flammable.

NOTE: Advice from an engineer is recommended when building walls more than 4' in height, or when site conditions include unusual erosion or weak soil conditions.

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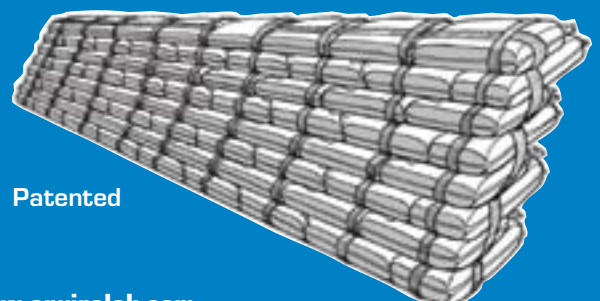
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