



April 10, 1998

AGENDA: April 28, 1998

Board of Supervisors
County of Santa Cruz
701 Ocean Street
Santa Cruz, CA 95060

SUBJECT: APPROVE EXPENDITURE OF \$21,563 TO FUND VARIOUS PROJECTS
AND TRANSFER OF \$6,563 WITHIN THE FISH AND GAME BUDGET

Members of the Board:

As a part of each year's Planning Department Budget, your Board allocates funds for projects to support fish habitat and related fish and game projects. Recommendations are made to your Board in conjunction with the Fish and Game Commission (See County Code § 2.90.050). The purpose of this letter is to transmit this year's recommendations. On April 2, 1998 the County Fish and Game Advisory Commission recommended approval for funding in the amount of \$15,000 for eight projects as follows:

1. Monterey Bay Salmon and Trout Project, \$6,430. This grant will be used to purchase an emergency generator for facility operations.
2. CalTIP, \$800. This grant to CalTIP will be used to help continue the support of this program which encourages citizens to turn in Fish and Game Code violators.
3. CARES Region 5, \$750. This grant will be used to match funds for environmental education and training for 79 school districts, 586 K-12 schools, 16,800 teachers and 361,000 students in Monterey, San Benito, Santa Clara, and Santa Cruz Counties.
4. Coastal Watershed Council, \$1095. This grant will support the Clean Streams Program currently monitoring water quality in Arana Creek, Soquel Creek, Corralitos Creek, and the San Lorenzo River.
5. Fishermen's Alliance Monterey Bay Chapter, \$4000. This grant will help support the second year of study regarding sea mammal interactions with sport and commercial fisheries on the Monterey Bay, and sea mammal/salmonid interactions.

6. Friends of Santa Cruz State Parks, \$250. This grant will be used for campfire³⁸⁴ programs at Manresa, Sunset, and New Brighton Beach State Parks which will focus on the Monterey Bay, and its diverse species.
7. The Pelagic Shark Research Foundation, \$1000. This grant will be used to tag and release Blue, Mako and Thresher sharks in the Monterey Bay to learn about their movement, and range.
8. The San Lorenzo River institute, \$675. This grant will be used as part of the ongoing project to restore the San Lorenzo River by facilitating watershed educational activities, offering teachers resources, and promoting river stewardship in 16-20 classes up and down the watershed.

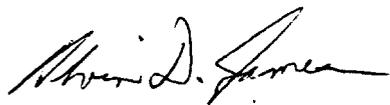
The Commission also voted to grant \$6,563 to the Monterey Bay Salmon and Trout Project to help offset the cost of damages to the rearing facility suffered during this winter's severe storms. Monterey Bay Salmon and Trout Project is in the process of applying for FEMA disaster assistance to cover these and other similar costs. If they are successful with these applications, these funds would be returned to the Fish and Game Fund.

In order to grant the above funds, a transfer in the amount of \$6,563 from the General Contingencies within the Fish and Game Fund will be necessary.

It is therefore RECOMMENDED that your Board:

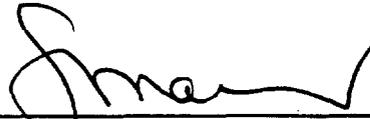
1. Approve the Fish and Game Advisory Commission's recommendations for grants and authorize the Auditor-Controller to disburse the funds;
2. Approve the attached AUD-74 Transfer of Appropriations and/or Funds transferring \$6,563 within the Fish and Game Budget; and
3. It is further recommended that your Board require Monterey Bay Salmon and Trout Project to refund to the Fish and Game fund those costs found to be eligible for disaster assistance under the claim being pursued by Monterey Bay Salmon and Trout Project.

Sincerely,



ALVIN D. JAMES
Planning Director

RECOMMENDED:



SUSAN A. MAURIELLO
County Administrative Officer

mbstp.wpd/816

COUNTY OF SANTA CRUZ
 REQUEST FOR TRANSFER OR REVISION
 OF BUDGET APPROPRIATIONS AND/OR FUNDS

ATTACHMENT 1

01 385

Department: PLANNING - FISH AND GAME FUND

Date: 4/10/98

TO: Board of Supervisors / County Administrative Officer / District Board

I hereby request your approval of the following transfer of budget appropriations and/or funds in the fiscal year ending June 30, 1998

AUDITORS USE ONLY			
DOCUMENT #	AMOUNT	L/N	T/C HASH
JE 6, , , ,	131,26.00	2	43

BATCH #	
DATE	Keyed By:

	T/C	INDEX	SUBJECT	USER CODE	AMOUNT	ACCOUNT DESCRIPTION *
T R A N S F E R	0,2,1	1,3,5,4,2,0	5,2,8	0	65,6,300	Contr. to other agencies Fish + Game
F R O M	0,2,2	1,3,5,4,2,0	9,6,9	5	65,6,300	General contingencies - Fish + Game

Explanation: To transfer funds to provide for donations to other agencies

Name Randy McCallum Title Fiscal Officer

Auditor-Controller's Action: I hereby certify that unencumbered balance(s) is/are available in the appropriations/funds and in the amounts indicated above.

Auditor-Controller, by Janice Ward Deputy Date 4/15/98

County Administrative Officer's Action: Recommended to Board Approved Not Recommended or Approved

County Administrative Officer James Edwards Date 4/20/98

State of California } As the Clerk of the Board of Supervisors of the County of Santa Cruz, I do hereby certify that the foregoing request for
 ss. transfer was approved by said Board of Supervisors as recommended by the County Administrative Officer by an order
 County of Santa Cruz} duly entered in the minutes of said Board on

_____, 19____ By _____, Deputy Clerk

A-C)* Desc: _____ # _____ - Budget Transfer

Distribution: BRD. NAME AGENDA DATE ITEM NO.
 White-Board of Supervisors Green-County Administrative Officer Goldenrod-Departmental b n b d Copy
 Yellow-Auditor-Controller Pink-Originating Department

A-C Review
43

SANTA CRUZ COUNTY

FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

- I. **Name of Group/Individual:** Monterey Bay Salmon & Trout Project
- II. **Amount of Funding Requested:** \$6,730
- III. **Name, Address and Phone Numbers of Contact person:**
 Matt McCaslin (408) 462-6165
 2524 Parker Street
 Santa Cruz, CA 95065
- *IV. **Description of Proposed Project:**
 Emergency Generator for facility operations. The addition of a fully automatic electrical generation **system** would insure full protection of all salmon and steelhead being reared at the Big Creek Hatchery. In the event of a power failure or water flow loss, an emergency generator would allow us to operate 24 hours per day without having to staff the
- *V. **Objective:** facility at night during winter storms or power loss
 Better protect the salmon and steelhead that are raised by the Hatchery.,
- *VI. **Background and History of your organization, and or of the problem**
 We are a non profit 501 c-3 volunteer organization dedicated to restoring local runs of salmon and steelhead through the propagation of wild fish and by educating our local youth's through a salmon and trout education program.
- *VII. **How will project be accomplished (design specs/plans, if applicable)**
 If the Commission is willing to partially fund the generator purchase, we will provide the labor and materials to install the generator and the distribution system.
- *VIII. **Budget to include the precise use of Grant monies**
 Requesting that the Commission match us 50 for the generator purchase
- Mail to: **County of Santa Cruz Fish and Game Advisory Commission**
 c/o Resource Planning Section, Planning Department
 Room 406B
 701 Ocean Street
 Santa Cruz, CA 95060

COMMISSION MEETINGS: The Commission's meeting are scheduled on the first Thursday, (7:00 p.m.) of every other month at the above address, a map is attached. The public is invited and welcome to attend,

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If you have any questions please call Harlie Peterson, Chairman, Fish and Game Advisory Commission at 408-862-1350.

