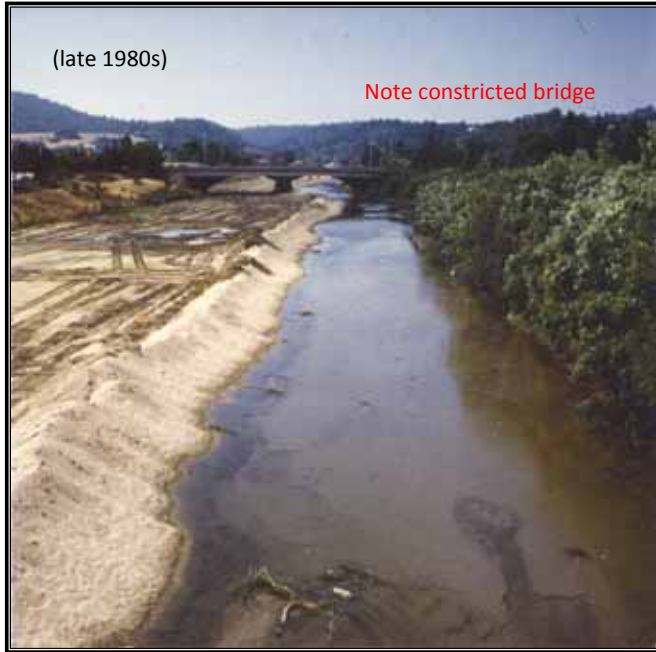


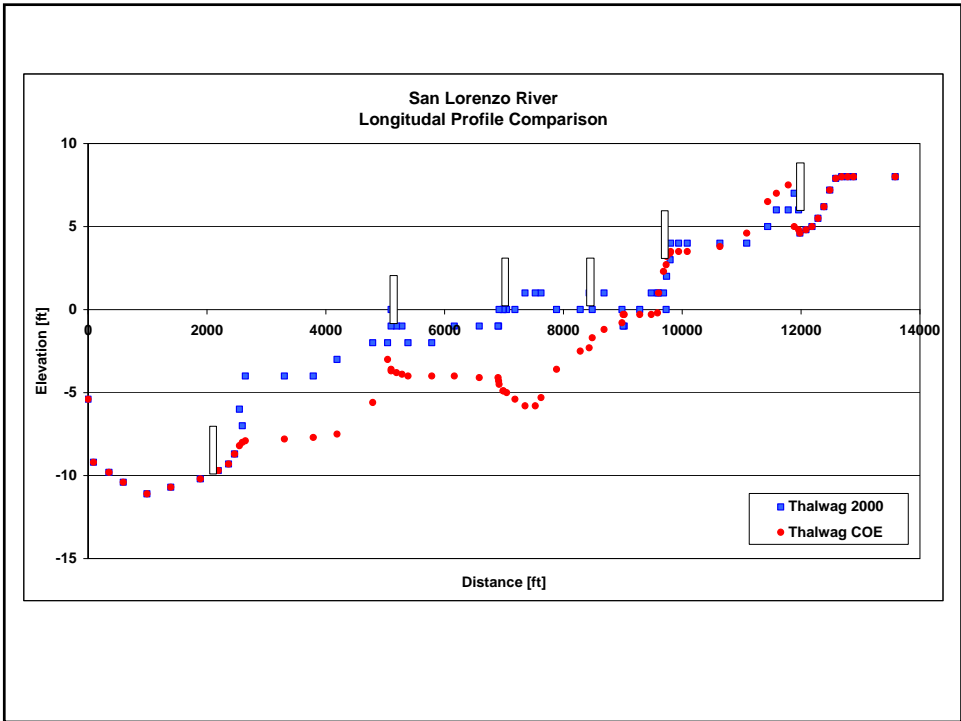
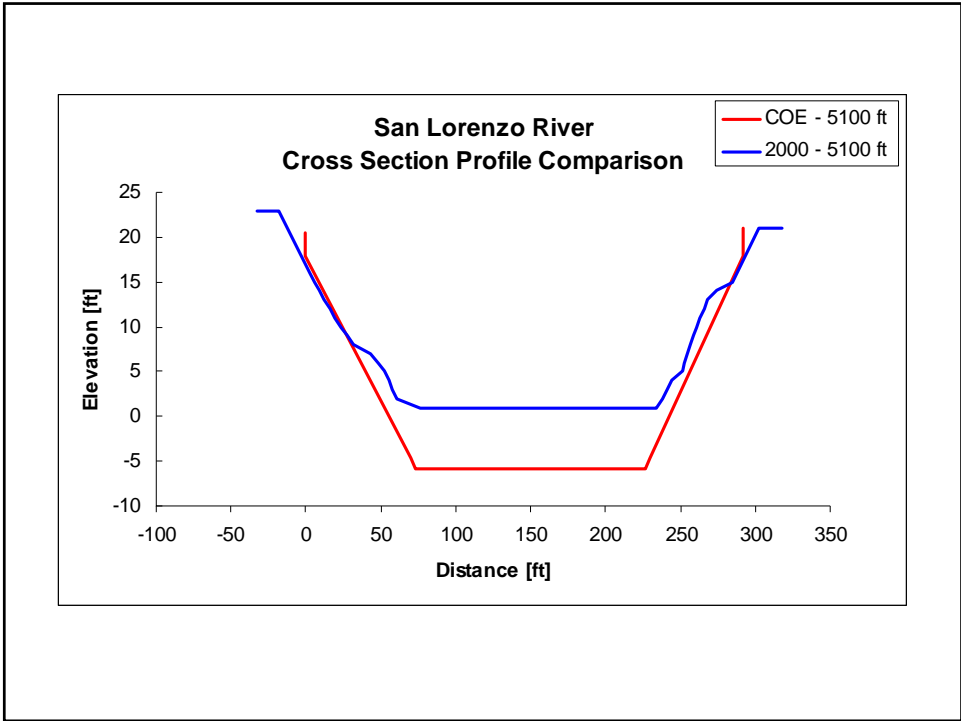




