

# The Geosource **Technical Guide**

## When to use a VRSS:

- When you have a failed slope
- When you cannot re-grade the slope to 3:1 or flatter
- When you have a preference to regain land at the top of the creek and need to add fill anyway

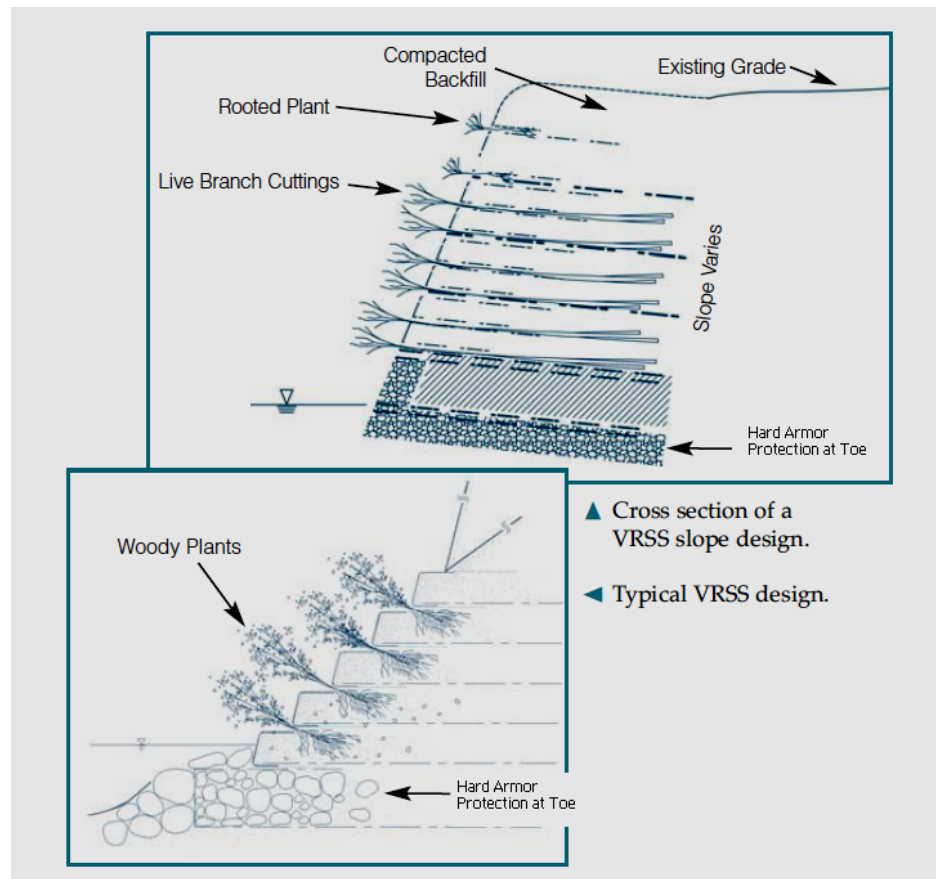
## Why use a VRSS:

- Provides for a vegetated solution
- The Vegetation creates habitat, shading, energy absorption, and filtering benefits
- It is structurally very strong
- The system offers a stable engineered solution with bioengineering advantages

## Vegetated Reinforced Soil Slope (VRSS)

The vegetated reinforced soil slope (VRSS) soil bioengineering system is an earthen structure made from living, rootable, live-cut, woody plant material branches, bare root, or container plant stock in conjunction with rock, geosynthetics, geogrids, and/or geocomposites.

The VRSS system is useful for the immediate repair or prevention of deeper failures providing a structurally sound system with soil reinforcement, drainage and erosion control typically on steepened slope sites where space is limited.



## Components of a VRSS:

### Hard Armor Founda- tion

- Gabions
- Articulating Block
- Ajacks

### Geosynthetic Rein- forcement

- Primary Reinforce-  
ment-Geogrids such  
as Miragrid or Tensar  
BX series
- Secondary Reinforce-  
ment-Geogrids such  
as BX1100 or Tencate  
Miramesh

### Facing Elements

- Turf Reinforcement  
Mat
- Biodegradable ECB
- Tencate Miramesh

### Vegetation Types

- Native Seed Mix
- Live stake Cuttings
- Bare root plants
- Plant Plugs
- Natural vegetation

**Ask your local ASP  
Representative for  
more information.**

## Vegetated Reinforced Soil Slope

