

Job History

Highway 897



EROSION RILLS FACING HIGHWAY

SITUATION

Ditches and banks along roadways are often some of the most heavily eroded surfaces. This causes the runoff flowing down the ditches to become heavily laden with sediment. Along with the sediment problem is the lack of slope stability and possible erosion of roadways or lands adjacent to the roadway.

At this site, erosion of the ditch bank facing the road caused unsightly erosion rills. Left untreated, these would pose problems with further erosion and possible loss of land for the neighboring field.

Normally, slopes are seeded with grass or other vegetation or laid with sod, utilizing the plants root system to secure the soil and prevent erosion. Erosion issues occur when seeds are blown or washed away before germination and root growth occurs, or there is no other best management practice used to stabilize the slope.

SOLUTION

Alberta Transportation contacted Clearflow for a solution.

Soil Lynx, and its ability to bind soil in place and tackify natural soft armoring to the slope were to be put to the test.

For the purposes of the project, no outside seed was to be used, Clearflow would test Soil Lynx tackification properties with soil and Geo Jute while vegetation growth occurred “naturally”.

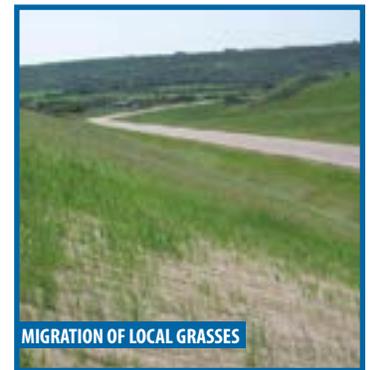
RESULTS

Returning to the site in June of the following year revealed the establishment of local grasses within the reclaimed area. With the Geo Jute acting like micro sties and the Geo Jute / Soil Lynx combination acting together to hold slope in place, substantial natural growth was observed and the water retention characteristics of the Geo Jute and Soil Lynx would further enhance continued growth. There was also no evidence of rills or erosion.

Clearflow products are listed with Alberta Transportation as approved products.



RE CONTOURED SLOPE COVERED WITH NATURAL JUTE FABRIC



MIGRATION OF LOCAL GRASSES



RECLAMATION AREA WAS NOT SEEDED