STATE ELECTRIC MOTOR, INC

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CUSTOM GENERATOR SYSTEMS SINCE 1955

TO: MONTEREY BAY S&T PROJECT DATE: DEC. 12, 1997
324 SWANTON ROAD PROPOSAL NO: 998
DAVENPORT, CA 95017 PRESENTEDBY: RUSSEL MARIDON
ATTN: DAVE STREIG
F.O.B. WAUKESHA, WISCONSIN

I AM PLEASED TO QUOTE ON YOUR INQUIRY AS FOLLOWS

BASIC GENERATOR

EMT 25GH, 120/240 VOLT
3 PHASE, 4 WIRE
HERCULES/LEROY SOMER

COOLING SYSTEM

MOUNTED RADIATOR

FUEL SYSTEM

VAPOR FUEL
FLEX FUEL LINE

MOUNTING

STRUCTURAL STEEL SUB BASE

EXHAUST SYSTEM

RESIDENTIAL GRADE SILENCER
STAINLESS STEEL FLEX SECTION

ACCESSORIES

LEAD ACID BATTERY
BATTERY RACK & CABLE
5 AMP BATTERY CHARGER
VIBRATION SPRING ISOLATOR
MAIN BREAKER
WEATHER HOUSING

ENG. GOVERNOR

MECHANICAL HYDRAULIC

CONTROL PANEL

AUTO START CONTROLLER WITH
FOUR ENGINE SHUTDOWNS WITH LIGHTS
VOLT METER 2% ACCURACY
FREQUENCY METER 2% ACCURACY
AMMETER 2% ACCURACY
SELECTOR SWITCH
PANEL LIGHTS
VOLTAGE ADJ. RHEOSTAT
HOUR METER
LAMP TEST SW.

ENGINE INSTRUMENTS

OIL PRESSURE GAUGE
WATERTEMP. GAUGE
BATTERY AMMETER
HOUR METER

TRANSFER/SWITCH

WESTINGHOUSE 225 AMP, 120/240 VOLT
3 PHASE, GROUP 9 ACCESSORY PACKAGE
NEMA 1 ENCLOSURE

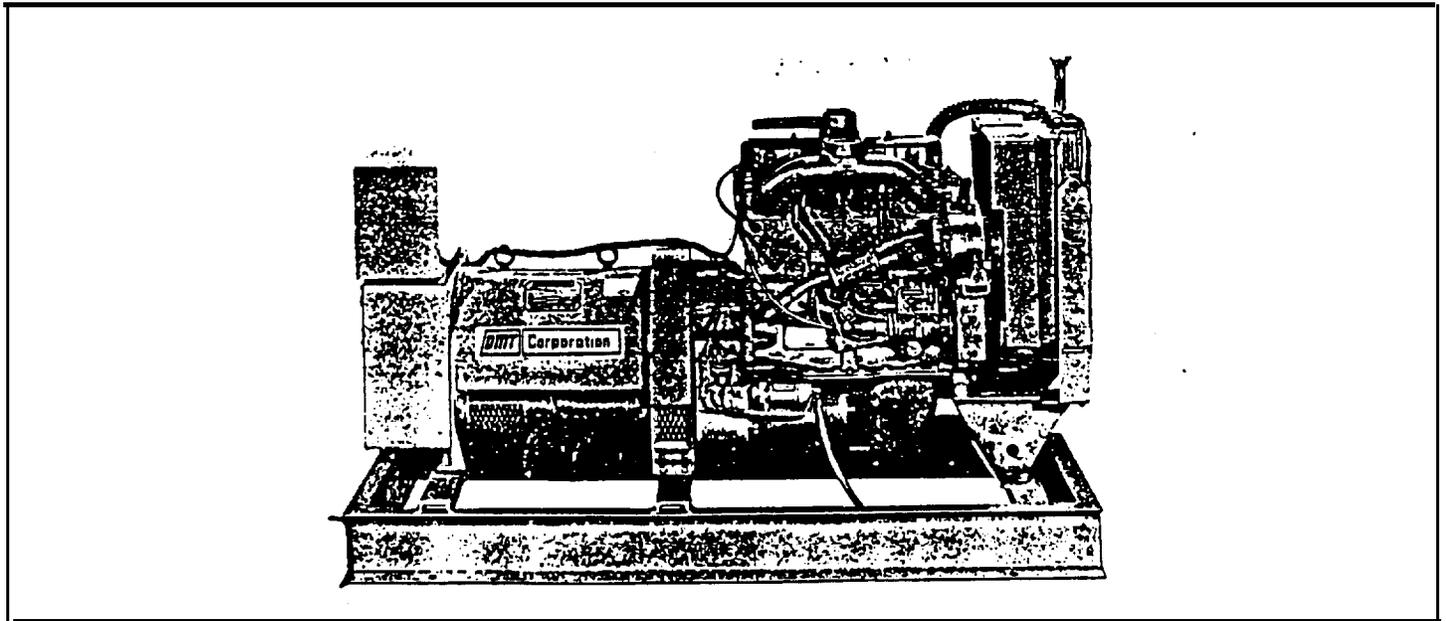
QUOTED PRICE: 13,460 PLUS TAX & FREIGHT

A 50% DEPOSIT IS REQUIRED BEFORE PLACEMENT OF YOUR ORDER.
REMAINING AMOUNT IS DUE UPON DELIVERY OF GENERATOR.

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DMT 25 GH
Generator Set



Specifications

Engine: White Gas. Model **G-1500**
50HP at 1800 RPM - 42HP at 1500 RPM

Generator: 12 Lead Brushless

Rated Output	.60 Hertz	<u>50 Hertz</u>
• Continuous Standby		
KW @ 0.8 PF (KVA)	25 (31)	20 (25)
• Prime Power		
KW @ 0.8 PF (KVA)	22 (27.2)	18 (22.5)
• Approx. Fuel Consumption at Full Load		
U.S. Gals./ hr. (liters/b.)	3 (11.3)	2.5 (9.4)
Nat. Gas Ft ³ /Hr	342	
LPG Vapor Ft ³ /Hr	140	<u>3.86 gal/hr</u>

Other intermediate ratings are available.

	<u>Metric</u>
Operating Cycles.....	4
Number of Cylinders.....	4
Bore and Stroke.....	4x3.25" 101.6x82.6 mm
Piston Displacement.....	163 cu. in. 71.1
Approx. Dry Weight.....	950 lbs. 431 kg

Standby Rating is applicable for supplying electrical power in the event of normal utility power failure. No overload capability is available for this rating. This rating may be used for continuous service for as long as the emergency may last. This rating conforms with the BS 649:1958 overload rating and DIN "B" 6270.

Prime Power Rating is applicable for supplying electric power in lieu of commercially purchased power. Intermittent overloads up to the Standby Rating are allowable. This rating may be used for continuous service in commercial applications and it conforms with BS 649:1958 and DIN "a" 6270 for generator set applications.

Standard Equipment

Air Cleaner: Dry Type, Heavy Duty

Electrical: 12 VDC Alternator
12VDC Starter

Exhaust Manifold: Dry

Filters: Lubricating Oil

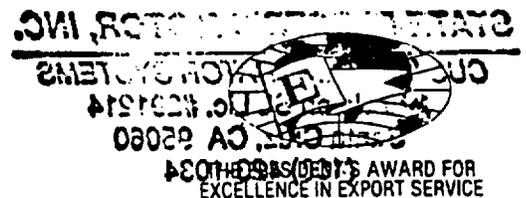
Generator: Brushless Revolving Field,
4 Pole with solid state
voltage regulator

Instruments: Voltmeter, Lube Oil Pressure
(Engine) Cooling water temperature and
Running Time Meter

Radiator: For 125° F (52° C)
Ambient temperature with blower
Fan and Guard.

