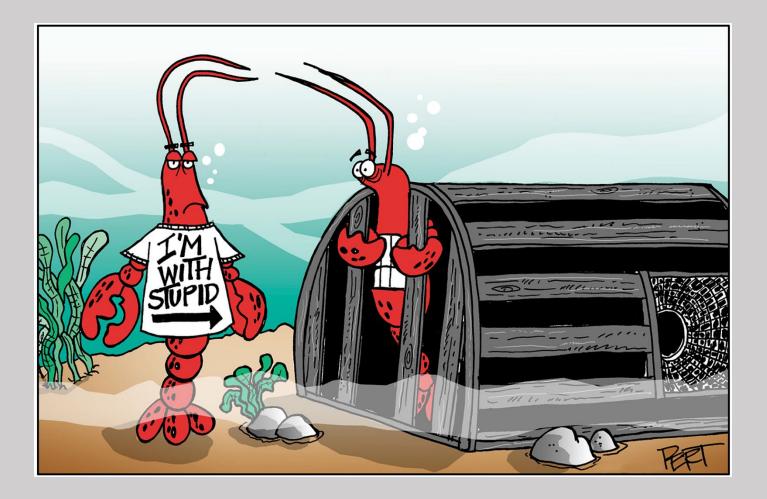
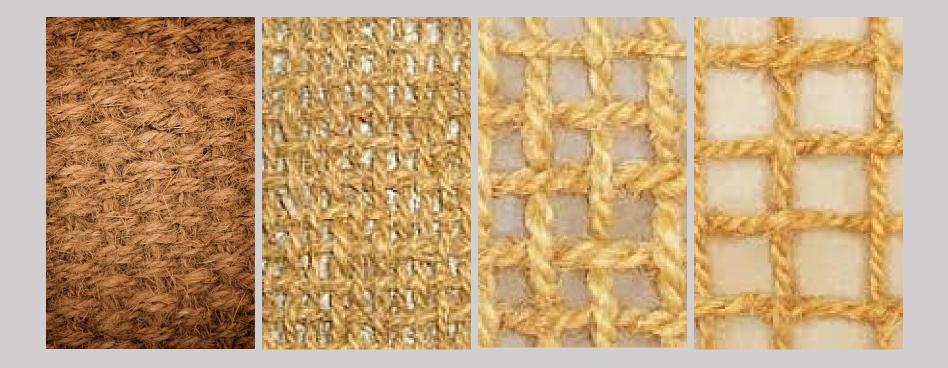


#### **Mike Everhart**

Eastern Erosion Control & Stormwater Specialist ME, NH, VT, Eastern Mass & RI 603-767-1263 <u>mike.everhart@ejprescott.com</u>

## Yep, I'm from Maine





• Coir matting: 400 -1,000gsm

#### **Coir Products**



Coir logs: 12"-20"dia 7 and 9lb density coir or polypropylene netting



#### **Coir Products**



#### **Coir Products**

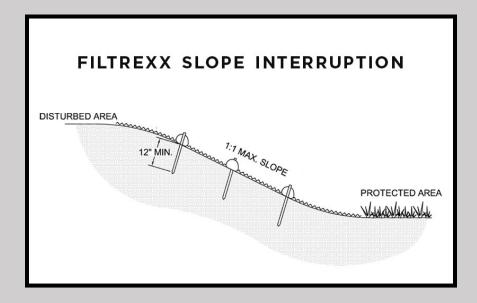


## Shoreline Stabilization, Choosing the right Solution



## **Bio-Soxx & Bio-Wattle**

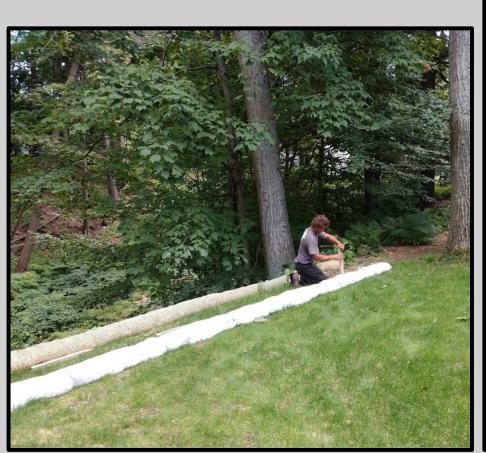
#### **Compost Soxx & Straw Wattles**



- Can use on 1:1 Slopes
- Better Trapping & Removal of Sediment & Pollutants
- More Intimate Ground Contact
- No Trenching
- Can be Installed on Frozen Ground

- Slows Runoff Velocity
- Reduce Slope Length
- Can be used in Environmentally
  Sensitive Areas