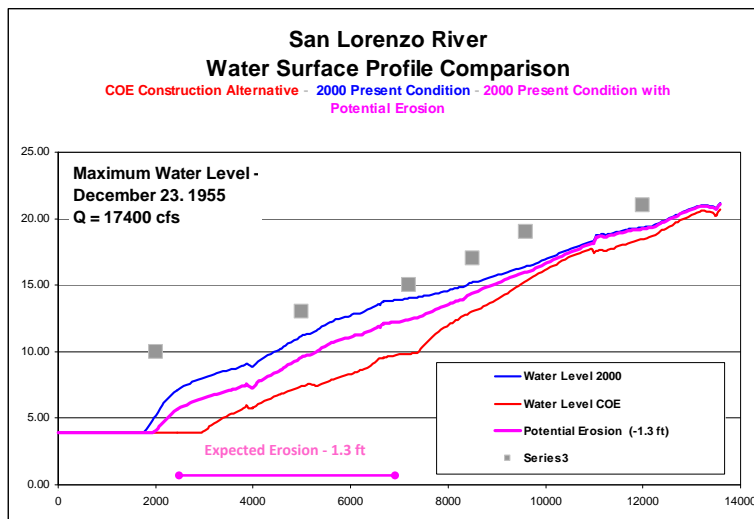
(late 1980s)

