

Department of Interior
U.S. FISH AND WILDLIFE SERVICE

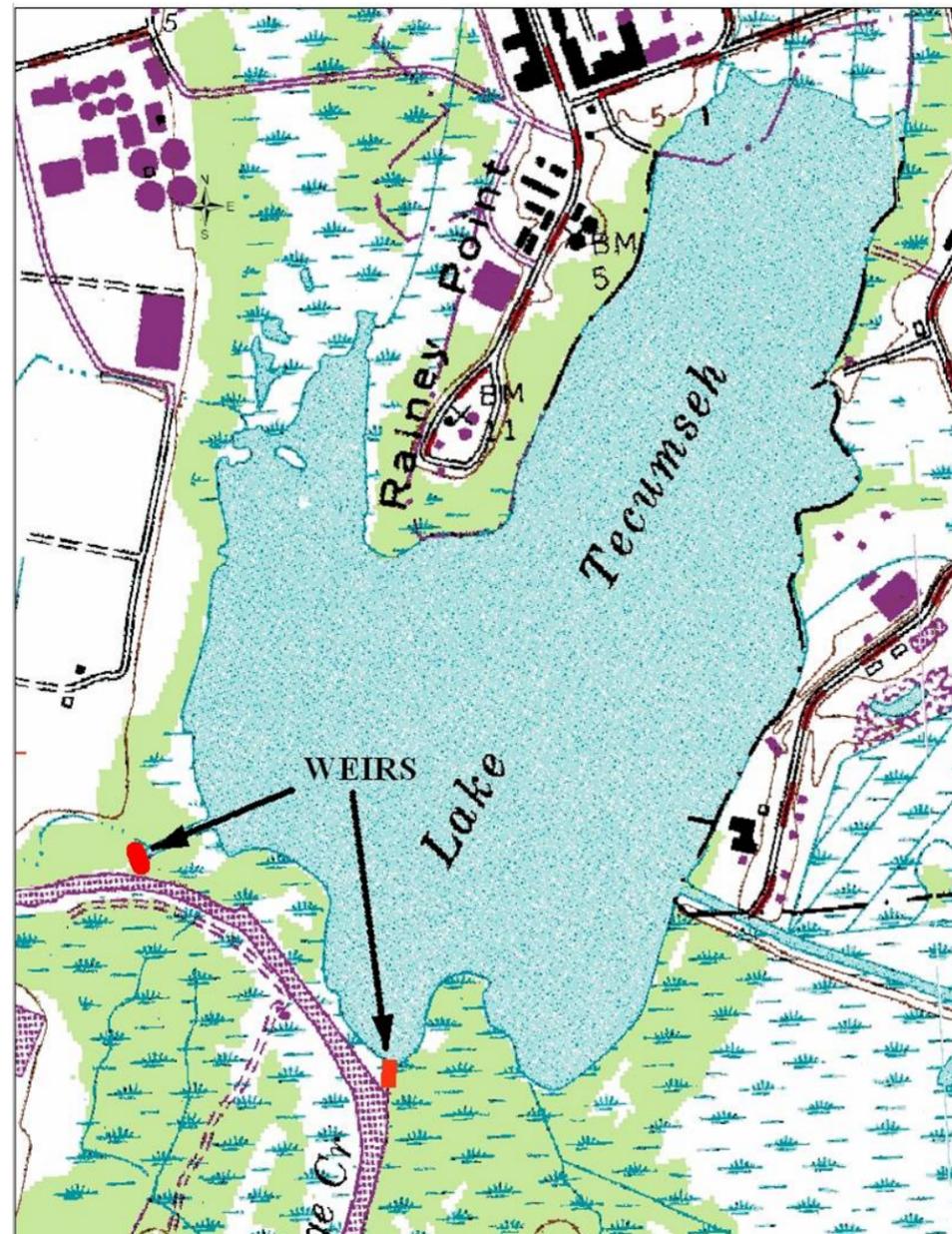
Plans of Proposed
LAKE TECUMSEH WEIRS PROJECT



Project Location

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Date: February 2008

Plans Prepared By:

