

Chinook Salmon, Coho and Steelhead Trout comprise a large portion of the Hupa diet and the key to good health



Objectives of Project

 Assess the potential for developing micro-hydro electricity on 7 tributaries within the Reservation

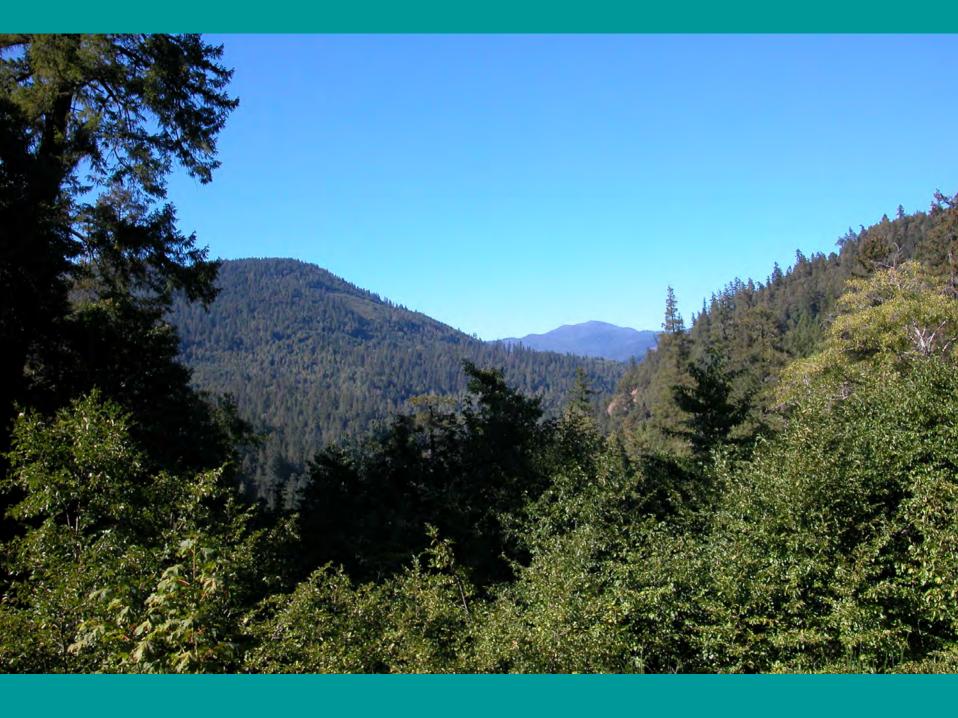
 Assess the potential for economic benefits to the Tribe



Things to evaluate

- Topography of stream course
 -determining head and distance
- Terrain road construction, pipeline
- Stream flow and dynamics power
- Access to creeks maintenance
- Distance of electrical transmission
- Route of electric lines