Note constricted bridge

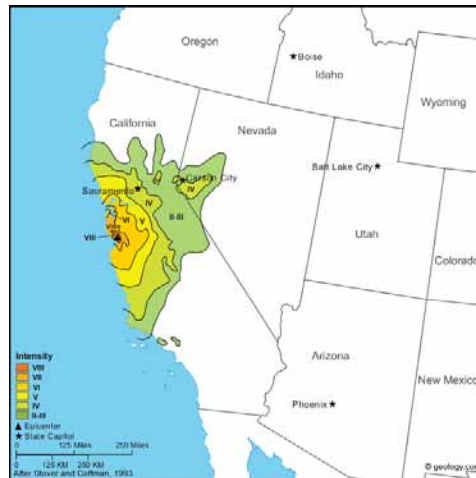




Soquel Ave Bridge after Jan. 4-5, 1982 flood



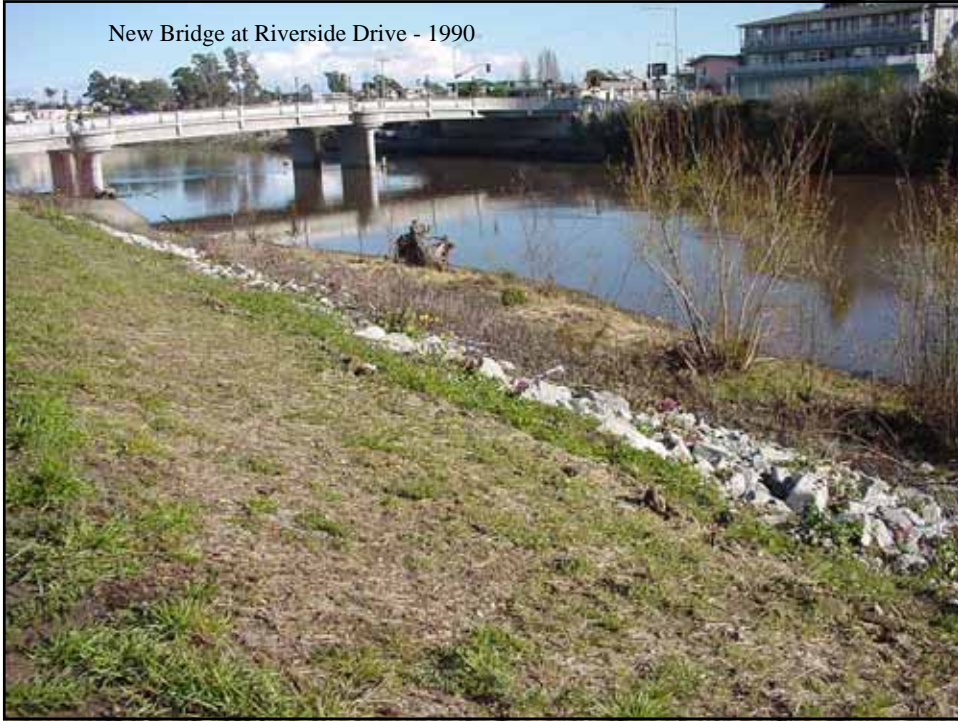
# 1989 Loma Prieta Earthquake



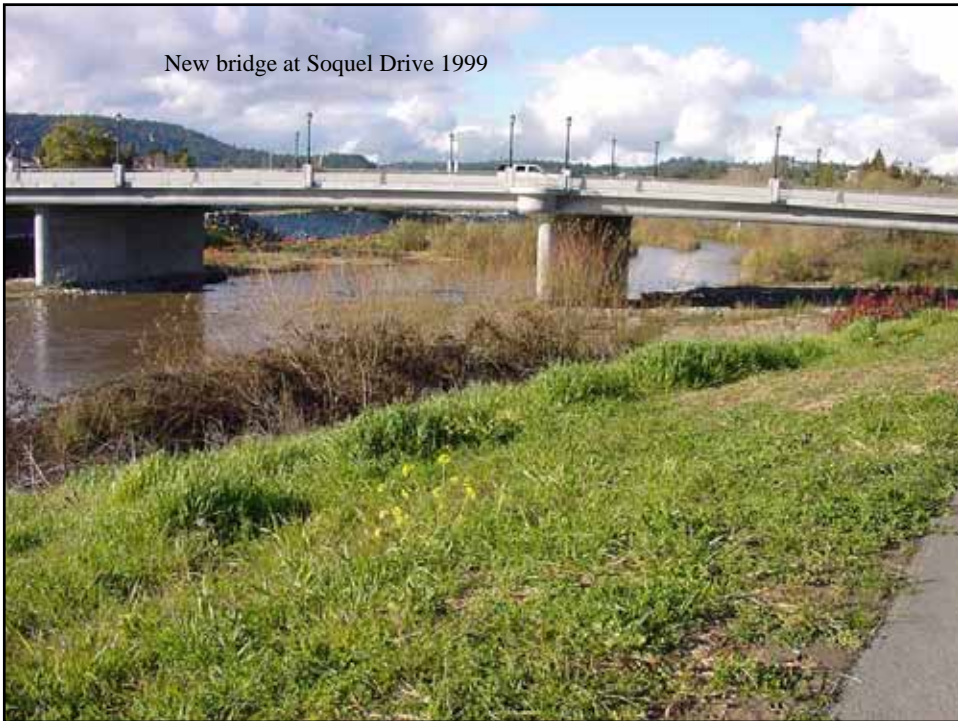
1989 Loma Prieta Earthquake damage to San Lorenzo River Levees (10/1989)