U.S. Fish and Wildlife Service
 6669 Short Lane
 Gloucester, Virginia 23061
 (804) 693-6694

Project Manager:

Willard Smith, USFWS
 804-693-6694 x124

Property Owners:

Back Bay National Wildlife Refuge
 Hampton Roads Sanitation District
 Oceana Naval Base Dam Neck Annex
 Lago Mar Associates

Location:

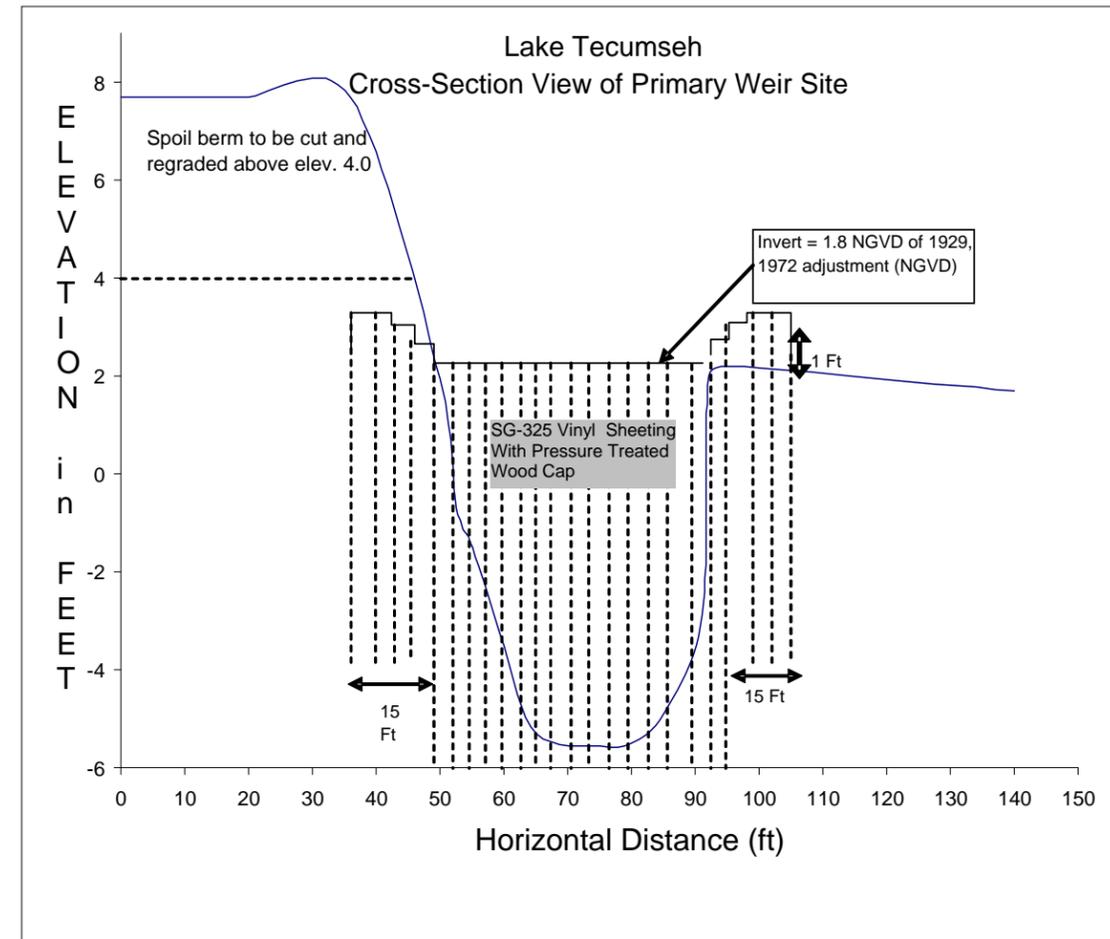
Virginia Beach, Virginia

Funding and Assistance Provided By:
 U.S. Fish and Wildlife Service Partners For Fish and
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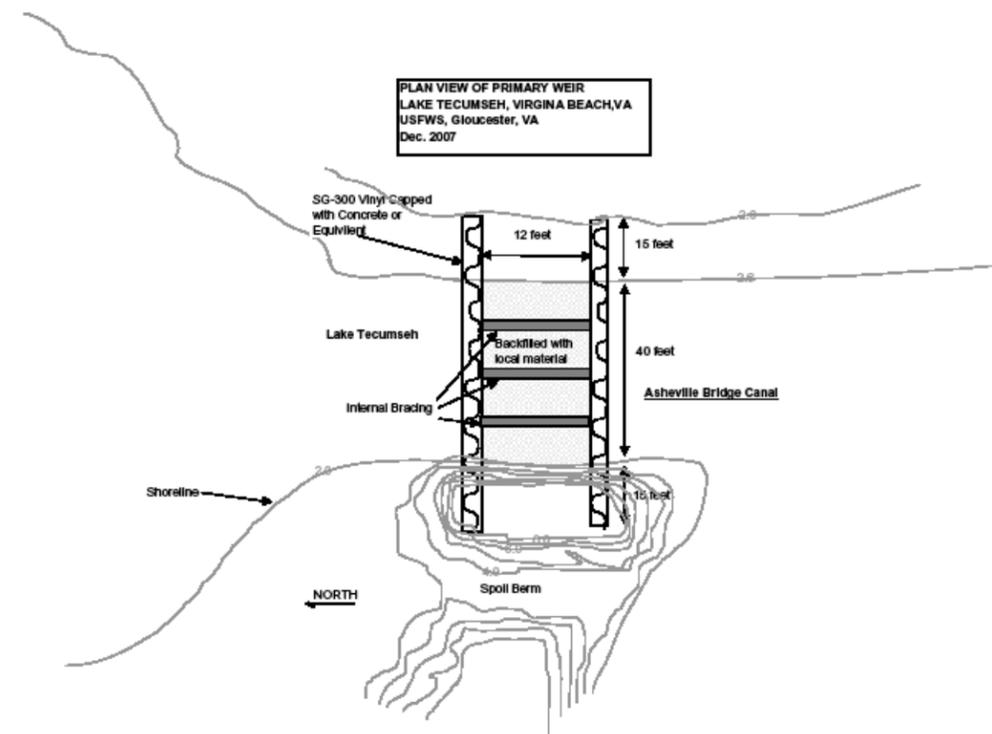
Revisions