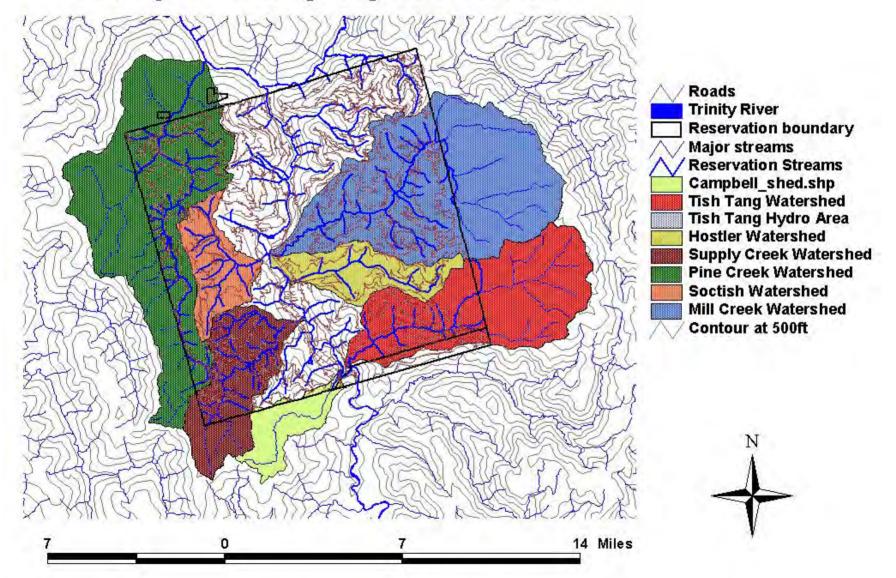




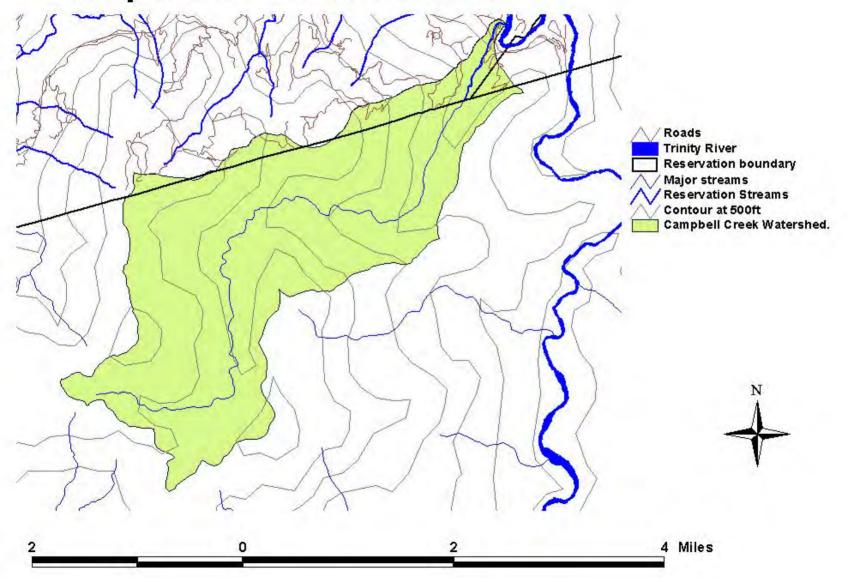
General Criteria

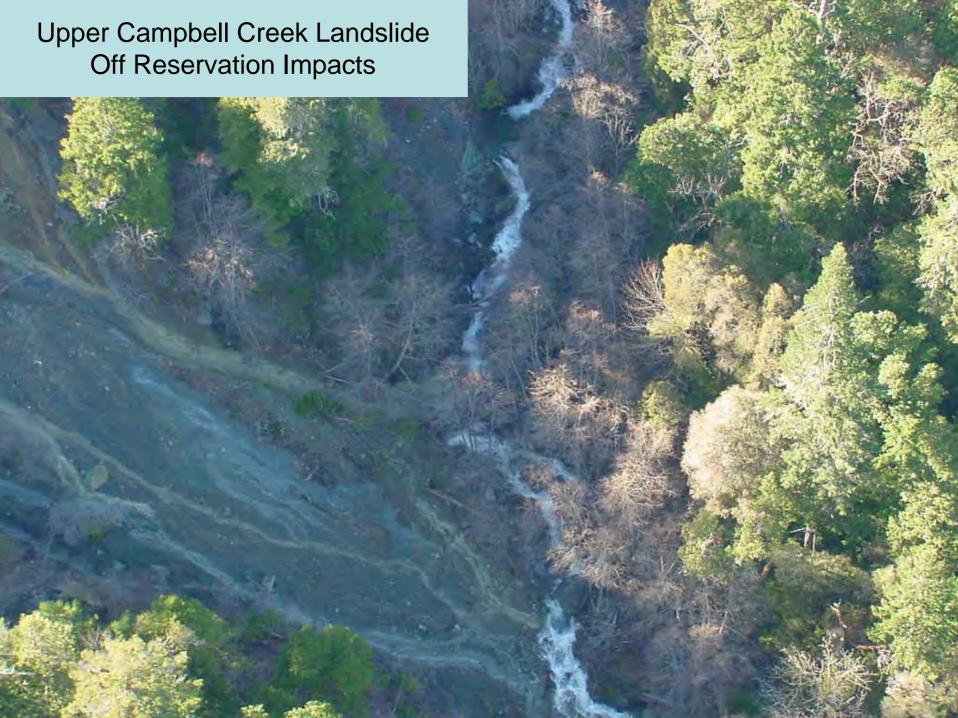
- Low in watershed
- Existing access
- Close to valley
- Stable terrain
- Sufficient stream flow