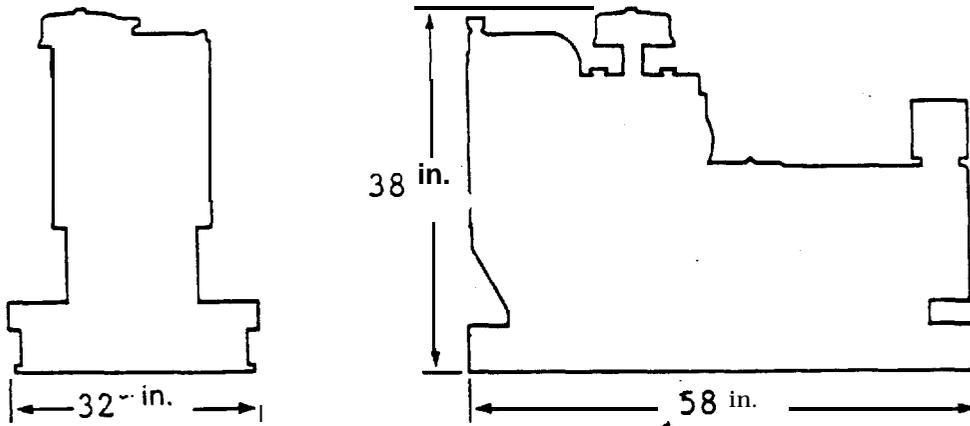
Safety Controls: Low Oil Pressure
High Coolant Temperature and
Engine Overspeed

Subbase: Structural Steel Construction



Overall Dimensions

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Technical Data

Lubrication System:		
Capacity Gals. (liters)	1.5 (5.6)	
Cooling System:		
Capacity Total Gals. (liters)	4 (15)	
Air Requirements:		
	60 HZ	50HZ
Total CFM (liters/sec)	3700	1746
Electrical System:		
	12 Volt D.C.	
	Negative Ground	
Performance Data:		
	<u>Frequency</u>	<u>Voltage</u>
Regulation	5%	2 %
Steady State	±.5%	± 1%
Transient	3%	12% max.
Recovery	2 sec.	1 sec.

Generator Design Features

Construction: Conforms with National Electrical Manufacturers Association NEMA MG1-22; British Standard BS 2613-1970; Canadian Standards Association listed.

Bearing: Single row ball, shielded.

Cooling: Cast aluminum alloy ventilating fan part of drive assembly.

Drive Coupling: Positive alignment, flexible laminated steel disk with 400% safety factor.

Exciter: Brushless rotating half wave rectification exciter with solid state components inboard of rotor bearing.

Main Frame: Steel construction with rear mounted connection box.

Rotor: One piece 4 pole laminations, amortisseur windings and coil supports, layer wound, rotor shrunk fit and keyed to shaft, dynamically balanced to withstand 25% overspeed. Epoxy coated for abrasion and humidity protection.

Stator: 12 lead output, suitable for 3 or 4 wire Y connection. Epoxy coated for abrasion and humidity protection.

Temperature Rise: Rotor and stator Class F insulation meet N.E.M.A. Class F standards.

Voltage Regulator: Solid state, with SCR control. Modular construction, RFI filter for suppression of conducted electromagnetic interference to levels meeting most commercial requirements and with under frequency protection. Protected against high humidity conditions by hermetically sealed power control diodes. Voltage regulation is within ±1% no load to full load.

• **Voltages Available:**

	3 Wire Y	4 Wire Y
60 Hz	208 to 240	120/208 to 139/240
	380 to 480	220/380 to 277/480
50 Hz	190 to 203	120/208
	380 to 416	220/380 to 240/416

• For other voltages, consult factory.



W229 N2494 HWY. 164
WAUKESHA, WISCONSIN 53186 U.S.A.
PHONE (414) 549-0014
Telex: 269477
Cable: WATSNVOLTS

"LOCAL DISTRIBUTOR"

STATE ELECTRIC MOTOR, INC.
CUSTOM GENERATOR SYSTEMS
120 Union St. Lic. #291214
Santa Cruz, CA 95060
(408) 423-1034

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1998 CALTIP GRANT APPLICATION

DATE: 1/23/98

TO: Santa Cruz County Fish & Game Advisory Commission

FROM: Santa Cruz County CalTIP Coordinator, John Robinson

The following papers have been enclosed:

1. 1997 CalTIP promotions and activities in Santa Cruz County by John Robinson
2. State wide CalTIP statistic's calendar year 1996 - "Annual report".
3. 1998 grant request application

Completed Projects, John Robinson Santa Cruz County CALTIP

11 /7/96 ---Attended F&G commission meeting My grant application for Cal Tip 1997 was approved and will be forward to the Board of Supervisors. The commission acknowledged a letter of thanks **from** F&G for the 1996 CalTIP contribution.

12/14/96---Cal Tip video presentation " Hunters Education " --sold 3 hats

1/9/97----- Attended F&G commission meeting and gave an overview of the 1995/1996 Cal Tip annual report.

1/30/97---- AAYS Rents & sales (medical supplies) contributed a **tv/vcr** cart to CAL TIP to assist in the presentation of the CAL TIP video.

1/30/97---- Assembled **tv/** vcr cart for Hunters Ed class .

1/3 1/97----Paul **Marundi** with the "The VCR / TV Repair Shop " of Santa Cruz contributed a TV & VCR to the Cal Tip program . Paul was a student at one of the hunter education class's and had noticed our equipment was in need of being up dated. The equipment **will** be used **bi** monthly to present the Cal Tip video to each class. This is a big improvement and very much appreciated.

2/1/97----Ride along with warden John Sutton ,**San** Lorenzo River steel head foot patrol and replace missing Cal Tip posters.

2/22/97--CAL TIP video presentation " Hunters Ed ".

3/20/97-- Completed video taping with TCI on the upper end of Zayante crk. The project is scheduled to start airing March 27 in Santa Cruz CO.

3/26/97-- Picked up completed video from TCI. **Scotts** Valley,

Projects completed 1997 2nd Qt , John Robinson Santa Cruz County CalTip

4/26/97 ----CalTip video presentation " Hunters Education " sold 3 hats.

4/26/97---Distribute **CalTip** materials at the **Camp Evers** youth fishing derby
(**Scotts** Valley) With warden John **Sutton**.

5/11/97----Distribute **CalTip** materials to **Elkhorn Slough** Ecological Reserve.

6/5/97-----Meet with **Donna Kimura** **Santa Cruz Sentinel** & warden John Sutton
to interview **CalTip** for news article.
As a result of this **CalTip** article radio station **KSUP in Santa Cruz**
contacted Lt **Dennis** Baldwin and myself to do a live call in talk show
with the public to answer questions about **DFG & CalTip**. I left this
with Dennis as I was unavailable to participate.

PROJECTS COMPLETED 1997 **4QT**, JOHN ROBINSON SANTA CRUZ
CALTIP

8/25/97-----**CalTip** video presentation " Hunters Education " sold 3 hats.

9/20/97-----**CalTip** table & display at the Shark Festival and Sanctuary Celebration
on the Santa Cruz Wharf with assistance from Warden John Sutton . sold 7
hats & 2 logos and distributed many **CalTip** promotions. We even had a
surprise visit form Sam Farr.

SANTA CRUZ COUNTYFISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

I. **Name of Group:** California Department of Fish and Game **CalTIP** Program

II. **Amount of Funding Requested:** \$800.00

III. **Name, Address and Phone Number of Contact Person:**

John R. Robinson., 182 Compass Ct. , Boulder Creek, CA, 95006
408-338-2313

IV. **Description of Proposed Project**

CalTIP or "Californians Turn In Poachers" encourages citizens to turn in environmental and fish and game violators by calling a 24 hour a day, 7 day a week telephone hotline. Calls are immediately referred to local enforcement agencies **and/or** local wardens. The program offers anonymous rewards of up to **\$1,000.00** for tips which lead to an **arrest**.

CalTIP is a nonprofit organization, sponsored but not funded by the California Department of Fish and Game. It is supported by outside funding and private donations. **CalTIP** has a volunteer citizens review board .

V . Objective:

The objective of **CalTIP** is to substantially reduce poaching and polluting in California.

VI. **Background and History of Your Organization:**

The **CalTIP** program was developed in 1981 in response to growing **concern** by the Department of Fish and Game and the general public about the problem of poaching, polluting and **wildlife** crime in California. The Department recognized the fact that fewer than 350 game wardens can not adequately patrol 145,000 square miles of terrain, 1100 miles of coastline, 30,000 miles of rivers and 4,800 lakes. They needed the public's help. They needed the public to be their eyes and ears. The program was set up along the same lines as most other state wildlife agency hotlines.