Date	By	Description
Feb08		50% plans
June08	Smith	90%
Feb09	Smith	100% Final

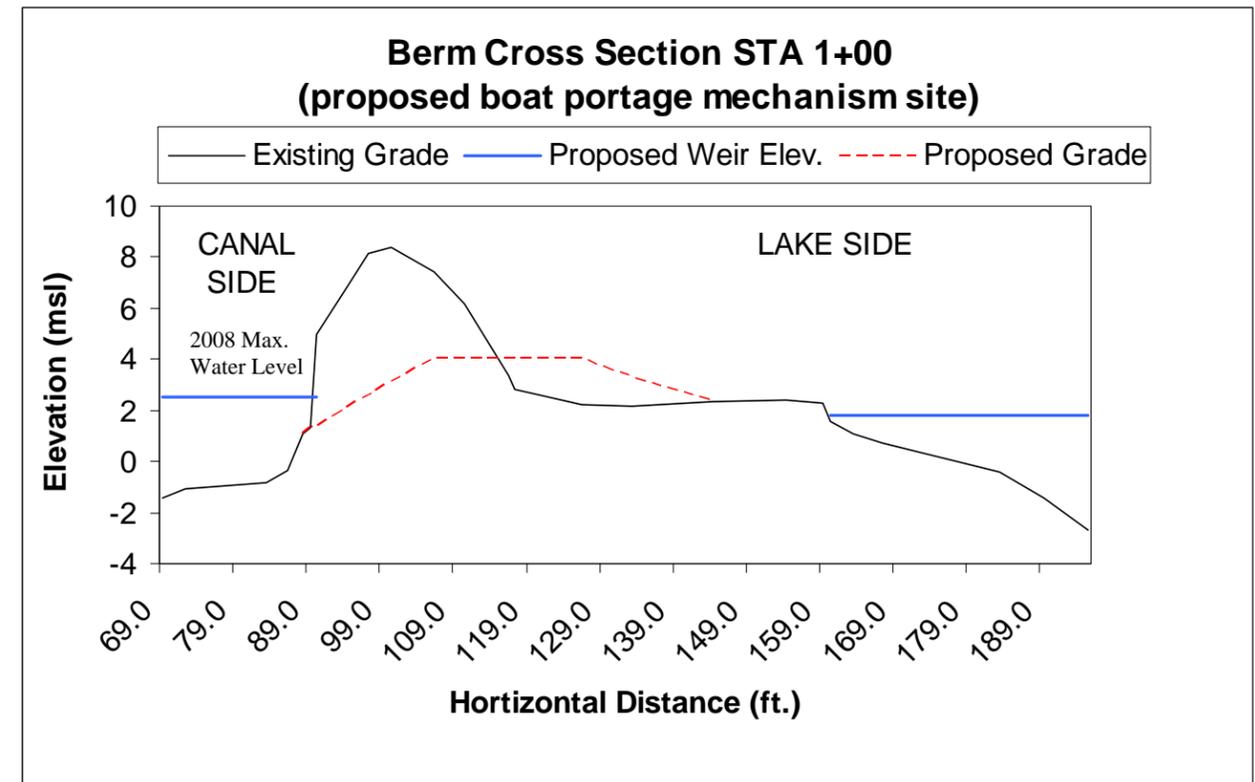
