

# PROJECT PROFILE



## TMax & ShoreMax

Permanent • High Performance Turf Reinforcement Mats • Fire Retardant • Slope Stabilization

# Enbridge Compressor Station Slope



**PROBLEM**



**SOLUTION**



**RESULT**

Layfield was contacted September 2021 for design options to stabilize a cut slope for a proposed building. The Site was 45 km SW of Chetwynd and quite remote. The Owner did not want vegetation on this slope however it required some form of erosion control. There was also a request for a material that was fire retardant (FR) and resistant to any damage from the longterm application of glyphosate for vegetation control.

The TMax high performance turf reinforcement mat (HPTRM) with an FR additive was selected to protect the slope, and designed with Falcon anchors and hex pins to secure it to the face for long term performance. The HPTRM TMax FR was chosen in a tan color to match the surrounding landscape. Rather than subject the synthetic yarns to frequent use of herbicides the Consultant opted to recommend a weed barrier (NuBarrier) to be installed underneath the HPTRM to prevent vegetation from establishment. The project was installed in September 2022 with the green NuBarrier placed first, followed by the HPTRM. All material overlaps were done in the direction of surface water flow. The system was secured using the combination of Falcon percussion driven anchors and hex pins.

There was a small drainage channel within the slope that was a concern during the installation due to cross direction overlaps of the material. The contractor wanted to install rip rap within this area to further protect the HPTRM but also to reduce any turbulent velocity of the surface water runoff. After discussion with the Consultant they opted to install ShoreMax transition mats. These provided some reduction in turbulent flow but also did not pose a risk to damage the HPTRM as large rip rap could, and it also provided a mechanical reinforcement to the overlaps.

## PRODUCT HIGHLIGHTS



Falcon Anchors and Hex Pins



ShoreMax

- High-Performance TRM to protect the cut slope
- Fire Retardant additive, and UV stabilization on the TMax provided additional protection for the slope.
- Falcon Anchors provided mechanical strength for surficial slope and high-loading capabilities.
- Falcon Hex Pins provide anchoring and soil to mat conformance across the slope and seams.