

## Product Evaluation

### RE: Review of BMP-BDNSC Biodegradable Straw - Coconut

#### **PRODUCT**

BMP-BDNSC Biodegradable Straw - Coconut is manufactured and Distributed by BMP Supplies INC. located in Calgary, Alberta. Its manufacturing plant is located at Brooks, Alberta.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

The BMP Bio-Double Net Erosion Control Blanket Straw - Coconut (BDNSC) is 100% biodegradable, made of 70% straw and 30% coconut fiber matrix, designed for use on extreme slope and channel applications. These long-term blankets are designed to reduce soil erosion and channel sedimentation through a combination of physical, chemical, and biological means. The Blanket provides an effective and cost-efficient solution to soil erosion and sedimentation control. These blankets also offer a protective vegetative cover that aids in reducing water velocity and sedimentation. Website: [www.bmpsupplies.com/](http://www.bmpsupplies.com/)

##### **DESCRIPTION**

BMP BDNSC Standard Rolls are of sizes 8' X 112.5' (68 lbs) and 16' X 112.6' (a36 lbs). Unvegetated Bench scale Shear - 2 psf @ ½ in soil loss (95Pa). Packaged in orange shrink-wrap with a white label.

##### **POTENTIAL USAGE**

Typical applications are for highway ditches, and embankments for slopes up to 2H: 1V.

##### **STANDARDS**

ASTM D 7207 - Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions  
ASTM D 7322 - Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth  
ASTM D 7101 - Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has tried a large variety of rolled erosion control products in the past.

##### **APPLICABLE STANDARDS**

Alberta Transportation standard for Rolled Erosion Control Products is documented in Alberta Transportation Products List, and Erosion, and Sediment Control Manual BMP #13.

##### **RECOMMENDATIONS**

BMP BDNSC be listed as a Potential Product under Alberta Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blankets – Temporary RECPs – Type B, based on the information provided. Final acceptance as a proven product will be based on field performance.

##### **RESTRICTIONS ON USE**

Caveat:

#### **TRIAL PROJECTS**

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