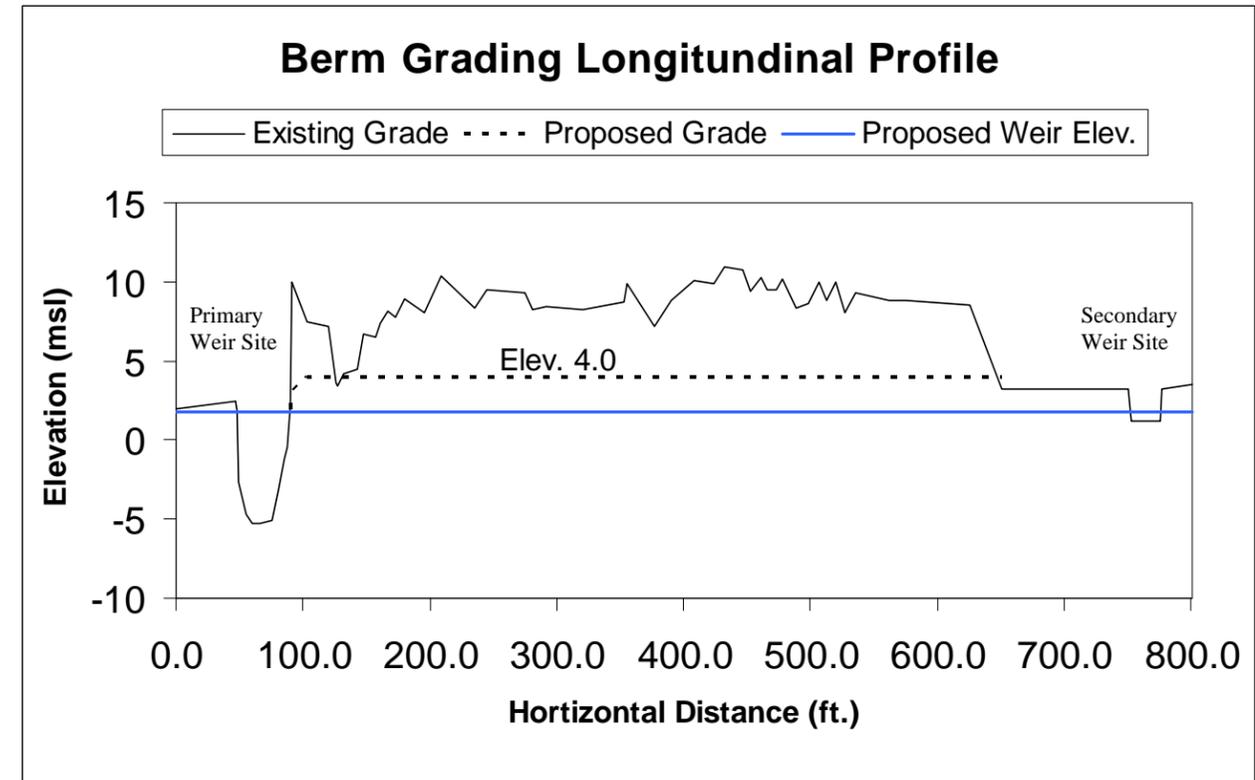
WEIR TYPICAL SECTION and PLAN VIEW



