

Public Works Agency

Ventura County Watershed Protection District



Presentation to the Ventura River Watershed Council September 6, 2012

Proposition 84 Implementation Grant Round 2 Cycle District's Candidate Projects



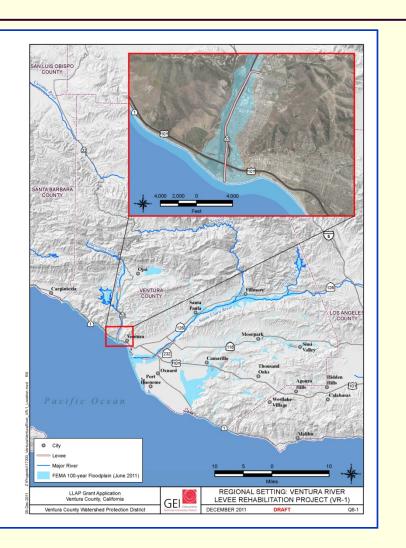
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Three Candidate Projects

ľ	Project Name	Project Description	Grant Funding Requested
	VR-1 Levee Flood Protection and River Parkway Enhancement Study Project	Study on the best way to integrate opportunities for river parkway enhancements and recreational trail opportunities into the four project design alternatives for the VR-1 Levee	\$350,000
	San Antonio Creek Spreading Grounds Rehabilitation Project (V-2)	Increase local groundwater storage and recharge in the Ojai Valley Groundwater Basin by rehabilitating four existing ponds, and constructing a new intake structure, monitoring well, diversion piping and channels, and four passive percolation wells	\$815,000
-	Non-Native Invasive Plant Removal within the Upper Ventura River Watershed and Recreation Enhancement Project	Proactive removal of non-native invasive plant in order to restore native habitat, provide flood and fire control, increase water supply, and improve water quality in a 4-mile reach of the Ventura River Downstream of Hwy 150 to Foster Park. Project includes development of Steelhead Preserve Education and Conservation Center.	\$1,000,000



Ventura River Levee (VR-1)





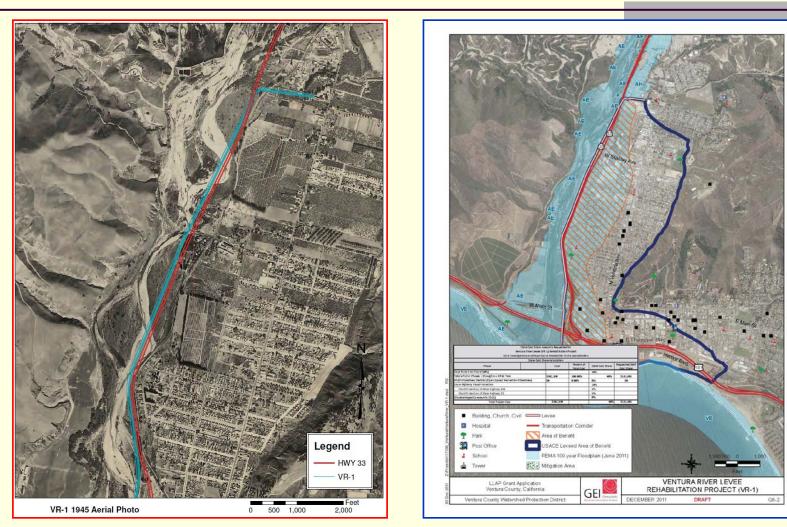


VR-1 Levee Post Construction Changes





Ventura River History and VR-1 Levee Rehab Action Plan





SACSGRP Site Vicinity Map





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SACSGRP Site Photos

Existing Spreading Grounds Ponds

San Antonio Ck near Intake Location



View Downstream (west)



SACSGRP Conceptual Design

San Antonio Creek Spreading Grounds Rehabilitation Project

Pond transfer

channel design:

while minimizing erosion

and turbulence

Channel water from pond to pond

4







Spreading grounds rehabilitation: Vegetation removal, fine sediment removal, minor reworking of embankments

Diversion structure: A notched abutment along the west bank of <u>San Antoni</u>o Creek to allow 11 cfs to remain



County of Ventura California

Monitoring Well: Consists of a nested series of six 2-inch-diameter PVC casings discretely screened and sealed at intervals between 40 and 450 feet below ground surface.

Depth Discrete

Site

Recharge wells: Four, large -diameter recharge wells with steel casings to facilitate transmittal of water to target aquifers at depths estimated to be between 60 and 150 feet deep.

Depth of each well will depend on logs and results of depth discrete monitor well installation.

