

# MEGADITCH DEBUT MAKES BIG WAVES IN CANADA!

*2296 feet of the expandable HDPE ditch lining system installed to correct severe water runoff and erosion control issues as part of mine reclamation project.*



Copper Mine Reclamation Project ♦ Murdochville, Quebec, Canada



Stormwater/Snow Melt Runoff & Erosion Control

## Situation -

In 2002, a copper mine in Murdochville, Quebec, was closed after 40 years of service. Then began the lengthy and necessary process of reclamation and rehabilitation of the mine itself, and the surrounding areas. A key concern was controlling erosion and sediment runoff once the snow began to melt each spring.

Previous attempts to mitigate soil erosion and stabilize the mine's old drainage pathways using traditional methods such as riprap were unsuccessful. The specifying design firm was convinced that SmartDitch *MegaDitch* was the only sustainable solution to channel the runoff and solve their erosion issues.

## Solution -

In the summer of 2010, SmartDitch Sales Rep, Ed Ney, and Canadian Distributor, Innovex, collaborated with Penda Corporation to accelerate the launch of its new SmartDitch *MegaDitch* expandable ditch lining system. It is the newest product addition to the SmartDitch family of established erosion control and water conveyance products. These include the 12" Trapezoidal, 24" Trapezoidal, and 24" Semi-Circular designs.

The customer was impressed with the concept of installing an HDPE ditch liner and wanted their solution to be the new SmartDitch *MegaDitch* system. With fall and winter fast approaching, Penda put *MegaDitch* production on the fast track in an effort to complete the installation before the harsh Canadian winter weather set in. Phase 1 of the installation project was completed in early December.

## Project Details -

The SmartDitch *MegaDitch* is an expandable system of overlapping, ribbed, HDPE base and wall sections designed to create a ditch or channel liner to virtually any specified size. *MegaDitch* is also engineered to have adjustable side-walls to conform to a variety of slope grades. *All additional details below are approximate:*

Total Length: 2,296.5 ft (700 m)

Maximum cfs: 585.92 (16.59 cms) - based on the channel's width, depth, and side-wall slope of approximately 50°

Channel Bottom Width: 12 ft. (3.54 m) - two 9 ft. x 6 ft. *MegaDitch* sections, connected side by side

Channel Wall Height: 6 ft (1.768 m) - one 9 ft. x 6 ft. *MegaDitch* Sidewall section

Anchoring System: Same Cable/Anchor system used to install standard SmartDitch

Sealing System: Overlapping sections sealed with custom specified adhesive

Equipment/Crew: Two backhoes for excavation, 6 men for installation and manual backfill where necessary