Lake Tecumseh Conceptual View

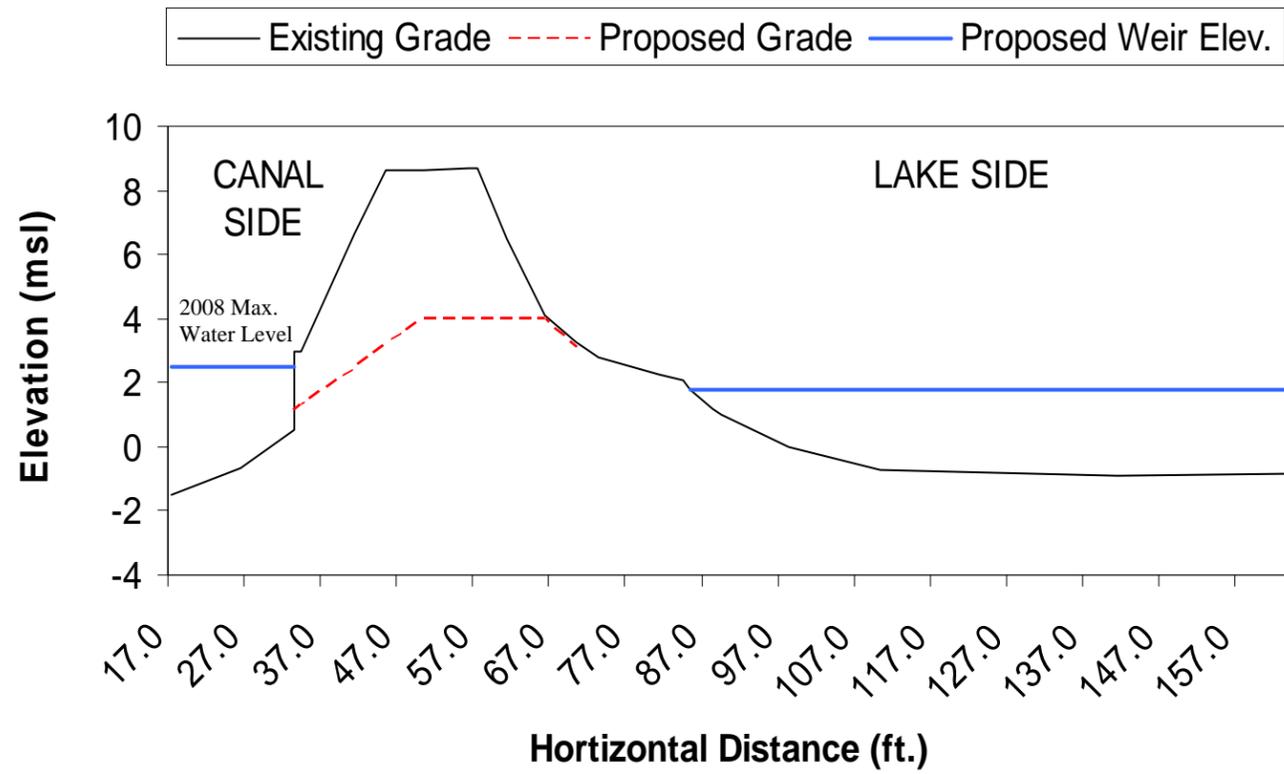


BERM REHABILITATION TYPICAL SECTIONS, PLAN VIEW and PROFILE

