

# Hangman Creek Stream Bank Stabilization

“River Mile 17”

Began in 2015 with concept/designs





# **Tom Coleman, Restoration Engineering, LLC**

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# February 2017 - 10K CFS Runoff Event



**Mobilized approximately 16,000 tons of stream bank material from the site... In one event!!!**



**UNDER CUTTING**

# HEAD CUTTING



A photograph of a man in a camouflage jacket and sunglasses standing on a muddy bank next to a river. The bank shows signs of erosion with exposed roots and debris. A speech bubble above him contains the text "Now what?!".

**Now what?!**



**Phase 1 Project**  
**Started Construction:**  
**September 2018**

**Rock Toe Protection**

**Coir Erosion Fabric**







## Woody Revetment Bank



**Seeds In**  
PLANTS OF THE WEST  
NORTH IDAHO PROCESS

CHEVROLET



# Planting









**BEFORE**

# Completed Construction: July 2019

Log Jam Revetment Bank

**AFTER**





# Phase 1 - Project Metrics

## Funding Sources

Wa. Dept. of Ecology:

Non-Point Source - \$144K

SCD Assessment:

Cash Match to NPS - \$48K

Wa. State Cons. Commission:

2019 Implementation - \$43K

2019 NRI- \$60K

NE Area Engineering - \$44K

2020 Implementation - \$30K

Landowner Match: \$17.5K

## On-the-ground Impacts

3,200 L.F. of Bank Protection

75' Continuous Buffer Width


2,400 Native Tree/Shrub Plantings

3,150 Native Willow Cuttings

8+ Acres of Native Grass Mix

3,125' of Irrigation

**Total Phase 1 Project Investment: \$386.5K**



**Phase 2 Project**  
**Started Construction:**  
**June 2022**











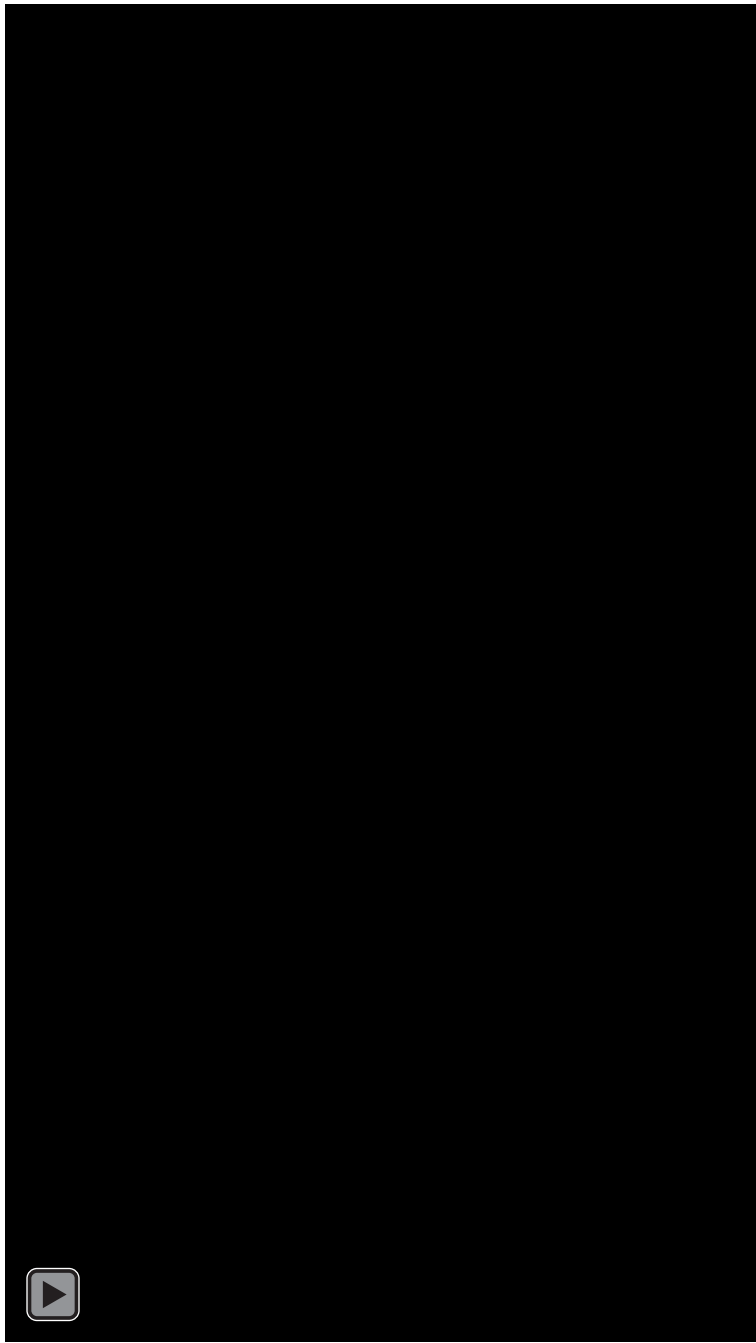


















**Bank 1  
Before**







**Bank 1  
After**

# Bank 2 Before



# Bank 2 After



# Bank 3 Before



# Bank 3 After



# Phase 2 - Project Metrics

## Funding Sources

Wa. Dept. of Ecology:

Non-Point Source - \$250K

Terry Husseman Grant - \$50K

Wa. State Cons. Commission:

2021 NRI/DIP- \$65K

NE Area Engineering - \$22K

2022 VSP - \$40K

Landowner Match: \$15K

## On-the-ground Impacts

2,200 L.F. of Bank Protection

75' Continuous Buffer Width

3,000+ Native Woody Plantings

3,500+ Native Willow Cuttings

6+ Acres of Native Grass Mix

2,825' of Irrigation

**Total Phase 2 Project Investment: \$402K**

**Total Investment cost for Phase 1 & 2: \$788.5K**

# Questions?

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