New Bridge at Riverside Drive - 1990



New bridge at Soquel Drive 1999



# SAN LORENZO RIVER ENHANCEMENT PLAN



**1989 Plan  
Document**

*San Lorenzo River  
Enhancement Plan  
Update*

Swanson Hydrology & Geomorphology

*Arroyo Grande Creek*

## San Lorenzo River Vegetation Management

*Looking Upstream from Pedestrian Bridge*

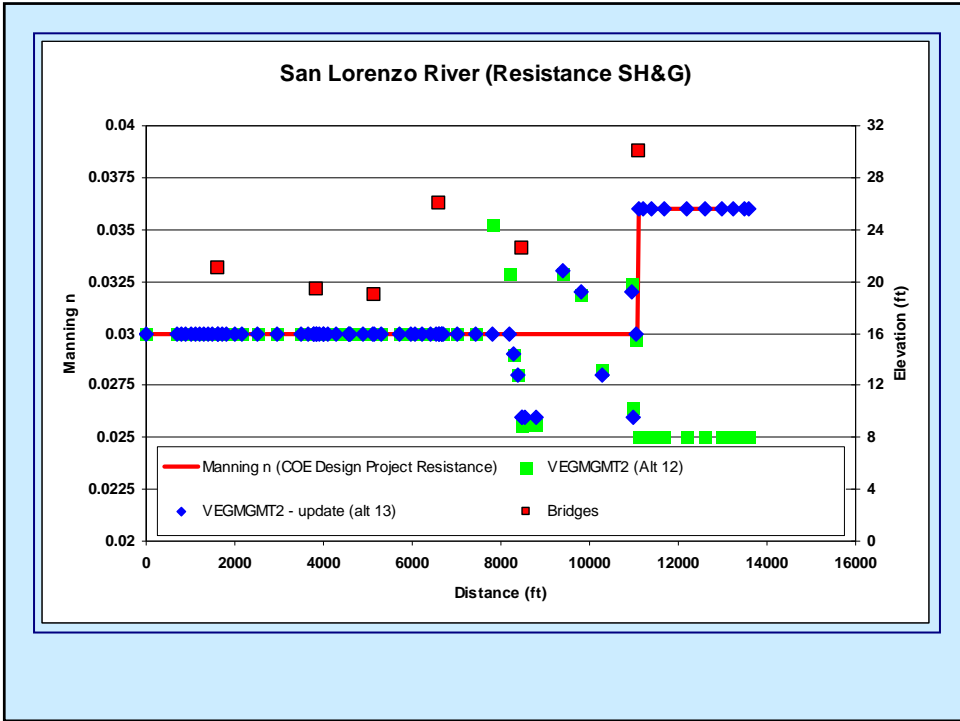


**photo taken 1989**



**photo taken 2000**

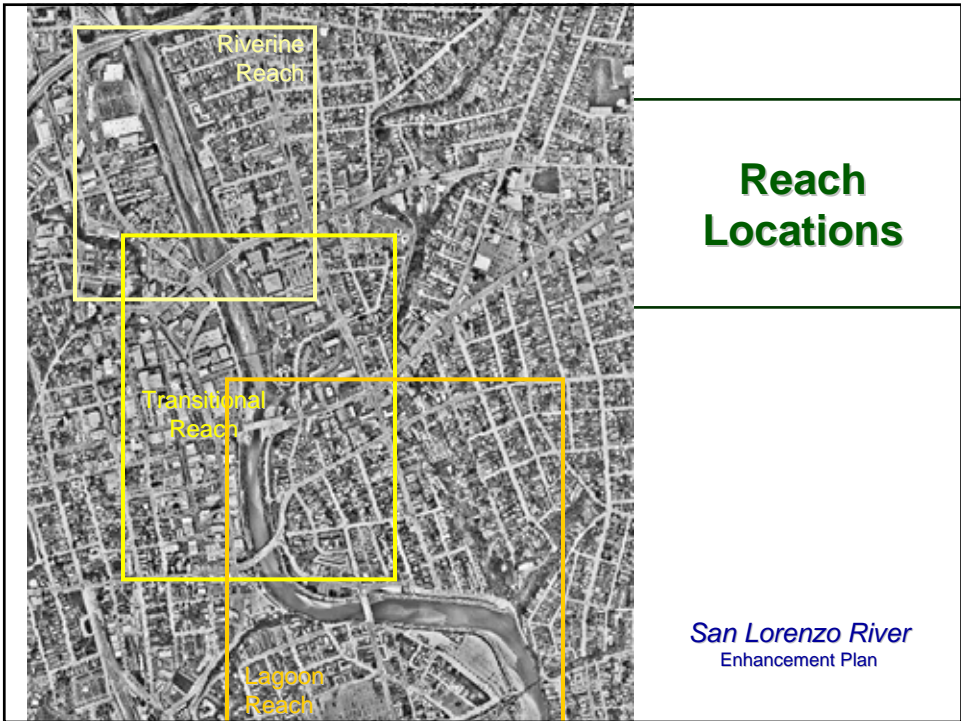
San Lorenzo River Enhancement Plan

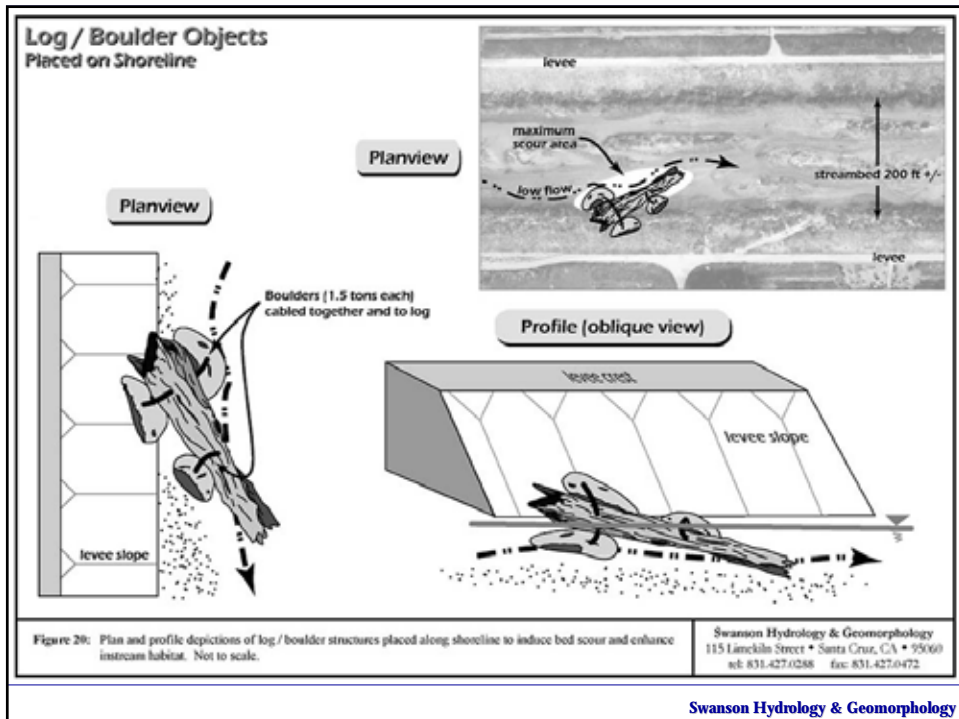






<h2 style="color: blue;">SAN LORENZO RIVER LAGOON MANAGEMENT PLAN</h2>		
<p><b>SCHEDULE</b></p>		<h1 style="color: green;">Current Schedule</h1>
<p>July 15, 2000</p>	<p>Existing Conditions Mapping/Assessment</p>	
<p>September 2000</p>	<p>LURP Workshop #1 1. Existing Conditions 2. Preliminary Enhancement Measures Alternatives Development</p>	
<p>November 2000</p>	<p>SLURP Workshop #2 Enhancement Plan Prototype</p>	
<p>December 2000</p>	<p>SLURP Workshop #3 Revised Enhancement Plan</p>	
<p>February 2001</p>	<p>SLURP Workshop #4 Draft Plan Review</p>	
<p>March 2001</p>	<p><b>Final Plan</b></p>	
