

## Integrated Greenhorn Creek Project

### DESCRIPTION:

In response to landowner requests for bank and streambed stabilization work on Greenhorn Creek, Plumas Corporation gathered funds from a variety of sources to complete a comprehensive geomorphic survey of the entire reach of Greenhorn Creek through American Valley. The survey identified isolated areas of instability, and resulted in a broad prioritized approach to stabilization throughout the reach. In 2011, a 390' segment of bank straddling both Plumas National Forest and private lands was stabilized using boulder vanes, with funding provided by the Plumas County Resource Advisory Committee (RAC). In 2014, two projects were completed with funding from the Sierra Nevada Conservancy (SNC): 675 feet of bank were stabilized above Quincy Junction Road with seven boulder vanes, and a fish passage/bed stabilization structure was installed at a fish-barrier irrigation dam. The fish passage structure involved 1,200 cubic yards of rock to construct 300' of streambed riffle/pool sequence at a 2.9% slope, and rocking the incised floodplain. A second phase of construction was implemented in 2015 stabilizing another 220 feet of bank and constructing a second fish passage structure on another impassable irrigation dam upstream and downstream of the Highway 70 bridge crossing, respectively. The structure involved 2,000 cubic yards of rock and 3,780 cubic yards of dirt to construct a series of riffles and pools with a rocked floodplain for overbank flows along a 240 foot reach at a 3% slope.

### SPONSORS:

STATE: Sierra Nevada Conservancy-Proposition 84, CalTrans; FEDERAL: Title III funds via Plumas County Board of Supervisors, Secure Rural Schools Title II funds; LOCAL: Plumas County Fish & Game Commission; PRIVATE: Shea Ranch, CC Meyers (donation of rock)

### PROJECT RESULTS:

Project components completed to date are performing as expected. Monitoring of this project will continue through 2016.

### PROJECT REPORTS (IF AVAILABLE):

Greenhorn PNF/Reid Bank Stabilization Project Final Report

[http://www.weebly.com/uploads/4/0/5/5/40554561/greenhorn\\_pnfreidbank\\_finalreportrac.pdf](http://www.weebly.com/uploads/4/0/5/5/40554561/greenhorn_pnfreidbank_finalreportrac.pdf)

2015 Project Construction Photos

[http://www.weebly.com/uploads/4/0/5/5/40554561/2015\\_greenhorn\\_construction\\_photos.pdf](http://www.weebly.com/uploads/4/0/5/5/40554561/2015_greenhorn_construction_photos.pdf)