

Hand Built Bank Stabilization: A Creek Less Muddy.



Background

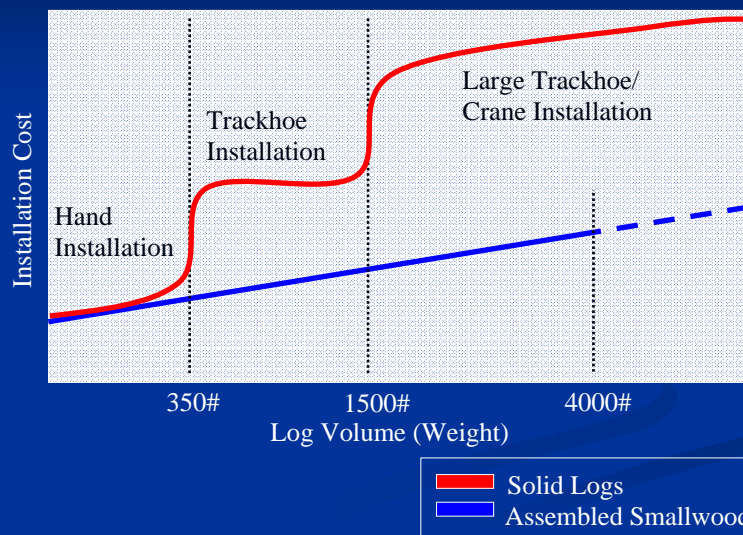
- Hand Built Habitat – The ELWd[®] Concept
- Smallwood Assembled Log Advantages
 - Difficult Access
 - Budget Limited
- Stream Restoration – Typical Installations
- Enabling Technology – What can you dream up

Enabling Technologies

- What would you build
 - Lego® Bricks
 - Tinker Toy® Pieces
- Allow for Imagination and Creativity to take over



Cost Versus Volume



Green Weight Comparisons

- 8 Foot X 12 Inch Dia. Log = 350 pounds
 - Results in one Small Log in the creek
- 24 Foot X 8 Inch Dia. Pole = 325 Pounds
 - Creates one 24 foot x 24inch Dia. ELWd[®] log
 - Equals 2600 Pounds of wood
 - Holds 1325 Pounds of Rock/Soil Mix
 - Results in a 3925 Pound log in the creek

Opportunities / Ideas

- Soft Solutions
- Multi-Tier Organic “Rip-Rap”
 - Solidify Toe of Bank
 - Plant With Vegetation to Knit the Bank Together
- Current Deflector / Channel Routing
- Outfall Protection



Mud Creek

- 17 ELWd[®] Structures
- 7 Bank Stabilization Sites



- Tamarack Resort
- Cascade High School

Before and After



Mud Creek

- No excavation or site disturbance
- Nothing but tracks in the grass



- Tamarack Resort
- Cascade High School

McKay Creek

- 3 ELWd[®] Structures
- 10 Pole = 5700lb. Log



- COIC
- Heart of Oregon

Bear Creek

- Terraced Bioengineered Slope Stabilization
- Nurse logs



- City of Redmond
- CDM

Mt. Scot Creek

- 13 ELWd[®] Structures
- Mix of Solid LWD and ELWd[®] Structures



134th St Project



- 9 ELWd[®] Structures
- Outfall Protection on Salmon Cr. and one of its Tributaries

Golden Gardens Park

- 150 Linear Feet of Bank Protection
- 23 ELWd[®] Structures



- City of Seattle Volunteer Program
- TREK Env. Edu. Program

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