

M E M O

To: Board of Directors

From: District Manager

Subject: Budget Amendment for 2005 Juvenile Steelhead Survey Project

Date: August 12, 2005

RECOMMENDATION:

It is recommended that the Board of Directors review this memo and approve the attached resolution authorizing a budget amendment in the sum of \$1,575.00 for the 2005 Juvenile Steelhead Survey Project.

BACKGROUND:

On June 30, 2005 your Board approved Resolution No. 33 (04-05) which adopted the Annual Budget for Fiscal Year 2005-2006. The Annual Budget provided funds in the sum of \$17,500.00 for the 2005 Juvenile Steelhead Survey Project.

In July 2005, District staff solicited a proposal from D.W. Alley & Associates for the subject project. See Attachment 1.

The proposed scope of services includes complete habitat typing and sampling at nineteen (19) separate locations. The proposed 2005 Juvenile Steelhead Survey Project would be an interagency cooperative effort between the District and County of Santa Cruz. The District would be the lead agency for the purpose of contract administration. The scope of services for the proposed 2005 Juvenile Steelhead Survey has a total cost of \$30,645.00. Santa Cruz County would provide funds in the sum of \$11,570.00 for their share of the proposed project. The following provides a summary of proposed project costs and funding sources:

\$30,645.00	Total Project Cost
<u>11,570.00</u>	County of Santa Cruz Funds
19,075.00	District Funds
<u>17,500.00</u>	Approved District Budget
1,575.00	Shortfall

It is recommended that the Board of Directors authorize a budget amendment in the sum of \$1,575.00 for the 2005 Juvenile Steelhead Survey Project.

James Mueller
District Manager

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SAN LORENZO VALLEY WATER DISTRICT

RESOLUTION NO. (05-06)

SUBJECT: BUDGET AMENDMENT FOR 2005 JUVENILE STEELHEAD
SURVEY PROJECT

WHEREAS, the Board of Directors desires to amend the Annual Budget for Fiscal Year 2005-2006 to procure the services of D.W. Alley & Associates for the 2005 Juvenile Steelhead Survey Project; and

WHEREAS, the District's Annual Budget for Fiscal Year 2005-2006 provides funds in the sum of \$17,500.00 for the 2005 Juvenile Steelhead Survey Project; and

WHEREAS, the proposed 2005 Juvenile Steelhead Survey Project would be an interagency cooperative effort between the District and County of Santa Cruz; and;

WHEREAS, the Board of Directors desires to amend the budget in the sum of \$1,575.00 to fund the District's share of the proposed project;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the San Lorenzo Valley Water District to amend the Annual Budget for Fiscal Year 2005-2006 in the sum of \$1,575.00 to procure the services of D.W. Alley & Associates for the 2005 Juvenile Steelhead Survey Project.

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PASSED AND ADOPTED by the Board of Directors of the San Lorenzo Valley Water District, County of Santa Cruz, State of California, on the 18th day of August, 2005, by the following vote of the members thereof:

AYES:
NOES:
ABSENT:

District Secretary
San Lorenzo Valley Water District

**San Lorenzo River Steelhead Monitoring Proposal- 2005
August 1, 2005**

Habitat typing of 19 reaches in the middle and upper watershed will be done in 2005 as had been done in 2003 (13 reaches) and 2000 (19 reaches) to more thoroughly evaluate habitat changes and update habitat proportions. The established half-mile segments will be habitat-typed in each reach. The reaches to be habitat typed will include the 4 middle River reaches, 6-9, and 3 reaches in the upper River, 10-12. Additionally, the 4 reaches in Zayante Creek, 3 reaches in Bean Creek, 3 reaches in Boulder Creek, and the 2 reaches in Bear Creek will be habitat typed. Depth and cover will be measured in all habitats, as well as percent fines and embeddedness. Tree canopy closure will be measured at 4 habitat intervals in tributaries and in each habitat in the mainstem. Habitat conditions will be compared to our 2003 and 2000 results.

Sampling by electrofishing will occur at the 19 most representative sites (with regard to average escape cover and water depth) in each of the 19 habitat-typed reaches. Eighteen sites were sampled in 2004. Upper Bear Creek is being added in 2005. Snorkel censusing of deeper pools in the 4 middle River reaches will be carried out as in previous years. Using habitat proportions and representative sites based on 2005 habitat typing, juvenile steelhead production will be determined for the 19 reaches based on the Average Habitat Quality (AHQ) method used in previous years for the purpose of analyzing trends. Previous sampling sites will be used if appropriate by the AHQ method.

Site densities where sites are repeated from previous years to 2005 will be compared statistically with a paired t-test. Measured habitat conditions at the fish sampling sites will include averaged mean and maximum habitat depth, escape cover, substrate embeddedness, and tree canopy closure for purposes of comparison with past years. A scientific editor will review the draft report. Data will be provided electronically.

Due to budgetary constraints, billing rates are reduced from 2001 levels. The County of Santa Cruz will provide \$10,000 for 2005 sampling and habitat typing. Two hard copies of draft and final reports will be provided to the clients, along with an electronic pdf file. Assistance will be needed from one County personnel to sample the 4 middle River sites, totaling 24 hours. Assistance from CDFG or NOAA Fisheries would be appreciated.

**Scope and Budget for Habitat Typing and Sampling of Selected Reaches of the
Middle Mainstem of the San Lorenzo River, Zayante Creek, Bean Creek, Bear
Creek and the Upper San Lorenzo Below Kings Creek**

August 1, 2005

Task	Alley (Labor) \$68/hr	Assistants (Labor) \$40/hr	Mileage (\$0.40/ mile)
1 Fish Sampling (19 sites)	98	192	540
2 Streamflow (9 sites)	8		100
3 Habitat Typing (19 Reaches)	76		150
4 Habitat Evaluation	36		
5 Density Estimates, Electronic Data Entry, Statistical Analysis	42	8	
6 Draft Report	48	8	50
7 Final Report	8		50
Total Hours/ Miles	316	208	890
Cost	\$21,488	\$8,320	\$356
Direct Expenses- Mileage, Report Production	\$481		
Total Budget	\$30,645		