**Compost Soxx & Straw Wattles** 



#### **Compost Soxx & Straw Wattles**



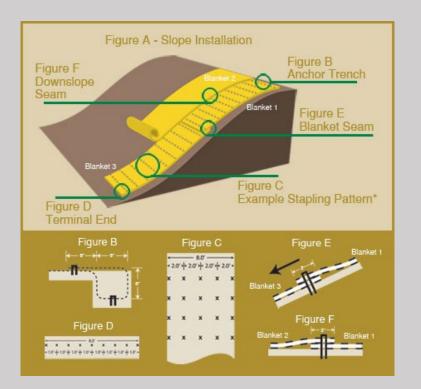


	BIONET	TEMPORARY BIONET		
		and a		
	S75BN	S150BN	SC150BN	C125 BN
Longevity	12 mo.	12 mo.	18 ma.	24 mo.
Applications	Low Flow Channels 41-3:1 Slopes	Moderate Flow Channels 31-2:1 Slopes	Medium Flow Channels 2:1-1:1 Slopes	High-Flow Channels 11 and Greater Slopes
Design Permissible Shear Stress Ibs/ft <sup>a</sup> (Pa)	Unvegetated 1.60 (76)	Unvegetated 1.85 (88)	Unvegetated 2:10(100)	Unvegetated 2.35 (112)
Design Permissible Velocity ft/s (m/s)	Unvegeta ted 5.00 (1.52)	Unvegetated 6.00(1.83)	Unvegetated 800 (2.44)	Unvegetated 10.00 (3.05)

- Temporary
- Single Net Straw
- Double Net Straw
- Double Net Straw/Coconut
- Double Net Coconut
- Excelsior
- Photodegradable
- Biodegradable

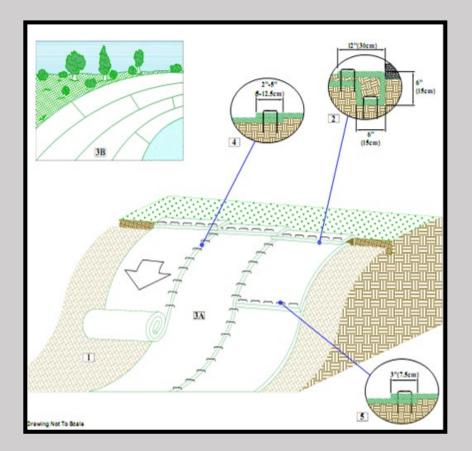
- Short Term Temporary
- Long Term Temporary
- 45 days
- 36 months

## Proper Installation of Erosion Control Blankets



#### Step to take when using ECB's

- Start 1-2 feet behind crest of slope
- Trench for keying in Blanket
- Seeding and amendments prior to installation of ECB
- Staple ECB in Trench
- Backfill Trench
- Roll ECB down slope
- Pull ECB tight while stapling down slope
- Verify 100% ground contact













## **Hydraulic Erosion Control Mulches**

#### Hydraulically Applied Erosion Control Mulches



Hydoseeding





#### **Hydraulically Applied Erosion Control Mulches**

Products are Environmentally Friendly...

- **Biodegradable** mulch/matrix media
- **100% recycled** wood and paper fibers
- **Biodegradable** mulch fibers and tackifiers
- Phyto-sanitized wood fibers Thermally-refined<sup>™</sup>
  No pathogens and weed contaminants
- **Non-toxic** passing EPA ecotoxicity testing protocol



#### **Hydraulically Applied Erosion Control Mulches**

#### Thermally refined



#### **Atmospherically refined**



Fiber magnified 45 times by independent lab specializing in fiber analysis

## **Hydraulically Applied Erosion Control Mulches**

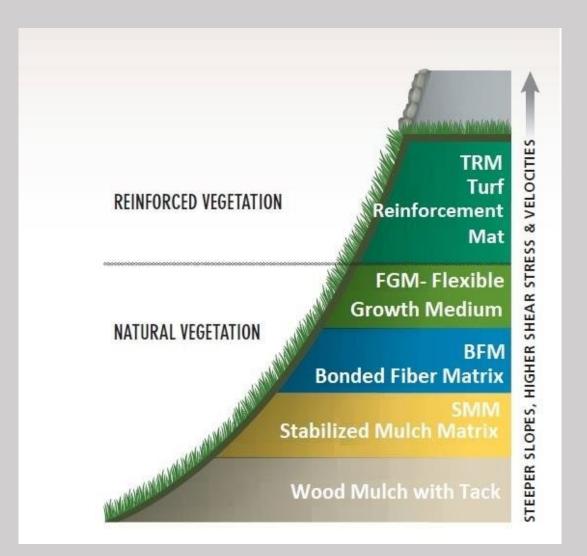
#### **Seeding Mulches**

- Cellulose
- Wood Fiber
- Blend 70/30
- Pelletized fiber
- Straw fiber

#### **Erosion Control Mulches**

- Stabilized Mulch Matrix (SMM)(SFM)
- Bonded Fiber Matrix (BFM)
- Engineered Fiber Matrix (EFM)
- Fiber Reinforced Matrix (FRM)(FGM)

#### **Hydraulically Applied Erosion Control Mulches**



#### Hydraulically Applied Erosion Control Mulches



#### Hydraulically Applied Erosion Control Mulches

**Sensitive Areas Near Water Bodies** 



#### **Hydraulically Applied Erosion Control Mulches**

**Sensitive Areas Near Water Bodies** 



#### Hydraulically Applied Erosion Control Mulches

**Sensitive Areas Near Water Bodies** 



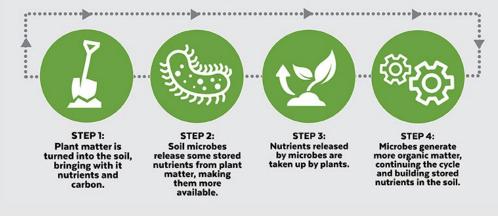
# What is the best form of Erosion Control?

