Upper Carlson Floodplain Restoration Project
2014 Construction Photos
Tree and Levee Removal
Toe Rock Removal

1600 feet of deep toe rock removed
Toe Rock Removal

Attempted isolation of in water work area
Toe Rock Removal

Effective in only lowest velocity area
Deep, fairly fast flow throughout most of the site made containment very difficult. Several heavy curtains destroyed in two days of attempted isolation.
Worked without isolation to remove all toe rock within negotiated permit conditions for Water Quality.
Set Back Facility

Predicted Response

10 yrs
20 yrs
50 yrs

Buried Rock Revetment

Engineered Log Jams

Predicted Response
Engineered Log Jams

Pile driving and drilling
Engineered Log Jams

Log placement
Engineered Log Jams

Log placement
Engineered Log Jams

Log placement
Engineered Log Jams
Buried Setback - Rock Revetment
Buried Setback - Rock Revetment
Response To Date

As-built conditions – Oct 1, 2014
Response To Date

Current conditions – January 29th 2015

So far......several small and one large (10 year) flood event.

• Erosion rates/wood recruitment as expected
• Assessing potential for any unanticipated flood impacts
Restored Natural Processes

&

EDGE HABITAT !!!!
Revegetation Efforts in progress
Project Sponsors

• FloodPlains By Design - Coordinated Investment for Puget Sound Floodplains Initiative sponsored by The Nature Conservancy and administered by the Washington Department of Ecology;

• Washington State Salmon Recovery Funding Board and Puget Sound Acquisition and Restoration via Washington Resource Conservation Office and Puget Sound Partnership;

• National Oceanic and Atmospheric Administration via The Nature Conservancy;

• U.S. Environmental Protection Agency via the Snoqualmie Tribe;

• King County Flood Control District via Cooperative Watershed Management Grant; and

• King County Department of Natural Resources and Parks.