A sand-filter stand pipeline: A sand-filter stand pipe in the last pond to transfer water by gravity to recharge wells

September 6, 2012

Daniel B. Stephens

& Associates, Inc.

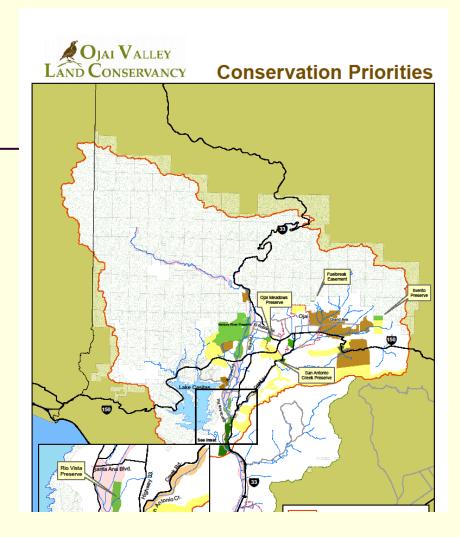
1-800-933-3105

www.dbstephens.com



Ventura River Watershed

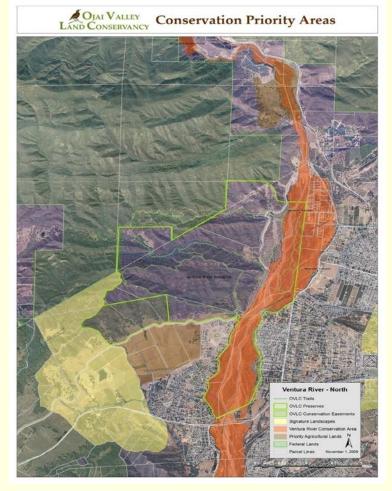
- Overview map of watershed
- Provides context of watershed wide conservation project priority planning
- Identifies property ownership to help facilitate selection of optimal project areas

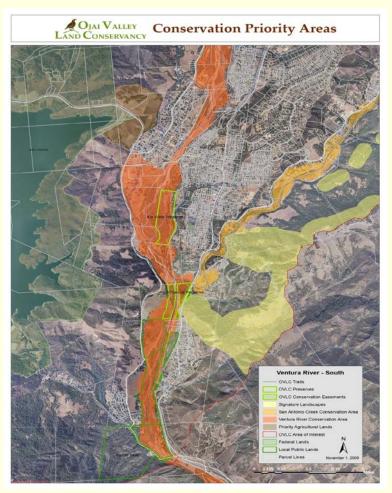




Ventura River: Conservation Priority Area Maps

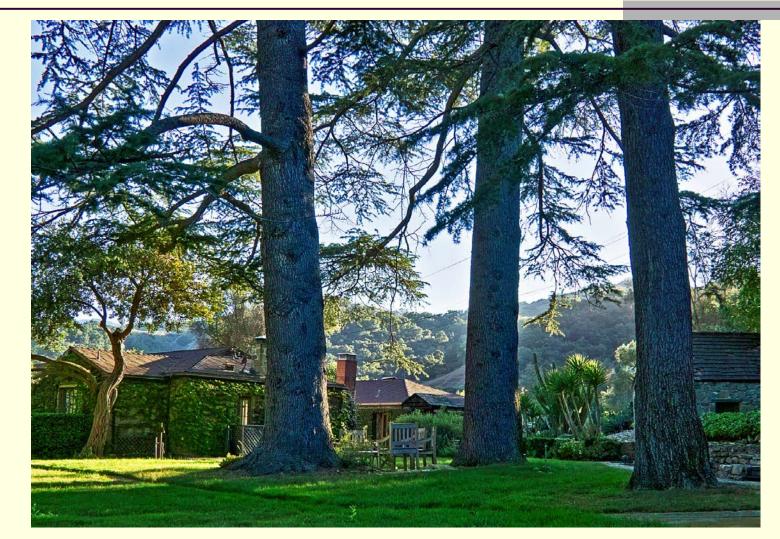
North of Hwy 150 South of Hwy 150 to Foster Park







Ventura Steelhead Preserve Education and Conservation Center







Gerard Kapuscik, Manager

Strategic Decision Support Group Ventura County Watershed Protection District Ph: (805) 648-9284 E-mail: "genard kapuscik@venturg.org"

E-mail: "gerard.kapuscik@ventura.org"

Greg Gamble, Executive Director Ojai Valley Land Conservancy Ph: (805) 649-6852 Ext 1 E-mail: "greg@ovlc.org"