Hoopa Valley Hydrosheds



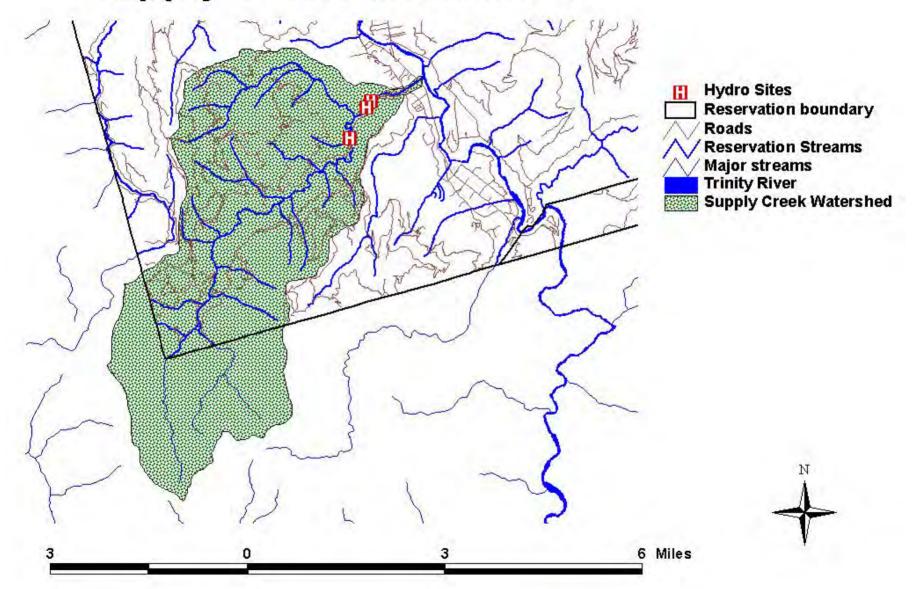
Campbell Creek Watershed



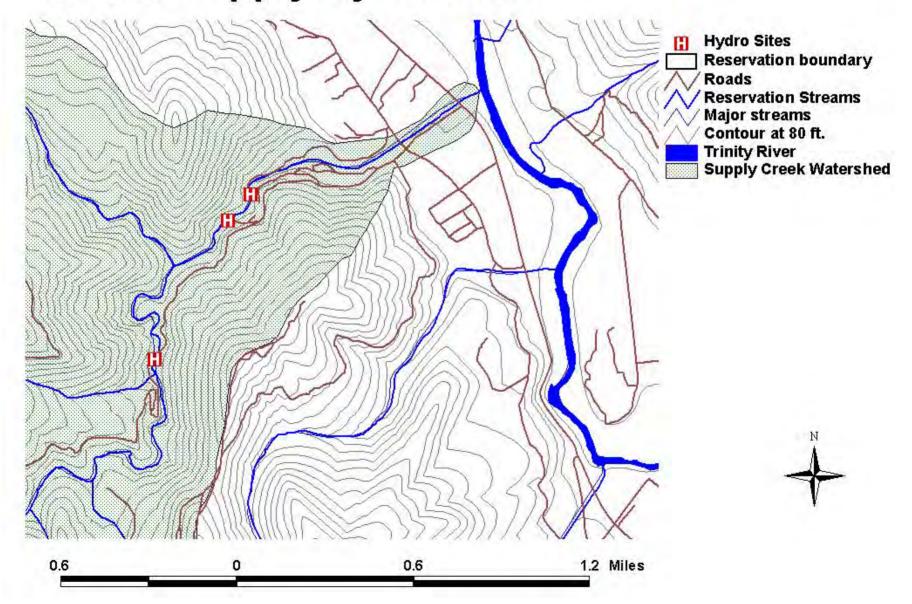




Supply Creek Watertshed



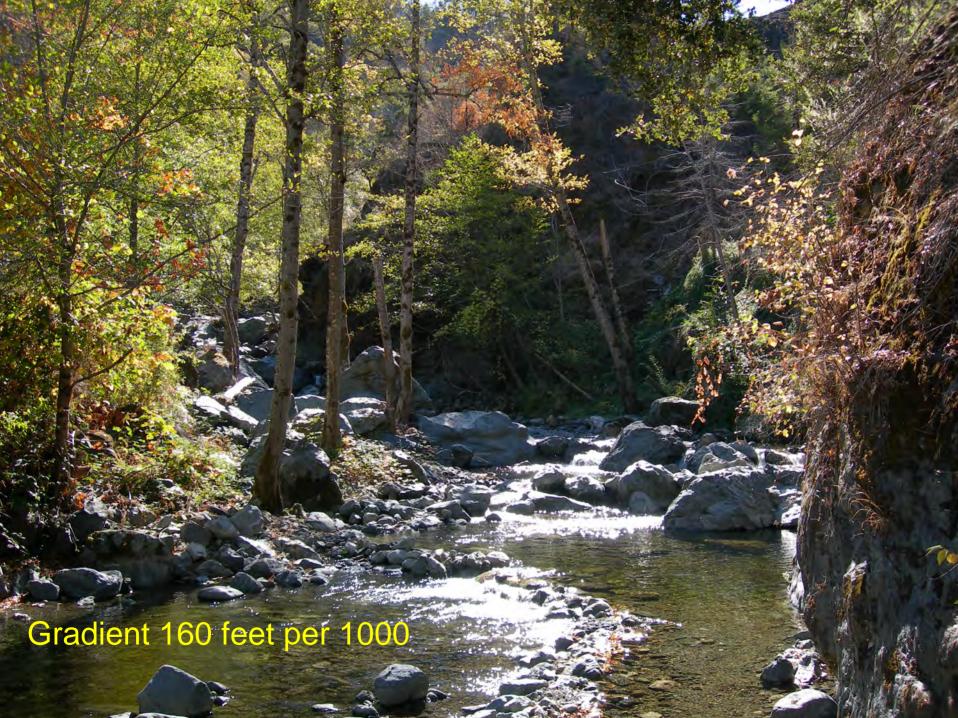
Lower Supply Hydro sites



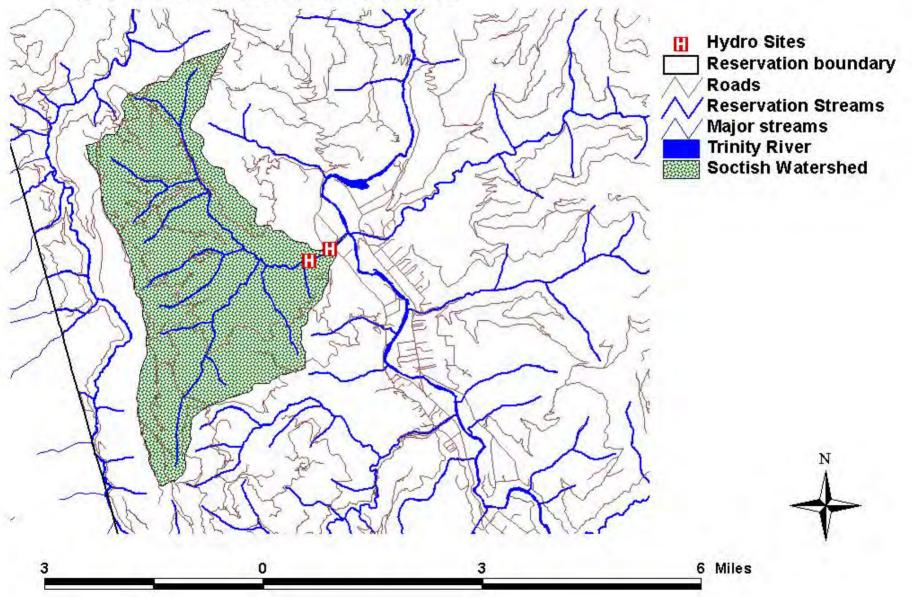




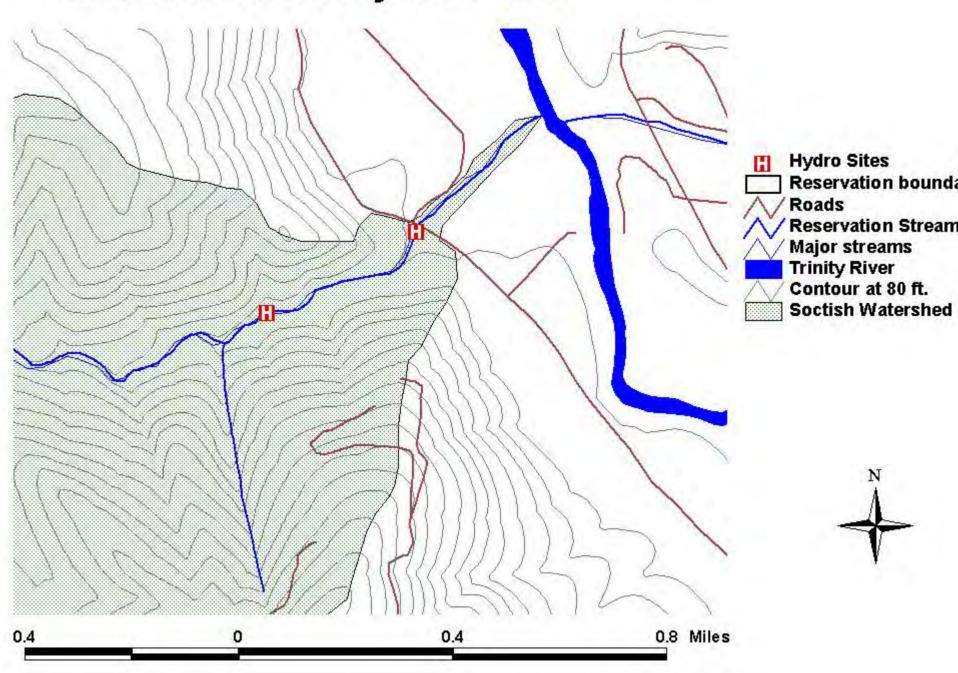




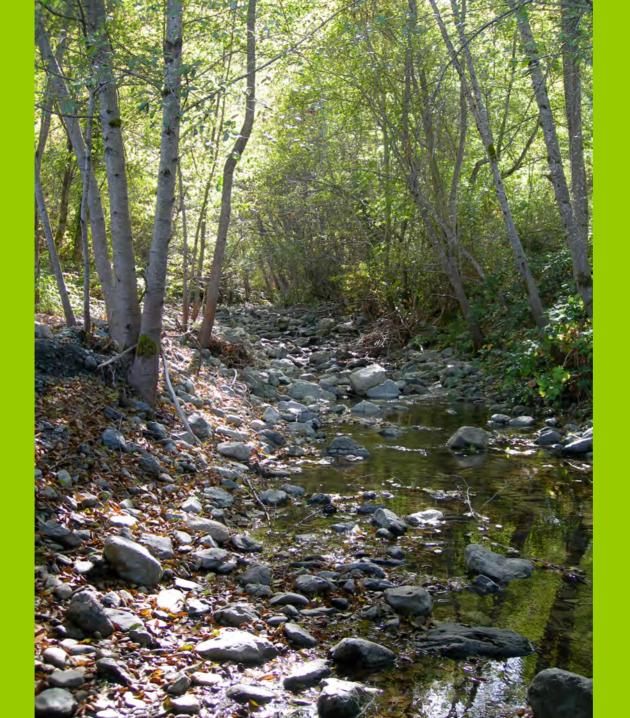
Soctish Watershed



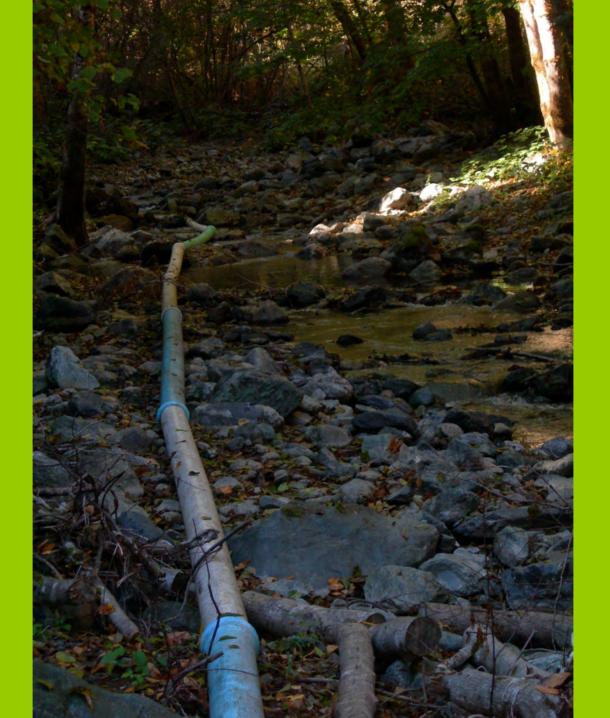
Lower Soctish Hydro Sites

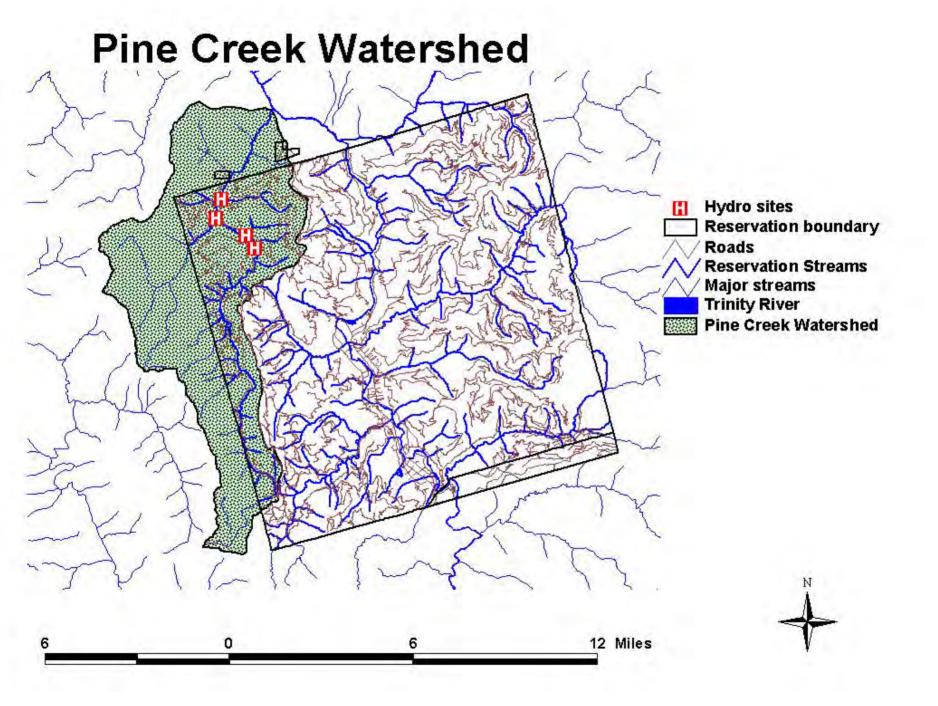




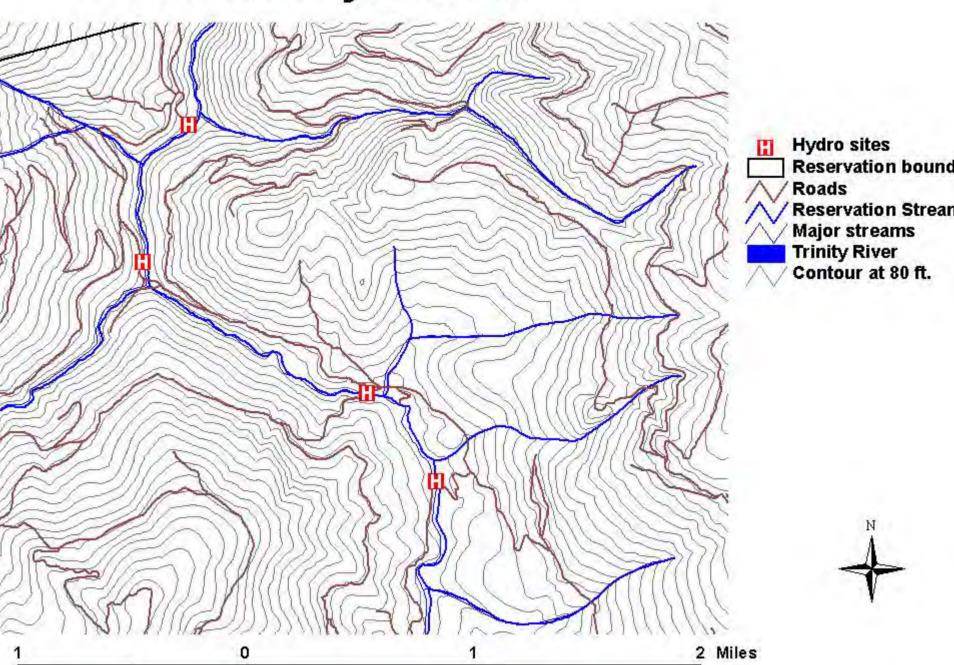








Pine Creek Hydro Sites



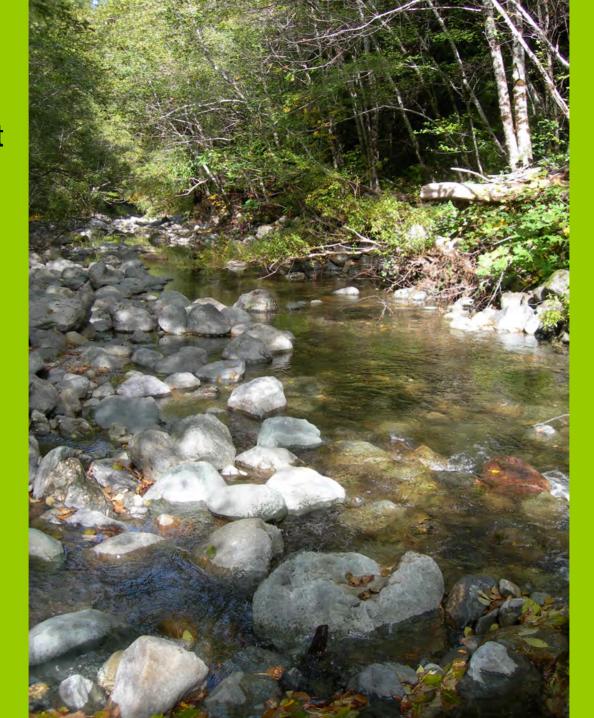








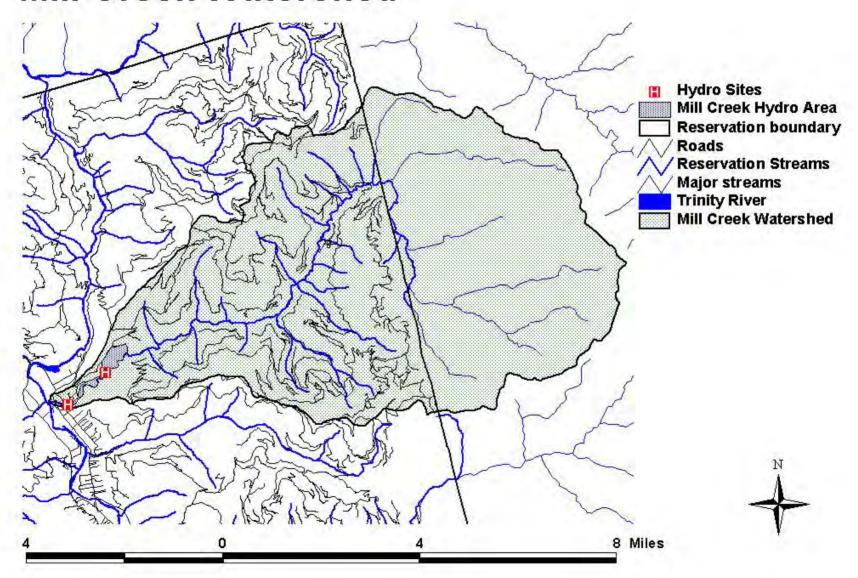
Gradient 80 feet head per 1000 feet of stream



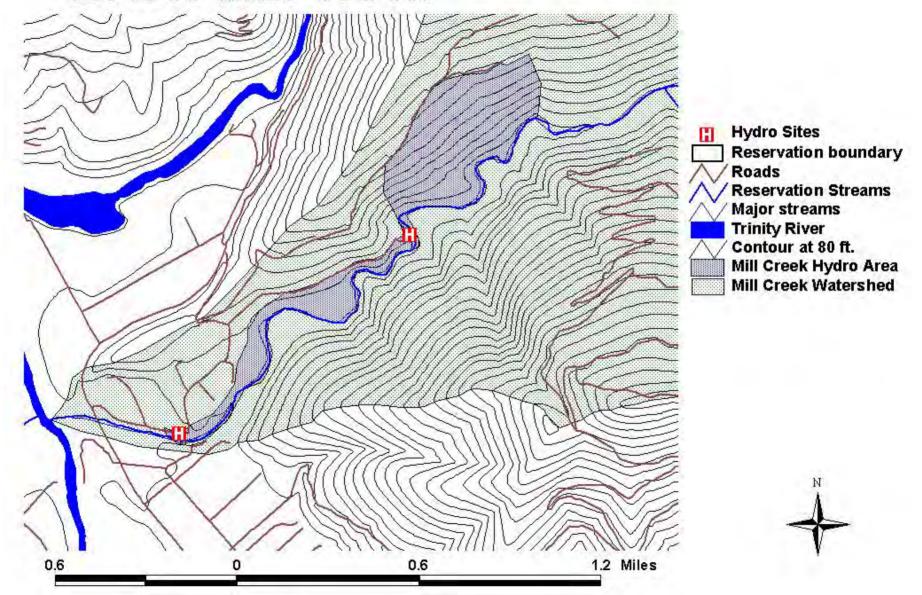


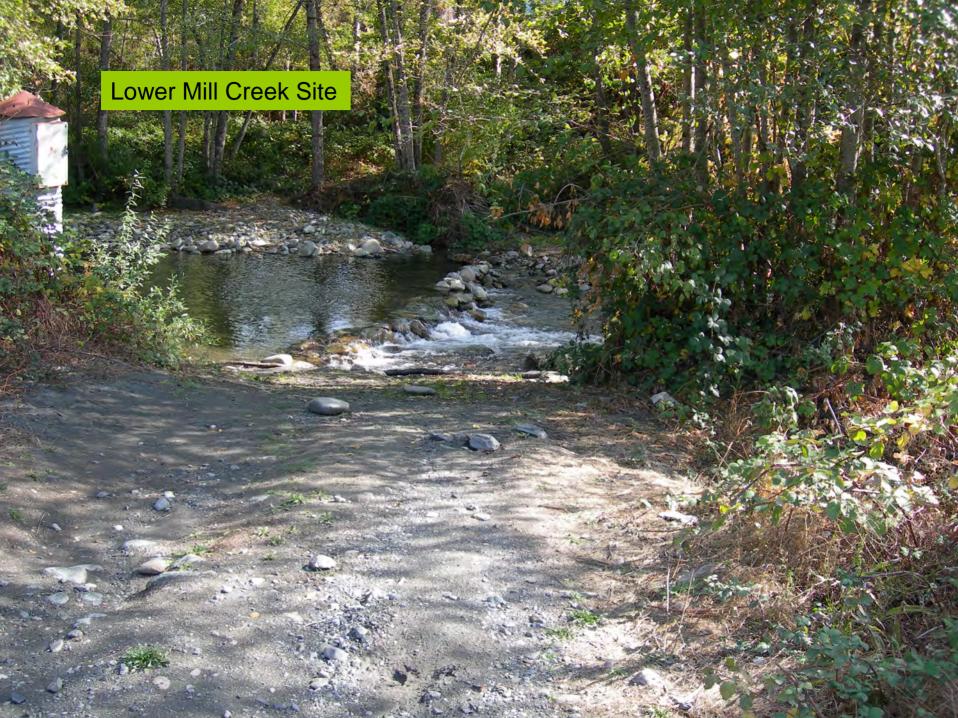


Mill Creek Watershed



Lower Mill Creek









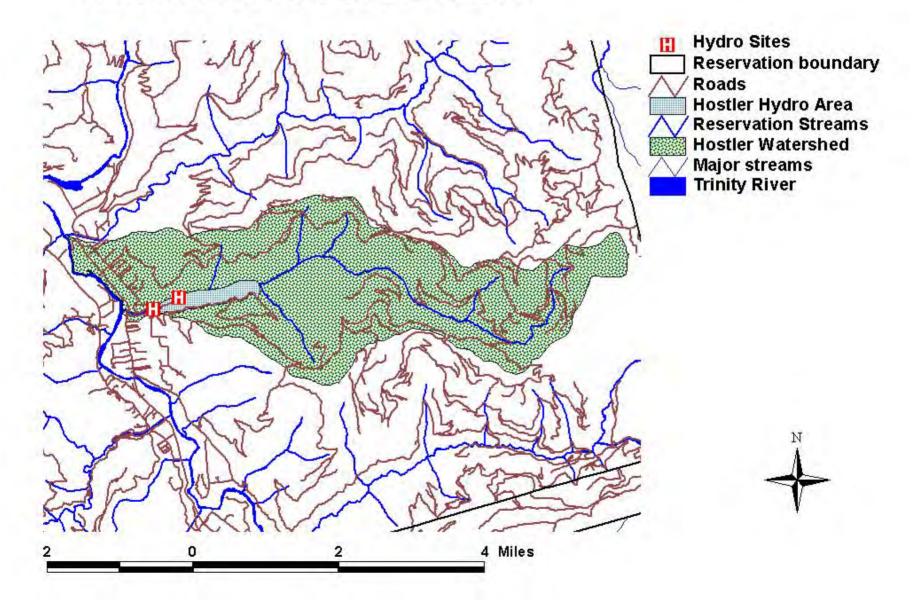




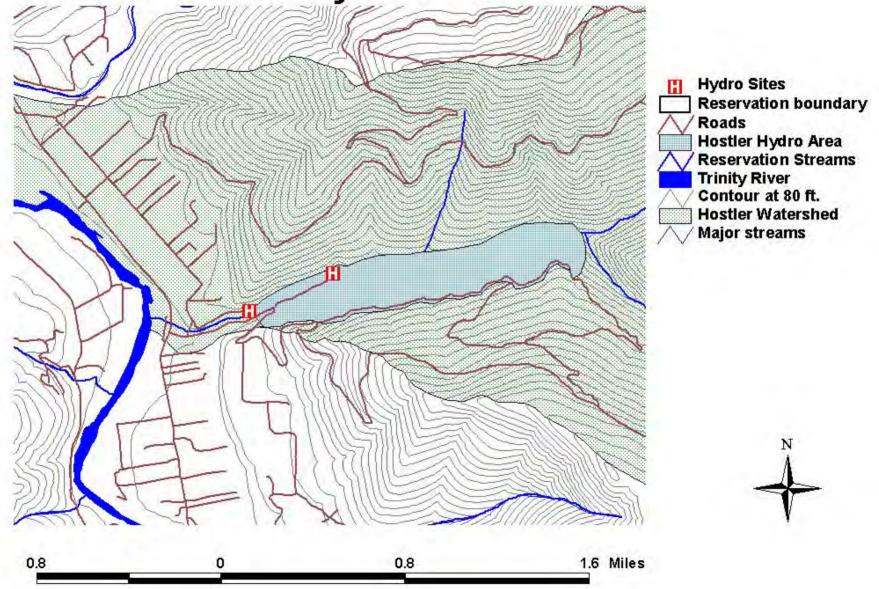




Hostler Creek Watershed

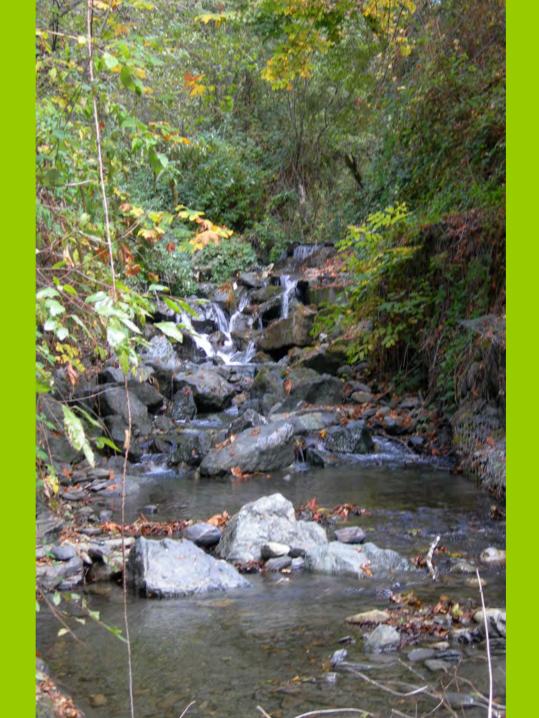


Lower Hostler Hydro Sites

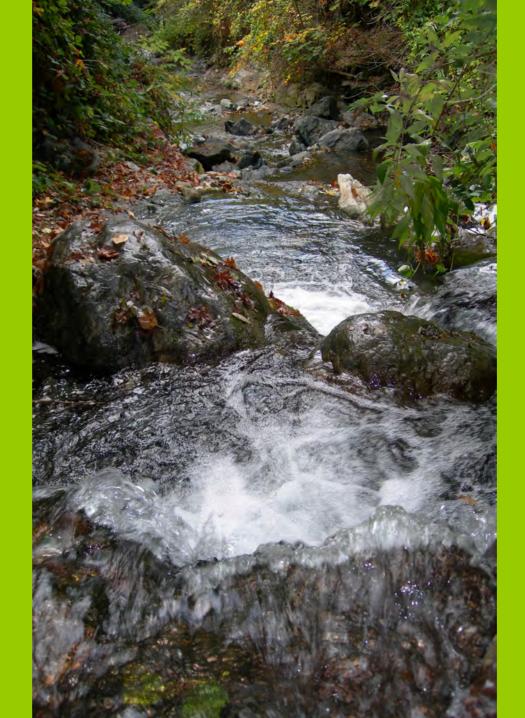




Entrenched Barrier

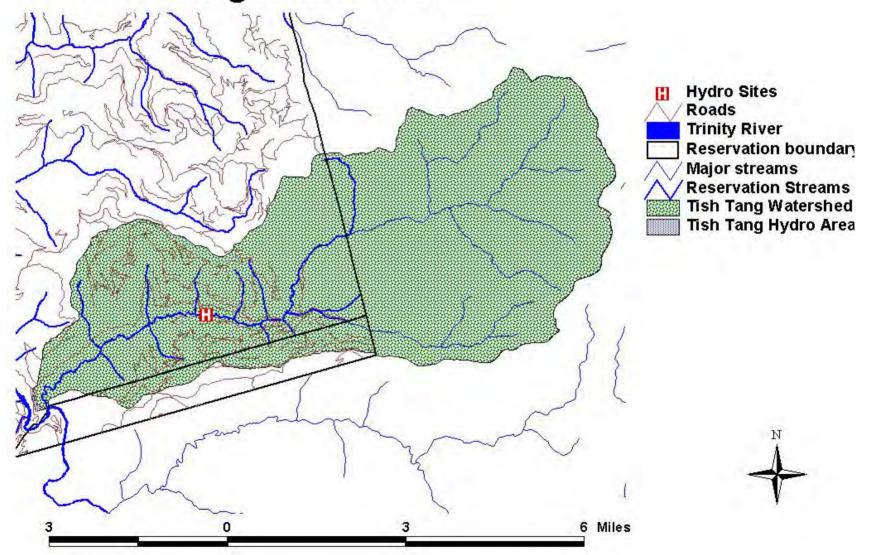


Steep Gradient
Est.160 feet head
per 1000 feet stream





Tish Tang Watershed

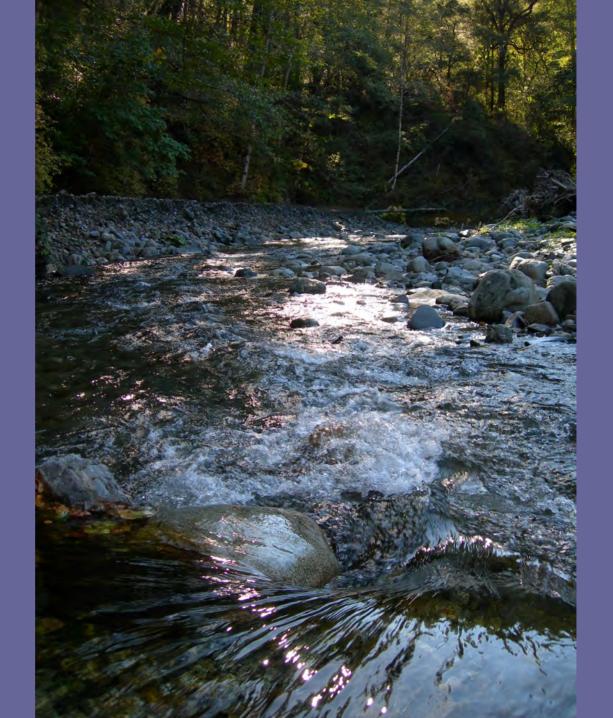


Tish Tang Hydro Sites Hydro Sites Roads **Trinity River** Reservation boundary **Major streams** Contour at 80 ft. **Reservation Streams Tish Tang Watershed** Tish Tang Hydro Area 2 Miles

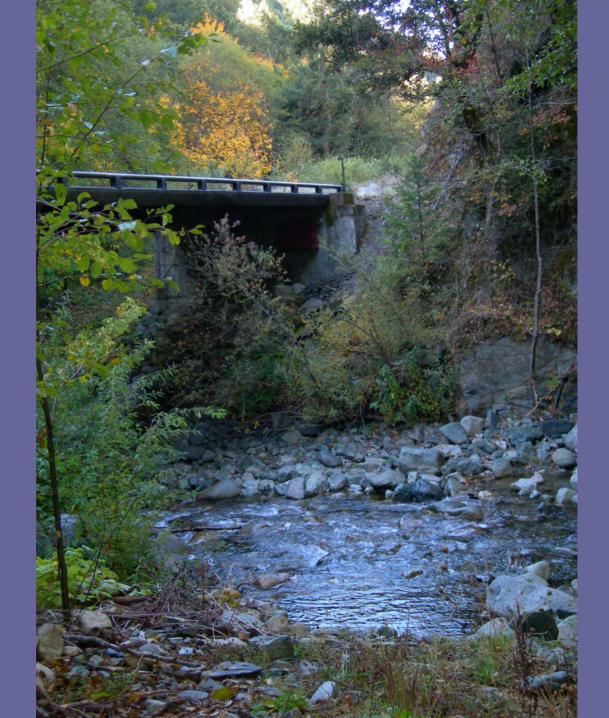




Gradient
80 feet head
per 1000 foot
of stream

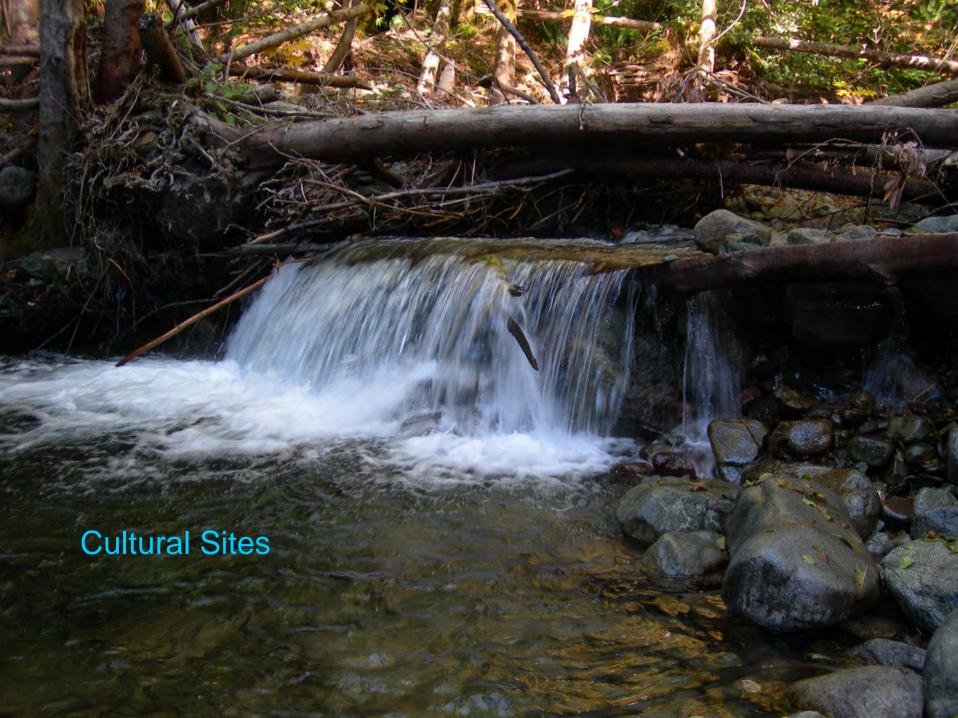


Upper Site









Wrap up

- Do we have potential YES
- Substantial investment YES
- Cost benefit potentially high benefit