Since 1981, **CalTIP** has rewarded more than **\$125,000.00** . Most cases involved the illegal taking of game animals and fish.

VII. *How will project be accomplished?*

1. A citizen witnesses a Fish and Game violation or act of polluting.
2. He/She calls **1-888-DFG-CALTIP**. (24 hour a day, 7 days a week)
3. A report is taken by a dispatcher.
4. The report is relayed to the local warden in the area of the state where the alleged violation took place.
5. A warden investigates the report and depending on the circumstances, may either issue a warning, write a citation or make an arrest.
6. **If** the citizen caller's information leads to an arrest, the caller is entitled to a cash reward.
7. The 7-member Citizen's Review Board determines if a reward will be paid and for how much.
8. The **CalTIP** Citizen's Review Board administers the reward not the DFG.

VIII. *Budget to include the precise use of Grant monies:*

All \$800.00 will go for reward payments. The money will be given to the **CalTIP** Citizen's Review Board to administer the money as a reward for citizens who report Fish and Game violations **and/or** polluting activities which lead to an arrest.



Jack McLaughlin, Ed.D.
Administrator

Bill Lovvorn
Coordinator
Environmental Education

**Santa Cruz County
Office of Education**
809-H Bay Avenue
Capitola, CA 95010
Phone 408-479-5313
FAX 408-476-5294
Interinc3@aol.com

January 28, 1998,

To: Santa Cruz County Department of Fish and G&E

From: William Lovvorn, Coordinator *Bill*
Region V Environmental Education
California Department of Education

RE: **Fish and Game Advisory Commission Funding Request**

In 1996, the California Department of Education, California Integrated Waste Management Board, and the California Air and Water Resources Boards designated the Santa Cruz County Office of Education as a four county hub of environmental education resource. We are proud to have connected with more than 79 school districts, 586 schools, 16,800 teachers and 361,000 students to promote what's right in our environment, while leading them to action for improvement.

As part of the grant requirements, we are seeking support from regional community agencies to strengthen our educational network. Your support to this program will include direct service to schools and children who, in turn, will have the opportunity to experience "hands on" activities that will change behaviors in homes, communities and schools.

Thank you for considering this request, please visit our site on the World Wide Web at <http://members.tripod.com/~sccoe> to find out more about our dynamic program!

Please feel free to call William Lovvorn, Region V Coordinator, with questions at (408) 479-5206.

Other supporters include:

California Integrated Waste Management Board
California Air Resources Board
California Water Resources Board
Freedom. Rotary

O'Neill Sea Odyssey
Seagate Technology
West Marine Products
Watsonville First
National Bank

about the future because
we will have to spend the
rest of our lives there."

SANTA CRUZ COUNTY

FISH AND G A & ADVISORY COMMISSION FUNDING REQUEST

I. Name of Group/Individual

Region V CREEC (California regional Environmental Education. Coordmator) Network was developed in 1996 by Delaine Eastin, State Superintendent of Public Instruction. The Network is funded through the California Department of -Education, California Integrated Waste Management Board; California Air Resources Board,, and the California Water Resources Board. The amount of funding is \$20,000 per year for three years, with a required \$10,000 match to be acquired by each region per year from community service and program providers; We are currently in our-second year of operation.

II. Amount of Funding Requested: 51,500

III. Name, Address and Phone Number of Contact Person

Bill Lowom, CREEC Coordinator, Region V
 Santa Cruz County Office of Education
 809-H Bay Avenue
 Capitola, CA 95010
 (408) 477-5483,
 Interinc3@aol.com

IV. Description of Proposed Project

The Santa Cruz County Office of Education was selected by the California Department of Education to be the four-county hub of environmental education. resource and training. The funding will provide support for the following activities:

- Development and Distribution of Region V Resource Guide
- Creation of World Wide Web Site, for Teachers and Students
- Promotion of Region V Environmental Education Resources and Programs
- Informational Presentations at Regional, State and National Events

Region V includes 79 school districts, 586 K-12 schools, 16,800 teachers and 361,000 students in Monterey, San Benito, Santa Clara and Santa Cruz counties.

V. Objective

Presenting environmental education issues and activities to students and teachers will enable them to develop environmental literacy while encouraging the development of environmental ethics. As stated by the California Department of Education, it is necessary to provide teachers with technical assistance in

I.

promoting environmental education concepts into the core academic curriculum of language arts, history, mathematics and science.

VI. Background and History of Organization, and/or of the Problem

Each year, the Santa Cruz County Office of Education, works with schools, businesses and community, groups to provide more than 150 professional development activities and training throughout Region V. The population ranges from the technology-rich silicon valley to the rural farmlands of Pajaro Valley and the Pacific Rim coastal region.

With this established pipeline, and reputation as an educational leader in the region, programs such as Region V CREEC are promoted with expected action towards school and classroom implementation.

VII. How Will Project Be Accomplished (Design Specs/Plans, If Applicable).

Through Advisory Committee activity and regional meetings with teachers and other educators, programs and resources will be promoted with guidelines for action-steps that take children into their local environment. Accomplishments will include:

- Increasing awareness of environmental education resources in four-county region.
- Sharing of ideas and techniques for using environmental education in the classroom.
- Promotion of "Project Wild"
- Tours to Fish and Game sites
- Coordination of Salmon and Trout Education Program (Yearly)
- Providing a database of teachers interested in sharing and implementing fish and game environmental education curricula.

VIII. Budget to Include the Precise Use of Grant Monies

STATE FUNDS		\$20,000
Coordinator	Salaries	\$12,119
Operating Expenditures	\$ 2,000	
Meeting Expenses	\$ 4,315	
Indirect Costs	\$ 1,566	
COMMUNITY MATCH FUNDS*		\$10,000
Travel Expenses	\$ 1,000	
Resource Guide	\$ 5,000	
Meeting Expenses	\$ 3,216	
Indirect Costs	\$ 784	

- Community Match Funds reflect how Fish and Game monies will be used to support the total program



COUNTY OFFICE OF EDUCATION

Diane K. Siri, Superintendent • 809-H Bay Avenue • Capitola, CA 95010 • 408/476-7140 • FAX 408/476-5294



BOARD OF EDUCATION
Ms. Mary Bryant • Mr. Arnold Levine
Mrs. Kathy Mann • Mr. Robert Meyer
Mr. James Repoza • Mr. Dana M. Sales
Mr. Richard Swanson

June 5, 1997

Bill Andrews, Consultant
California Department of Education
Office of Environmental Education
Policy and Program Coordination Unit A
P.O. Box 944272
Sacramento, California 94244-2720

Dear Mr. Andrews:

On behalf of the Santa Cruz County Office of Education, I would like to offer my enthusiastic support of the Region Five C.A.R.E.S. environmental education program. Jack McLaughlin and Bill Lavvorn have outlined a program that will provide a network of services and resources that will motivate and challenge teachers to learn about their environment.

In addition to our financial support to the program, we have begun to gather community input and interest. In fact, the City of Scotts Valley, County of Santa Cruz, as well as several area environmental groups have pledged their support for formal training and resource development in environmental education throughout Region Five.

The protection and viability of our environment is of enormous concern to those of us at the Santa Cruz County Office of Education. It is our hope that the Region Five C.A.R.E.S. program will be an integral part of the new state-wide environmental education network being created by your office..

Sincerely,

Diane K. Siri
County Superintendent of Schools

LIFE LAB

Science Program

400

5 June 1997

1156 High Street
Santa Cruz, CA 95064
(408) 459-2001
(408) 459-3483 Fax
email: lifelab@zzyx.ucsc.edu

Bill Andrew;
California Department of Education
Office of Environmental Education
Policy and Program Coordination Unit A
PO. Box 944272
Sacramento, CA 94244-2720

Dear Bill,

I am pleased to be writing this letter in support the Santa Cruz County Office of Education (SCCOE) to become the Region Five CARES Hub. As a current education service provider throughout Santa Cruz, Monterey, San Benito and Santa Clara counties Life Lab looks forward to collaborating with the SCCOE in this important effort to improve and coordinate environmental education opportunities for this region.

