

Startup Levee Rehab Project 2005

DAMAGE: On December 11th, 2004, a 5 year frequency flood event in the Skykomish River near the community of Startup peaked at approximately 59,600 cfs (as measured at USGS gage #12134500, Skykomish River near Gold Bar at 0230 on 12/11/04). This event resulted in levee damage due to erosion along the right bank of the river at about River Mile 17.1. Soon thereafter, Snohomish County requested assistance from the Corps of Engineers to restore this portion of the levee through the PL 84-99 program. On January 18, 2005 another flood event (64,800 cfs at 1515 on 01/18/2005) caused further damage to the levee section and initiated a Corps flood fight effort at this location. The flood fight shored up the weakened structure with Class VI riprap and prevented complete failure of the project. The damage to the structure is approximately 200ft x 20ft x 3ft of continuous erosion damage to the training levee between Stations 16+50 and 18+50. The section of levee that was repaired in 2002 as part of a PL84-99 project (Station 18+50 to 25+18) performed well in the flood and was not damaged during either flood event. Fifteen landowners, Reese Road, and the Burlington Northern Railroad are threatened by further erosion of the levee in its current condition. An emergency repair is needed to ensure the integrity of the project.

REPAIR: The repair fixed the 200ft of erosion by placing class IV riprap and re-enforce with a rock toe. The January 2005 flood fight repair was re-sloped and a 6ft high x 12ft wide toe was be constructed. Total Cost of Repair was \$108,000



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