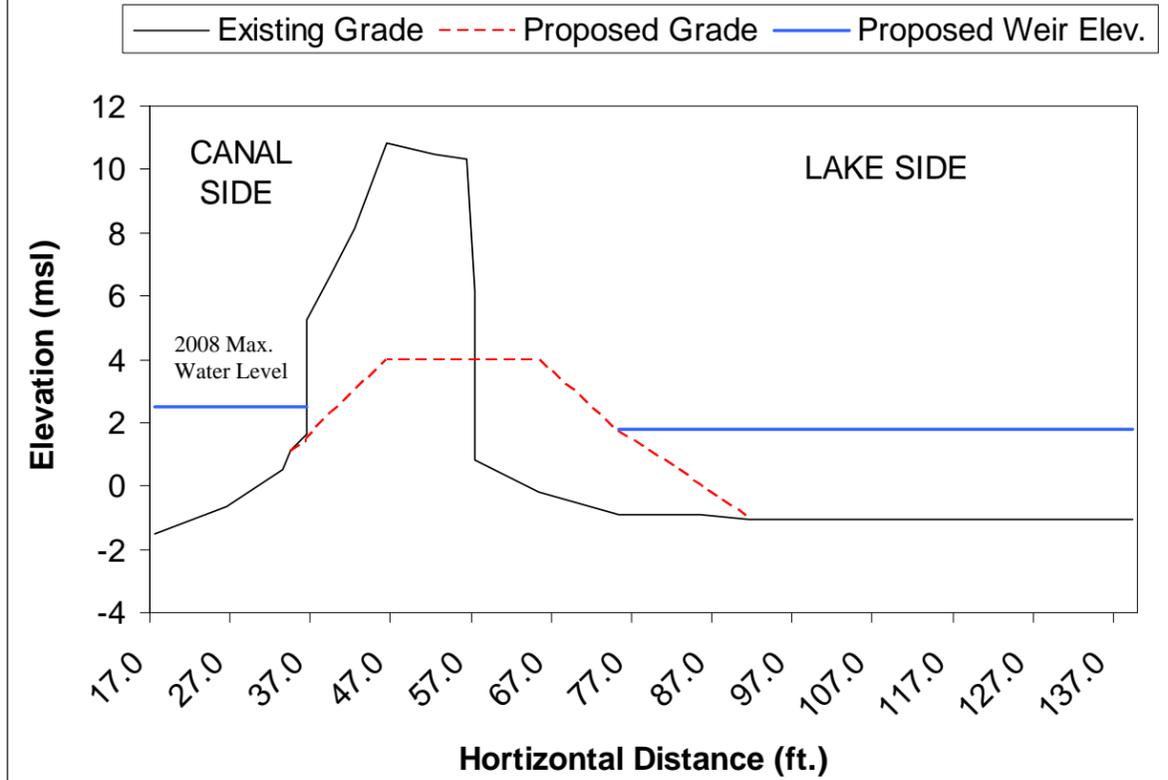


BERM REHABILITATION TYPICAL SECTIONS, PLAN VIEW and PROFILE (continued)

