



CASE STUDY

TC ENERGY DRAINAGE CHANNEL

Channel Stabilization
Ricinus, Canada

PROJECT SUMMARY

TC Energy Corporation is a major energy company that develops and operates energy infrastructure throughout North America. Its Nova Gas Transmission System (NGTL) is a natural gas gather and transportation system that connects production in western Canada to domestic and export markets.

To expand its auxiliary systems and provide upgraded capacity for customers, the Clearwater Compressor Station expansion project was implemented. A section of the project included protecting a drainage channel that runs along the perimeter of the facility.

TC Energy has a long-standing commitment to protecting the environment and reducing greenhouse gases. PYRAMAT® High Performance Turf Reinforcement Mat (HPTRM) was chosen to provide long-term protection for the drainage channel because it offers an environmentally friendly and economic solution for slope protection.

GiveBack Contracting installed approximately 17,000 square meters of PYRAMAT. PYRAMAT delivers the highest specification requirements for erosion protection of slopes and is the only HPTRM to have a verified carbon footprint by an independent third-party. The HPTRM is engineered to promote vegetated reinforcement, maintaining a lower carbon impact at a lower installed cost than hard armor alternatives like rock and concrete.



PROBLEM

TC Energy needed to stabilize a drainage channel that borders its Nova Gas Transmission System.



SOLUTION

PYRAMAT was selected to stabilize the channel because it offers a low carbon solution that is more cost effective than rock riprap.



PYRAMAT®

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FEATURES & BENEFITS

- Provides long-term erosion protection for
- Withstands both hydraulic and non-hydraulic stresses
- Ease of installation reduces time and labor costs
- Reinforces vegetation and promotes a living shoreline
- Small carbon footprint
- Promotes infiltration of surface water
- Available in green or tan to fit specific project needs
- Lightweight and easily transported into areas with access challenges



PERFORMANCE

PYRAMAT was easily installed, making the project efficient and cost effective. Plus, PYRAMAT is engineered to promote vegetated reinforcement, which is one of the most effective ways to prevent erosion and sediment runoff.



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PGS-1693E-001 (08/2021)