# Sustainable vegetation!

## Sustainability Comes From Nutrient Cycling

Requires a <u>healthy</u> <u>soil</u> as the infrastructure to support and nurture vegetation

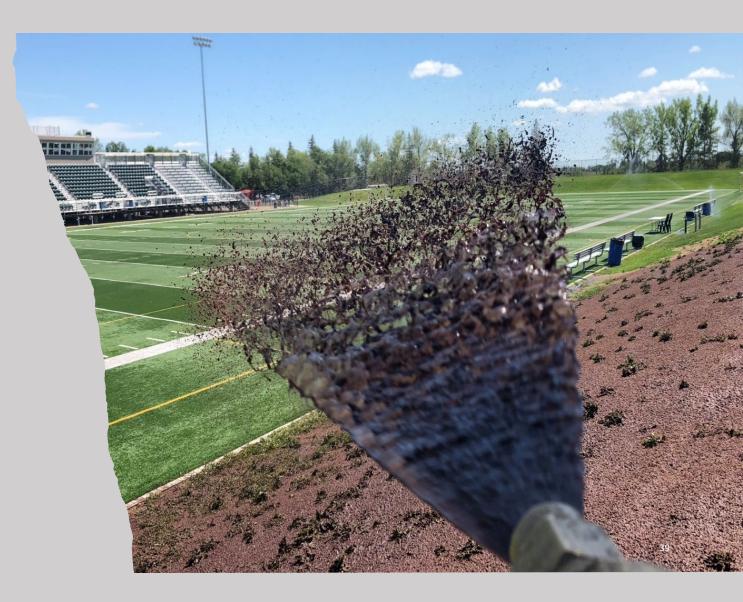
#### HOW MICROBES INCREASE SOIL NUTRIENT AVAILABILITY & BUILD SOIL ORGANIC MATTER



# Organic Matter and Biological Activity

- Organic Matter (OM) is the foundation for all biological life in the soil
- OM provides structure and water-holding capacity
- Without biological life, the OM is not capable of building a solid foundation





#### **ProGanics™ Biotic Soil Media™** "The World's Most Advanced Engineered Soil Media"

**ProGanics™ Biotic Soil Media™** is a <u>patented</u> composite of Engineered Soil Media™ (ESM™) designed to accelerate development of soils and substrates with low organic matter, low nutrient levels, and limited biological activity.

**ProGanics** improves your soil profile and composition by adding organic matter, biostimulants, and soil building components to create a more favorable growing environment.



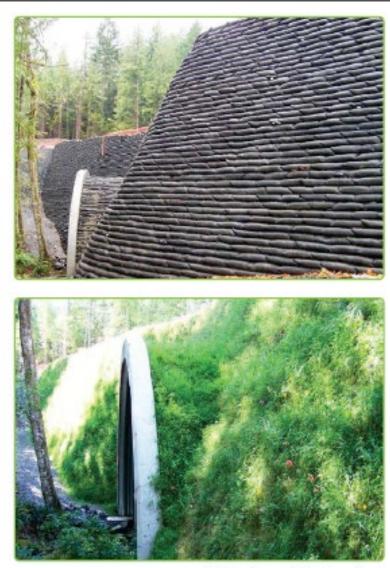
## Gorham, ME



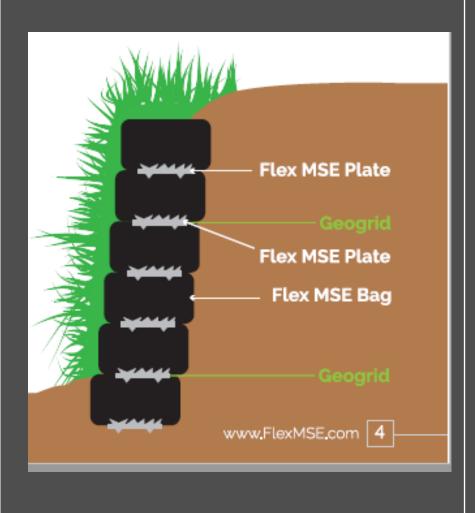
## Gorham, ME







10m (33ft) tall municipal roadway



- Can be installed from horizontal to 90° (1:1 1:10 typ.)
- Able to withstand almost unlimited differential settlement
- ASTM rated 120 year design life with a 75 year warranty
- Only Geosynthetic System in the world with an EPD/LCA
- Uses 97% less GHG than concrete, 98.5% less than steel
- 50% recycled content, 100% recyclable
- Installs in 2/3 the time, at 60% the cost of other systems







#### ECO-FRIENDLY INFRASTRUCTURE LANGFORD, BC









## **THANK YOU**

#### **Mike Everhart**

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