As you may already know, Life Lab Science Program has an 18 year history of creating school gardens as outdoor classrooms for the study of environmental science, nutrition and more. Life Lab started here in Santa Cruz county in 1979 and since then has worked with over 1,000 schools in 36 states. We are located on the UCSC campus and are closely affiliated with the Department of Social Sciences including the schools of Education and Environmental Studies.

Life Lab fully supports the SCCOE in heading this exciting and important effort, and looks forward to supporting a environmental hub site for the region. Please let me know if you have any questions.

Sincerely,



Lisa D. Glick
Education Director



Ecology Action of Santa Cruz

P.O. Box 1188 • Santa Cruz, CA 95061-1188

(408) 426-5925 • Fax: 425-1404

email:ecoact@cruzio.com

June 5, 1997

Bill Andrews, Consultant
California Department of Education
Office of Environmental Education
Policy and Program Coordination Unit A
P.O. Box 944272
Sacramento, California 94244-2720

Dear Mr. Andrews:

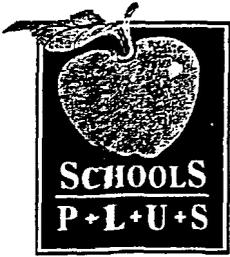
This letter is to confirm Ecology Action's support for the Region Five C.A.R.E.S. environmental education program. The development of a network with the charge of promoting information and coordinating regional efforts in environmental education throughout Santa Cruz, Santa Clara, Monterey and San Benito counties will improve both ecological awareness and competencies,

Founded on Earth Day in 1970, EA is a private nonprofit working jointly with private businesses and the public sector to reduce waste and conserve material resources. By designing and implementing public education and technical assistance programs, EA strives to instill environmental awareness and create pragmatic change toward a more sustainable local economy. EA has been a recipient of many awards over the last twenty-seven years, and was recently honored with the Santa Cruz County Sustainable Quality Award for overall excellence in environmental stewardship, contribution to the community and management practices.

Please call me directly at (408) 426-5925, extension 15, if you have any further questions.

Sincerely,

Virginia Johnson
Executive Director
Ecology Action



PUBLIC SCHOOLS
FOUNDATION
of Santa Cruz County

18/1/97 402

June 4, 1997

To Whom It May Concern:

SCHOOL
DISTRICTS

- Bonny Doon
- Happy Valley
- Live Oak
- Mountain Pacific
- Pajaro Valley
- Santa Cruz
- Scotts Valley
- Soquel
- Sacramento Valley

HONORARY
TRUSTEES

- Ernie Mc Pherson
- George Ow, Jr.
- Lloyd Williams

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- Diane Siri
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Ann McCrow
Executive Director

4306 Soquel Drive
Suite 8-C
Soquel, CA 95073
(408) 475-1889
FAX: (408) 475-1889
(Call first)

It is my pleasure to write this letter of recommendation for Bill Lovvorn to serve as Environmental Education Coordinator in an exciting new state-wide environmental education network funded in part by the California Department of Education.

The network will provide much needed support for environmental educators at all levels. Because of his past experience as a water conservation educator for the Public Works Department of the City of Watsonville, Bill is extremely well qualified to fulfill the responsibilities of the position. He has a strong background in curriculum and program development, and he is very knowledgeable about promoting partnerships to advance the most efficient use of regional resources.

Bill was a long-time member of the Santa Cruz County Industry Education Council which merged with Schools Plus over a year ago. He has continued to serve as an active and valuable member of the Business Education Initiative created out of the merger, and I have been able to observe first-hand the high level of commitment and professionalism he brings to this volunteer role. Bill has been instrumental in the success of our recent projects, most notably "Principal for a Day" where he not only coordinated a number of business-education exchanges but also served himself as a "guest principal" at two schools in the county. I am certain that Bill brings the same high standard of performance to all of his endeavors.

Environmental education is recognized as a vital component in the preparation of young people to be responsible and informed citizens of the future. As a past principal, he knows how to work successfully with schools to provide the resources and information necessary for a comprehensive program in this area. I wholeheartedly applaud his efforts and encourage you to support this worthwhile project.

Yours sincerely,

Ann E. McCrow
Executive Director



January 28, 1998

Mr. Matt Baldzikowski
Administrative Staff
County of Santa Cruz Fish and Game Advisory Commission
701 Ocean Street, Room 406B
Santa Cruz, CA 95060

Dear Matt,

The Coastal Watershed Council is pleased to submit the following grant proposal to the Santa Cruz County Fish and Game Advisory Commission. Our proposal requests \$4,481 in funding to support our Clean Streams Program currently operating in four watersheds in the County. Funds will be used for equipment purchase, development of monitoring protocols, and providing training to our volunteers. Over the last year and a half our program has provided baseline data on the chemical, physical, and biological conditions within Arana Creek, Soquel Creek, Corralitos Creek, and the San Lorenzo River. We would like to continue these monitoring programs as they can help to provide important data for Fish and Game personnel working to develop recovery plans for the Coho salmon and steelhead.

Should you have any questions concerning our grant request please contact me at (408) 4269012. Thank you for your consideration of our grant request, we look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read "Donna E. Meyers".

Donna E. Meyers
Executive Director

Santa Cruz County

Fish and Game Advisory Commission Funding Request

- I. Name of Group/Individual: Coastal Watershed Council
- II. Amount of Funding Request: \$4,481
- III. Name, Address and Phone Numbers of Contact Person:

Donna E. Meyers
 204 **Laguna** Street
 Santa Cruz, CA 95040
 (408) 426-9012

IV. Description of Proposed Project:

The Coastal Watershed Council has recently launched a five year **program** entitled the Clean Streams Program which focuses on establishing volunteer watershed monitoring projects in local rivers and creeks. Through the Clean Stream Program, CWC as created a network of volunteer stewards to conduct long term chemical, physical and biological monitoring in the watersheds of Santa Cruz County.

V. Objective:

The long term goal of the Clean Streams Program is to gather basic **information** on the biological and physical components of local watershed ecosystems and to share that information with local agencies and decision makers. Research and prioritization of watershed restoration projects will result from the monitoring done through the Clean Streams Program. Data from the Clean Streams Program is provided to the California Department of Fish and Game, the County of Santa Cruz, the Regional Water Quality Control Board, city councils and community groups.

VI. Background and history of your organization, and or the problem

The Coastal Watershed Council (CWC) was formed in 1995 as a public education **501(c)(3)** nonprofit corporation. CWC works for the preservation and protection of coastal watersheds through the establishment of community-based watershed stewardship programs and works in partnerships with schools, community organizations and local government. The Coastal Watershed Council emphasizes hands on **learning**— getting community members out into the watershed to learn about water quality, riparian and wetland ecosystems and the problems impacting our watersheds.

VII. How will the project be accomplished? (design specs)

Not applicable.

VIII-Budget to include the precise use of Grant monies.

Funds requested will be used for continued program support including developing training materials, conducting training workshops, and purchasing additional monitoring equipment and supplies for each of the four Clean Stream Programs currently underway.

Project Summary and Organizational Information

The Coastal Watershed Council

Formed in September 1995, the Coastal Watershed Council (CWC) is a public education 501(c)(3) nonprofit corporation. CWC advocates for the preservation and protection of coastal watersheds through the establishment of community-based watershed stewardship programs and works in partnerships with schools, community organizations and local government. The Coastal Watershed Council emphasizes hands on learning- getting community members out into the watershed to learn about water quality, riparian and wetland ecosystems and the problems impacting our watersheds.

Programs of CWC focus on three areas:

(1) *Education and Community Outreach:* CWC provides information about watershed curriculum to local teachers and tries to link teachers and community groups working in the watershed. Our outreach efforts focus on community groups, teachers and students, and citizens. CWC provides workshops and trainings for teachers and community members interested in learning more about volunteer monitoring and watershed protection.

(2) *Stewardship Programs:* The Stewardship Programs of CWC focus on the Clean Streams Program described below.

(3) *Watershed Protection* CWC is a member of the Monterey Bay National Marine Sanctuary Conservation Working Group and works with the Monterey Bay National Marine Sanctuary Water Quality Protection Program. CWC also keeps abreast of state and federal watershed conservation efforts and policy reforms and works with existing conservation organizations to develop educational and outreach materials on local watersheds.

Statement of Problem Being Addressed

According to the Central Coast Water Quality Control Board approximately half of the 1,976 miles of rivers and streams within the Central Coast region (including the Monterey Bay area) are considered impaired or unknown for designated beneficial uses. The rapid decline in the water quality of the region can be directly related to the lack of information that exists for our waterways. We cannot properly manage or restore waterways which we know nothing about.

Habitat assessment activities (bird, fish, plant, and macroinvertebrate monitoring) within Central Coast area watersheds are even more spotty and infrequent. Most habitat studies occur in response to a specific resource management question or proposed development project, and do not provide long term data collection or analysis. Long term habitat data is difficult to locate, especially on a watershed scale. Yet habitat assessment is critical for our local watersheds, as is demonstrated by problems such as endangered steelhead and Coho salmon populations, sedimentation, invasion of nonnative species, wetland alteration, and increasing incidents of illegal trash dumping and pollution.

To be truly comprehensive, existing federal, state, and local monitoring efforts around the Monterey Bay region need to be coupled with an effective volunteer monitoring program. With the designation of the Monterey Bay Sanctuary in 1992, it is now critical for our communities to come to an understanding that what we do in our watersheds has a direct influence on the health of the Sanctuary. Through the Clean Stream Program, CWC hopes to create such a network of volunteer grassroots groups to conduct long term monitoring, habitat monitoring, and education in the watersheds of the Monterey Bay region.

Project Description: The Clean Streams Program

The Coastal Watershed Council has recently launched a five year **program** entitled the Clean Streams Program which focuses on establishing volunteer watershed monitoring projects in local rivers and creeks. The Clean Streams Program is available to any community group or school interested in assessing and improving local waterways. Goals associated with the Clean Streams Program include:

- Establishing a baseline and documenting water quality and changes over time
- Screening for potential water quality problems and sources
- Providing data for areas where data gaps may exist
- Educating the local community and stream users *to encourage* pollution prevention and habitat preservation
- Showing public officials that local citizens care about the condition and management of their watershed resources
- To empower the community to become long term stewards of their local streams and creeks through problem identification and habitat restoration.

The long **term** goal of the Clean Streams Program is to gather basic information on the biological and physical components of local watershed ecosystems and to share that information with local agencies, decision makers, and the Monterey Bay National Marine Sanctuary. Research and prioritization of watershed restoration projects will result from the monitoring done through the Clean Streams Program. Data from the Clean Streams Program is provided to the California Department of Fish and Game, the County of Santa **Cruz**, the Regional Water Quality Control Board, city councils and community groups.

CWC currently administers the Clean Stream Program in four watersheds: Arana Creek, **Soquel** Creek, Corralitos Creek and the San Lorenzo River. For each of these watersheds, CWC has developed monitoring programs which collect critical baseline information about the watersheds and their waterways. Partners in these projects include the Santa Cruz County Resource Conservation District, the San Lorenzo River Institute, the Friends of Soquel Creek, the Arana Gulch Watershed Alliance, the City of Santa Cruz and the Santa **Cruz** County Outdoor Education School. These programs currently operate with 30 volunteers. The Corralitos Creek Clean Streams program involves over 4,000 school children annually through the Santa Cruz County Outdoor Education School. These programs have been established through accomplishing the following tasks:

1. Conducting watershed assessment and problem identification studies for each watershed
2. Identifying water quality testing locations and parameters for each watershed
3. Training volunteers through a **4-week** intensive training program
4. Administering the volunteer program
5. Establishing a database to record and analyze data collected

Additional tasks which need to be completed over the next year include:

1. Expand existing monitoring programs to include habitat assessment activities such as vegetation mapping and monitoring of restoration sites.

2. Expand existing monitoring programs to include physical monitoring including stream flow and sedimentation monitoring as recommended by the California Department of Fish and Game.
3. Expand existing monitoring programs to include California Department of Fish and Game macroinvertebrate surveys.
4. Provide enrichment trainings for volunteers.

To support the Clean Streams Program in these watersheds, CWC is requesting \$4,481 from the Santa Cruz County Fish and Game Advisory Commission. Specifically, this request will be used for continued program support including developing training materials, conducting training workshops, and purchasing additional monitoring equipment and supplies for each of the four Clean Stream Programs currently underway.

Project Budget - Requested Funds

<u>ITEM</u>	<u>COST</u>
Monitoring Equipment	
Digital Turbidity Meter	850
Current Meter	618
Top setting rod	380
Aquatic d-frame net	64
Field Microscope	35
Sample wash bottles	15
Thermometers	25
No. 35 Standard Sieve	40
Entomological forceps	29
Water Quality Replacement chemicals	<u>175</u>
	\$2,231
Training Materials/New Protocols	
Manuals	250
Field training	<u>1500</u>
	\$1750
Quality Assurance/Quality Control Lab Analysis for samples	\$500
TOTAL GRANT REQUEST	\$4,481

FISHERMEN'S ALLIANCE – MONTEREY BAY CHAPTER

Mailing Address:

885 Abrego Street
Monterey, CA 93940
(408) 373-3720
Fax (408) 373-8098

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Executive Director - Richard L. Hughett

January 19, 1998

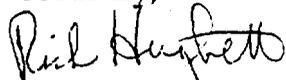
Mr. Matt Baldzikowski
County of Santa Cruz Fish and Game Advisory Commission
Santa Cruz, CA.

Dear Matt,

Attached is our funding request. Russ Colwell and I plan to attend your February 5th meeting and make a presentation regarding our study. Please let me know how long we can have for your "show", and if you need additional information.

Thanks for your help and continued support.

Cordially,


Rich Hughett

FISHERMEN'S ALLIANCE – MONTEREY BAY CHAPTER

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885 Abrego Street
Monterey, CA 93940
(408) 373-3720
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SANTA CRUZ COUNTY FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

I. **Name of Group:** Fisherman's Alliance of Monterey Bay

II. **Amount of Funding Requested:** \$8000.00

III. **Name, Address and Phone Number of Contact Persons:**

- a. Richard L. Hughett, 885 Abrego Street, Monterey, CA 93940
Phone: 408/373-3720 FAX: 408/373-8098
- b. Russ Colwell, P.O. Box 55, Moss Landing, CA 95039
Phone: 408/633-3359 FAX: 408/633-6279

IV. **Description of Proposed Project and Objective:** This requested funding will be used for the second year of research study of California Sea Lion and harbor seal interaction with our dwindling salmonoid fisheries. This study will again be developed and conducted by California State University's Moss Landing Marine Laboratories, under the direct supervision of Dr. James T. Harvey, the noted professor of marine biology from the university. The research will be broken into four phases: 1) a study of sea lion and harbor seal interaction with our steelhead fishery as these fish return to spawn in the native coastal rivers; 2) a study of fecal samples to determine the food source; 3) and an offshore study of sea lion/ harbor seal interaction with boat fishermen and their hooked fish and other observed interactions with resident fish populations; 4) and a study of sea lion interaction with fishermen and boats netting squid. We will also be conducting aerial surveys every month throughout the year to determine the location and numbers of sea lions and seasonal changes. This data will be compiled into a final report to be distributed to the National Marine Fisheries Service, member of the U.S. Congress, marine biologists and other interested parties, as well as our funding agencies, for review, hopefully to become the foundation study that will lead to the creation of a long term population maintenance program for the California Sea Lion.

This funding will help nationally-recognized marine biologists and scientists to gain knowledge about the feeding habits of sea lions and harbor seals along our coastline, and what effects their feeding has on the decreasing populations of our salmonoid fisheries.

Also, if an imbalance of nature is being created by the ever-increasing number of sea lions, in contrast to the decrease in salmonoids to the level that they are now considered threatened or endangered along the California coastline.

V. Background and History of your organization, and or of the problem: The Fishermen's Alliance of Monterey Bay was founded in 1995 by a group of sport and commercial fishermen who are very concerned about the over-population of California Sea Lions in Monterey Bay in and areas up and down the Pacific Coast of the United States. Our mission statement is attached. The F.A.M.B. is an on-going organization and our efforts continue. Since our creation we have been working the educate the public and our governmental representatives and agencies about this disastrous situation, created by a sea lion population that grows between 7% and 10% a year. Most of the natural predators that a one time kept the sea lion population at a much smaller growth rate are now gone, leaving the sea lion at the top of the food chain and creating a major problem in the balance of nature in our oceans. And, this problem does not only exist along our coastline, for sea lions have now expanded their area of hunting in search of food. They now travel miles up our coastal rivers and are also in the waterways of the Sacramento Delta. They have become more aggressive toward humans, and have become a major threat to the safety of anyone venturing out in the ocean where fishing activities occur.

VII. How will the project be accomplished? The details for the interaction study were developed by Dr. Harvey of the Moss Landing Marine Laboratories. The plan of action and project timing are as follows:

- | | |
|---|----------------------------------|
| a) November 1997 through February 1999: Studies of sea lion/ steelhead interaction in our coastal rivers. | - 860 hours |
| b) November 1997 through March 1999: Offshore study of sea lion/ salmon interaction | - 1302 hours |
| c) April 1998 through October 1998: Offshore study of sea lion/ squid fishery interaction | - <u>623</u> hours
2785 hours |

This grant will help fund the hours of actual collection of data, its analysis, compilation, supplies and the creation of the final documents. It will not include funding for housing or meals.

To complete this work in a timely manner, we have developed the attached budget. The grant from your association to help fund this very important study. Many local commercial fishermen fish our coastal waters and have been effected by the sea lion problem, and therefore, we hope you will approve our request. Of course, your association will receive copies of all completed data and reports, as we know the information they will contain will benefit every organization concerned about fish and game issues.

In summary, the F.A.M.B. views this study as the opportunity to truly learn the impact of California Sea Lions on our dwindling salmonid populations. We are working with some of the finest marine biologists in the nation, with the support of

internationally recognized, environmentally-conscious organizations. This study will be presented to the National Marine Fisheries Service and the U. S. Congress. It will give us the strong position we need to get the federal government to act on our concerns, to make recommendations for the control of the ever-expanding California Sea Lion population along the entire coast of California, Oregon and Washington.

We appreciate your consideration of this request, and hope you will grant us the funds needed to help make this important study a reality.

In summary, the F.A.M.B. views this study as the opportunity to truly learn and validate our contention that California Sea Lions are destroying our salmonoid populations. We will be working with the finest marine biologists in the nation, with the support of internationally recognized, environmentally-conscious organizations: the Monterey Bay Aquarium and the Monterey Bay National Marine Sanctuary. This study, as presented to the American Fisheries Society, can give us the strong position we need to get the federal government to act on our concerns. We appreciate your consideration of this request, and hope you will grant us the funds needed to make this important study a reality.

VII. Budget to include the precise use of grant monies. The actual work budget as presented to us by Dr. James Harvey is attached.

11. Salmon Season (April - September)

Observation Hours -	200 hrs. @ \$8/hr. =	\$1600
	532 hrs. @ \$7 hr. =	\$3724

April - Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 May - Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 Commerical (36 hrs.-boat, 56 h-dock)
 June - Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 Commerical (12hrs.-boat, 28 hrs.-dock)
 July - Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 Commerical (23 hrs.-boat, 28 hrs.-dock)
 Aug.- Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 Sept. - Sport (18 hrs.- boat, 9 hrs.- dock)
 CPFV (30 hrs.- boat, 19 hrs.-dock)
 Commerical (36 hrs.-boat, 56 h-dock)

Scat Collection and Hard Part Identification-	50 hrs. month @ \$8 hr. =	\$2400
Supplies (Gloves, bags, etc.)=		s 100

Data Analysis -	40 hrs. month @ \$8/hr. =	\$1920
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Subtotal =	\$9.744
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San Jose State University Foundation Budget Summary

Salaries -	740 hrs. @ \$8 hr. = \$5920 - (\$5920*0.05) =	\$6216
	532 hrs. @ \$7 hr. = \$3724 - (\$5920*0.05) =	\$3910

Supplies -	\$ 100	\$100
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Total Direct Costs	\$10226
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Indirect Costs -	\$10226 * 0.26 =	\$2659
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Total Cost	\$12.885
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III. Squid (April - October)

414

Observation Hours - 483 hrs @ \$7/hr. = \$3381

Dock - 15 days x 3hrs. = 45 hrs.

Boat - 2 days x 12 hrs. = 24 hrs.

Data analysis - 20 hrs. / month @ \$8/hr. = \$1120

* Scat collection and identification, and aerial surveys for the salmon project can be incorporated in squid fisheries analysis.

Subtotal \$4501

San Jose State University Foundation Budget Summary

Salaries - 383 hrs. @ \$7 hr. = \$3381 + (\$3381 * 0.05) = \$3550

140 hrs. @ \$8 hr. = \$1120 - (\$1120 * 0.05) = \$1176

Total Direct Costs \$-1726

Indirect Costs - \$4726 x 0.26 = \$1229

TOTAL COST \$5955

IV. Aerial Surveys

Steelhead - 1 survey month (Nov.-March) for 2.75 hrs @ \$120/hr. =	\$1650
Survey Hours for 2 observers for 2.75 hrs. @ \$8/hr. =	s 220
Supplies (Film, Film Processing, etc.) @ \$50/mo. =	\$ 250

Salmon - 1 survey month (April-Oct.) for 2.75 hrs @ \$120/hr. =	\$2310
Survey Hours for 2 observers for 2.75 hrs. @ \$8/hr. =	\$ 308
Supplies (Film Film Processing, etc.) @ \$50/mo. =	\$ 350
Subtotal =	\$5088

San Jose State University Foundation Budget Summary

Salaries - 66 hrs. @ \$8/hr. = \$528 - (\$528*0.05) =	\$554
Supplies - \$600	\$600
.&-plane. Pilot Fuel =	\$3960
Total Direct Costs	\$5114
Indirect Costs - \$5114 * 0.26 =	\$1330
Total Cost	\$6444

SUMMARY OF CCSTS:

1) Steelhead season	- \$11,557.00
2) Salmon Season	12,885.00
3) Squid	5,955.00
4) Aerial Surveys	6,444.00
	<u>\$36,841.00</u>

FISHERMEN'S ALLIANCE – MONTEREY BAY CHAPTER ⁴¹⁶

Mailing Address:

885 Abrego Street
Monterey, CA 93940
(+08) 373-3720
Fax (+08) 373-8098

Officers

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Vice President - Phil Monroe
Secretary - Jack Harrell
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Pete Gouge Al Martins
Peter Kracht Bruce Morse
S a l Oliveri
Executive Director - Richard L. Hughett

MISSION STATEMENT

The mission of the Fishermen's Alliance of Monterey Bay is to inform and educate the public and our governmental agencies about the problems that have been created by the over-population of California Sea Lions within Monterey Bay and along the West Coast of the United States. This environmental imbalance has contributed to the devastation of one of our most important natural resources, our saltwater fishery, especially migrating salmon and steelhead, and has also created a very hazardous situation for all saltwater boat fishermen, whose safety is now threatened by the actions of these aggressive mammals. And, the loss of saltwater fish to sea lions has contributed to the elimination of many jobs in the commercial and sport fishing industries, thereby affecting the overall economy of our coast counties and states.

SANTA CRUZ COUNTY

FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

I. Name of Group/Individual:

FRIENDS OF SANTACRUZ STATE PARKS RANGER LINDA HITCHCOCK

II. Amount of Funding Requested: 250.00

III. Name, Address and Phone numbers of Contact Person:

RANGER LINDA HITCHCOCK OR ROBERTA HUNTER
FRIENDS OF SANTA CRUZ STATE PARKS
144 SCHOOL ST SANTA CRUZ, CA 408-429-1840

*IV. Description of Proposed Project:

TO OFFER CAMPFIRE PROGRAMS ONCE A WEEK ON THE MONTEREY BAY MARINE SANCTUARY FROM MAY 15 TO SEPTEMBER 15 AT SUNSET BEACH, MANRESA BEACH AND NEW BRIGHTON BEACH.