Berm Cross Section STA 2+02

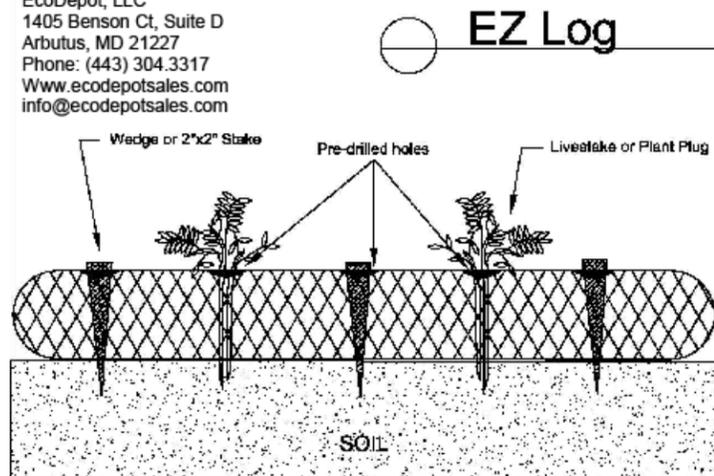


Berm Cross Section STA 3+50.6



BERM STABILIZATION: TOE PROTECTION and SLOPE STABILIZATION DETAILS

AVAILABLE FROM:
EcoDepot, LLC
1405 Benson Ct, Suite D
Arbutus, MD 21227
Phone: (443) 304.3317
www.ecodepotsales.com
info@ecodepotsales.com

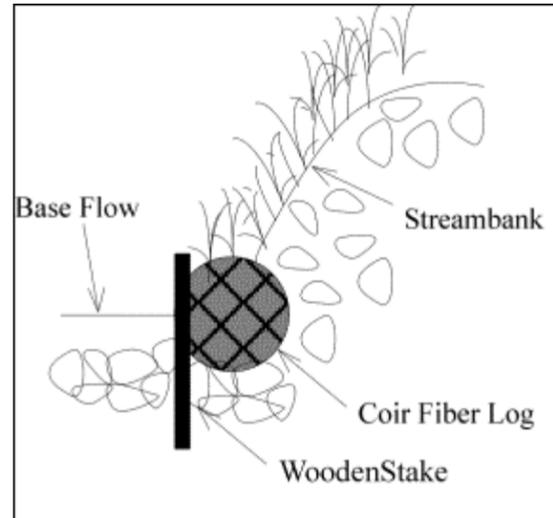


INSTALLATION INSTRUCTIONS:

1. DIG TRENCH IF NEEDED AND PLACE EZ LOG IN DESIRED LOCATION ACCORDING TO STANDARD COIR LOG INSTALLATION SPECIFICATIONS.
2. REMOVE CARDBOARD INSERT FROM PRE-DRILLED SLOT.
3. INSTALL WOODEN WEDGE OR PLANT MATERIAL IN PRE-DRILLED SLOTS; LENGTH OF STAKE SHOULD BE BASED ON SOIL TYPE

PRODUCT NOTES:

1. EZ LOGS ARE MODIFIED COIR LOGS WITH PRE-DRILLED SLOTS FOR WOODEN STAKES OR VEGETATION PLACEMENT.
2. PRE-DRILLED SLOTS ARE APPROXIMATELY 2' APART AND ARE APPROXIMATELY 1.25" IN DIAMETER.
3. WOODEN WEDGES OR 2"x2" WOODEN STAKES ARE RECOMMENDED FOR STABILIZATION.
4. LIVE STAKES OR PLANT PLUGS CAN BE USED TO PROMOTE IDEAL ROOTING THROUGH THE EZ LOG.
5. AVAILABLE DIAMETERS: 6", 8", 12", 16" & 20".
6. AVAILABLE LENGTHS 10' & 20'.



BERM REHABILITATION PLANTING PLAN

Entire planting zone above elev. 2.0 to be initially seeded and mulched with erosion stabilization mix consisting of 50% annual ryegrass, 25% perennial ryegrass, 15% ladino clover, 10% orchardgrass at the rate of 60 pounds per acre.

Planting specifications include the species listed below within the appropriate zone. Suitable on-site materials within regraded zones to be transplanted. Boat Portage Mechanism limits to planted with erosion seed mix only.

Zones	Species	Density#	Spacing	Area	Total
A (Toe of bank)	Black willow (live stakes)		2 ft. apart	4250 lf	1062
B (Side Slopes)	Black willow (live stakes)	1200 per acre	6 ft. on center	17,000 sf	520
	Southern Waxmyrtle	400 per acre	10 ft. on center		170
	Common Alder				
C (Top Of Berm)	Southern Waxmyrtle	400 per acre	10 ft. on center	15,000 sf	154
	Possumhaw Viburnum				
	Shadbush				

Typical Berm Top of Bank and Side Slope

