

**Product Evaluation**

Product ID: 8134-7-1  
Initiation Date: April 7, 2006  
Revision Date: June 22, 2009

**RE: Review of ScourStop Transition Mat**

**PRODUCT**

ScourStop Transition Mat is manufactured by Carpenter Erosion Control of Ankeny, Iowa and distributed in Alberta by Cascade Geotechnical of Edmonton and Brockwhite Geotechnical of Calgary.

**VENDOR CLAIMS AND INFORMATION**

**CLAIMS:**

ScourStop Transition Mat is a biotechnical alternative for riprap.

**DESCRIPTION:**

It is a 4' x 4' x 0.5" semi-rigid polymer mat designed with voids throughout the structure which enable vegetative growth. The synergy of mechanical protection and vegetation enables this BMP system to resist much higher shear stresses and velocities than vegetation alone or rock riprap. ScourStop Transition Mats must be used in combination with other soil covers: sod, sod and turf reinforcement mats, and with bare soil and turf reinforcement mats – for immediate and long term soil loss protection. Designers must design for a stable channel downstream of the scour area.

**POTENTIAL USAGE:**

Used at outlets of pipes, culverts, slope drains where concentrated storm water flows onto soil, sod, or turf reinforcement mats.

**STANDARDS:**

Carpenter Erosion Control (CEC) has done field tests and research on this product. A Draft report, entitled "ScourStop TM Data Report, 2005 Testing" was prepared for CEC by the Engineering Research Centre, Colorado State university. A copy of the report is filed in the AIT office.

**ALBERTA INFRASTRUCTURE and TRANSPORTATION COMMENTS**

**EXPERIENCE**

Alberta Transportation does not have experience with this product.

**APPLICABLE STANDARDS**

Alberta Transportation does not have a performance specification for this product.

**RECOMMENDATIONS**

ScourStop Transition Mat for erosion control be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems, Miscellaneous Erosion Control – Proprietary, based on the information provided.

**TRIAL PROJECTS**

Anthony Henday Drive SE Leg  
Lacombe Park Reservoir Outfall and Forest Lawn Ravine both located in St. Albert.

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow