

Item #6

Napa River Sediment TMDL



State Water Resources Control Board

October 5, 2010

TMDL



- Adopted September 9, 2009
- TMDL will reduce fine sediment deposition
- Habitat Enhancement Plan

Comments

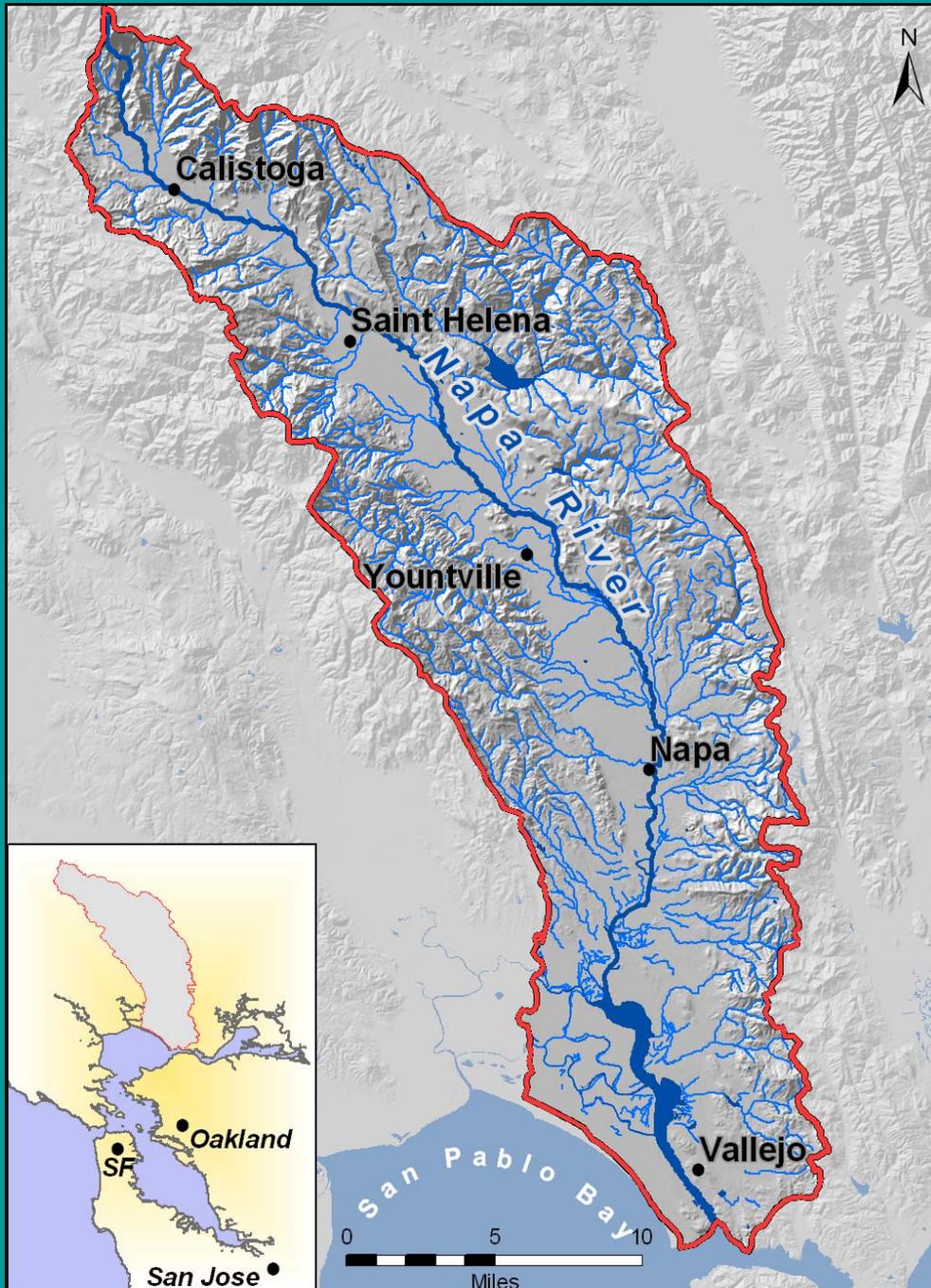
- State Board received 3 comment letters
- EO corrections



Recommendation



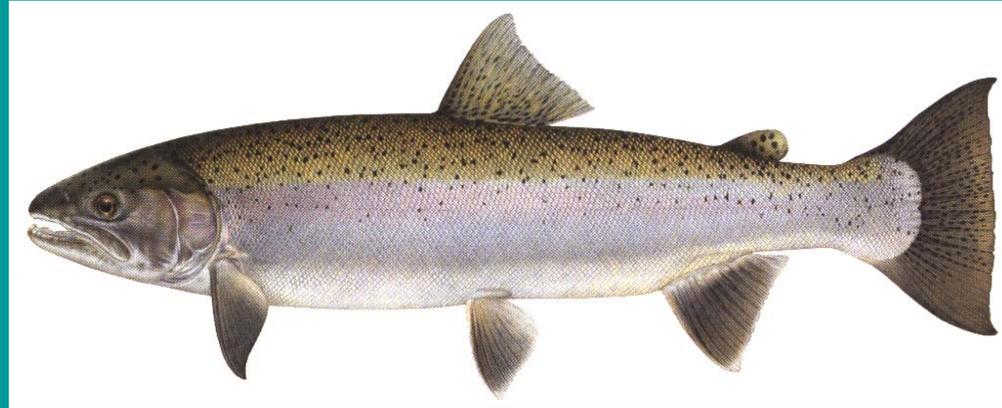
- Approve the Amendment as submitted
- Questions



The Napa River watershed

- 55 miles of river
- Third largest watershed in the Bay Area
- Diverse native fish and wildlife communities
- Regionally significant steelhead and salmon runs

Problems for salmon and steelhead in the Napa River watershed



- Too much fine sediment in the streambed
- Bed and bank erosion in river and lower tributary reaches
- Low flow & high water temperature in dry season
- Many fish migration barriers in tributaries
- Lack of large woody debris in the river and tributaries



Sediment Sources



Natural erosion



Road-related



Vineyard-related



Grazing-related



Sediment Sources (cont.)



Human-caused Bed and Bank Erosion

The Napa River Sediment TMDL

- 125 percent of natural background
- 50 percent reduction in human-caused sediment



Napa River near Zinfandel Lane

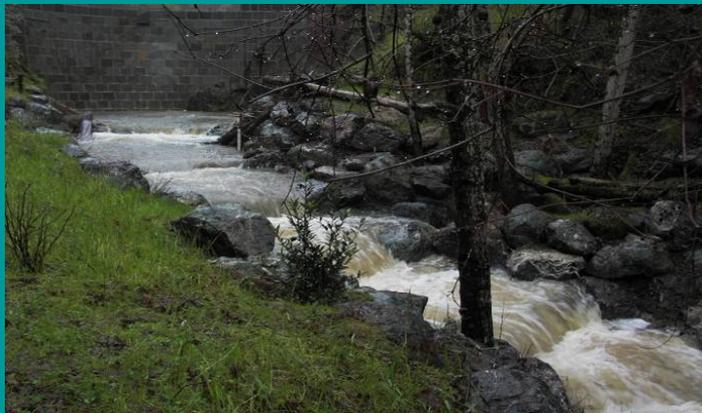
Habitat Enhancement Plan recommends actions to enhance ...



Habitat complexity



Baseflow



Fish passage



Stream temperature



Early Implementation



- 10,000 acres of vineyards certified as protective of water quality and salmonids
- 40-miles of dirt roads storm-proofed, reducing future sediment delivery by 2,000 tons per year
- Four fish passage projects completed restoring access to ten's of miles of high-quality steelhead habitat
- Planning complete to guide habitat enhancement throughout 14-miles of the Napa River



Adaptive Implementation

- Review of TMDL every five years
- Evaluation of
 - Implementation actions and progress
 - New and relevant information
 - Monitoring and special studies



Recommendation

- Approve the Amendment to incorporate the TMDL in the Regional Board Basin Plan
- Questions?