<p><small>Seawater Hydrology &amp; Geomorphology 101 San Pablo Avenue • Sausalito, CA 94965 tel: 415.427.0288 • fax: 415.427.0472 http://www.seawaterhydrology.com © 2000 Seawater Hydrology</small></p>		<p style="color: blue;"><b>San Lorenzo River Enhancement Plan Update</b></p>





**San Lorenzo River Lagoon Enhancement Plan  
Draft Enhancement Actions**

**Estuarine Reach (Ocean to Soquel Avenue)**

Habitat	Problem	Action	Benefit	Quantity / Cost	Potential Impacts
Riparian Corridor	Existing riparian corridor is sparse, narrow and predominately exotic/invasive species	Remove exotics/plant natives	Improve extent and diversity of native riparian plants		Loss of flood capacity
		Selectively remove exotics and spare native colonizers	Improves growth of large trees and promotes native vegetation colonization		Loss of flood capacity
		Plant/selectively maintain overstory trees	Improve riparian corridor structural and species diversity		Potential loss of flood capacity; levee slope and internal stability
Shoreline	Lack of structural complexity, deep cover for fish from aquatic and terrestrial predators	Install boulder and log structures along with shoreline native plantings to promote scour holes and provide live cover	Increases deep water cover and refuge for low lagoon levels; provides cover and food		Potential minor loss of flood capacity
Estuary Marsh Habitat	Lack of land at proper elevation to support marsh hydrology and plants; reduces quality of aquatic habitat	Setback levee at Seaside parking lot	Would partially restore original marsh habitat; would improve shoreline habitats and primary productivity	\$3-\$4 million (excluding land costs)	Could change sediment transport and hydraulic characteristics important for flood control
		Setback levee at tennis courts to retaining wall along San Lorenzo Blvd; restore as floodplain and terrace with riparian forest plantings	Would create a relatively wide area of riparian habitat	\$2.5 - 4 million	Could alter flood hydraulics and sediment transport
Aquatic Habitat	Lack of deep cover for fish	Manage water level to maintain summer lagoon	Maintains high lagoon level and deeper water habitat in summer months with low stream flow	\$200,000 (excluding design and permit costs)	Liability for controlling lagoon Water quality may be impaired with high nutrient loads and low circulation
	Install shoreline enhancements (see above)				

**Recommendation 4: Enhance Shoreline Habitat**





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*Diversity in vegetation species at differing elevations above water surface at Scott Creek shows the value of topographic variability.*