*V. Objective:

TO INCREASE PUBLIC AWARENESS OF THE MONTEREY BAY AND THE DIVERSE NUMBER OF SPECIES FOUND THERE.

*VI. Background and History of your organization, and/or of the problem
THE STATE-PARKS CONDUCT CAMPFIRE PROGRAMS AT THEIR COASTAL UNITS DURING THE SUMMER SEASON, AND THE STAFF HAS REALIZED THAT MANY OF THE PARK VISITORS HAVE LITTLE OR NO KNOWLEDGE OF THE AMAZING ANIMALS THAT ARE FOUND IN THE BAY. THIS PROGRAM WOULD PROVIDE AN INTRODUCTION.

*VII. How will project be accomplished (design specs/plans, if applicable)

THIS WOULD BE ACCOMPLISHED BY HAVING A WEEKLY PROGRAM ON THE MONTEREY BAY SANCTUARY.

*VIII. Budget to include the precise use of Grant monies

EDUCATIONAL SLIDES ON KELP FORESTS, ROCKY SHORE, SANDY SHORES AND OTTERS - 20.00 EACH = 80.00
SLIDE CARRIAGE - 20.00
MAPS AND POSTERS - 30.00
PROPS, SHELLS, PUPPETS= 75.00
EDUCATIONAL HANDBOOK= 25.00 TOTAL = 250.00

*Give a brief description under each section and use additional sheets to fully explain your proposed project.

DH/kh
FGFNDREQ



TOTAL P. 04

Grant Request for funding **from** the Fish and Game Advisory Commission
from the Friends of Santa Cruz State Parks

1998 Summer Campfire Program Series on the Monterey Bay Marine
Sanctuary at Sunset State Beach, Manresa Uplands State Beach and New
Brighton State Beach

Background- The Friends of Santa Cruz State Parks is a non-profit
organization that supports the interpretive programs of the coastal State Park
units in Santa **Cruz** County. State Park Ranger Linda Hitchcock will be the
lead person on this project.

Proposal- The Santa Cruz State Park units of Sunset Beach, Manresa Beach
and New Brighton Beach are located along the shore of the Monterey Bay
which is a National Marine Sanctuary. Over the past 3 years as a State Park
Ranger in these units Ranger Hitchcock has discovered that very few of the
people who visit the beach are aware of the Marine Sanctuary and the wide
variety of animals that live in the Bay. Ranger Hitchcock recently attended a
10 week course put on by Save Our Shores to learn more about the Sanctuary
and the issues that surround it such as kelp harvesting, vessel traffic and the
fishing industry. She would like to develop a campfire program that would
introduce the campers who visit our parks to the animals, habitats, laws, and
issues that occur in the Monterey Bay Sanctuary. Our average attendance at
these programs is about 100 people per program. She would propose doing 1
program a week **from** May 15th to September 15th for a total of 18 weeks. The
total estimated attendance would be 1,800 people.

FOSCSP is requesting \$250.00 to purchase supplies needed to develop
these programs. The interpretive and ranger **staff** would provide the labor to
give the programs. The supplies needed for the program are **as** follows:

Educational slide sets from the Monterey Bay Aquarium :

Rocky Shore - \$20.00

Sandy Shore - \$20.00

Kelp Forest - \$20.00

Otters- \$20.00 = total \$ 80.00

Slide Carriage to hold the slides = \$20.00

Maps of the Bay and Dolphin Poster and lamination and framing
of both posters = \$30.00

Banner to advertise program = **\$20.00**

Props such as shells, puppets, costumes = \$75.00

Monterey Bay Aquarium handbook on Marine Education = \$25 .00

Total = \$250.00

Requested by

Friends of Santa Cruz State Parks for

Ranger Linda Hitchcock

Sunset Beach

**SANTA CRUZ COUNTY
FISH ANTI GAME COMMISSION FUNDING BEQUEST**

I. Name of Group/Individual:

The Pelagic Shark Research Foundation. (PSRF) A Local Non-profit research, education, and environmental advocacy group. Founded in 1990.

II. Amount of Funding requested: \$1000.00

III. Name, Address and Phone Numbers of Contact Person:

Executive Director/CEO Sean R. Van Sommeran.
PSRF, 333 Lake Ave Ste I-I, S.C. Maritime Center, S.C. Yacht Harbor, Santa Cruz Ca 95062.
Tele# (408)459-9346. E-mail: psrf@pelagic.org Web Site: WWW.pelagic.org

IV. Description of Proposed Project: Since the PSRF was founded in 1990 its principle and primary project has been the collection, sampling and tagging of the highly migratory species of pelagic sharks that inhabit the Monterey Bay on a seasonal basis. Every Spring and summer PSRF student volunteers take to the waters of the outer bay and catch, tag and release Blue, Mako and Thresher sharks in cooperation with the CDFG shark tag and release program which is based in Long Beach CA. Researchers and Anglers working with PSRF have placed in the top 5 shark taggers in the State since 1990. The Data generated through such studies help scientists and management officials to better understand and manage this important resource. In 1993 a California tagged blue shark was recovered off of Midway Island aboard a Japanese long-lining vessel. The shark had been tagged and released off of California in 1990. Such Data is crucial to understanding the movements, range and seasonality of this poorly understood species. Pelagic sharks are heavily impacted in the drift gill-net and long-line fisheries. In addition to tagging pelagic sharks with CDFG tags, volunteers with the project attach transmitters and other types of tags as well as collect tissue and blood samples from pelagic sharks for analyzing the blood chemistry and DNA/genetic content of these various species. The samples can be compared with samples being taken from local benthic and estuarine sharks such as leopard and seven-gill sharks. Trace organo-chlorines, PCB's, Metals and other pollutant loads are catalogued in the sharks tissues and can yield insights into local marine pollutant levels that can be compared over time. Aside from assisting research scientists and wildlife officials, the project serves as an excellent study platform for marine science students, sportsmen and nature lovers. This volunteer effort is based at the Santa Cruz Yacht Harbor and has been very successful in terms of educating the public about Marine Conservation. Student volunteers from local high schools and colleges are able to get hands on field experience and exposure to a species they would not typically come across even as a graduate student.

V. Objectives: The objective of the project is to gain deeper insights into the poorly understood world of shark behavior, seasonality, abundance (gender ratio's) and range through the tagging and sampling of pelagic sharks within the Monterey Bay National Marine Sanctuary. By involving the public in this project as volunteer participants, the project is able to educate the angler, student or naturalist in the proper methods of collecting, handling, and sampling of marine fish and sharks. Having completed 11 term as a PSRF volunteer, an angler will better know how to ID species, how to use less invasive tackle and how to successfully release a tagged fish or shark. The Project is a supporter of the California Dept. of Fish and Game's, Tag and release program and has tagged over 3000 thousand sharks in the Monterey bay. References available upon request.

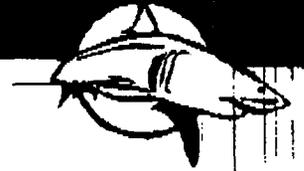
VI. Background and History of YOUR organization and the project: PSRF was formed in 1990, and was founded as a non-profit 501 c3 in 1990. More info attached.

VII. How will project be accomplished: By utilizing the methodologies and protocols developed by the California Dept. of Fish and Game's Pelagic Shark Tagging Project in Long Beach CA.

VII. Budget to include the precise use of grant monies: Grant monies will be used for fuel expenses, educational and instructional literature, sampling supplies and tagging equipment. \$500.00 for fuel. \$300.00 for tagging gear and sampling supplies. \$200.00 for printing and postage.

The Pelagic Shark Research Foundation

Founded 1990 Research Education Advocacy



- **Focus:** Research and conservation of the over 20 species of sharks in Monterey and SF Bay
- **Tagging programs:** Help scientists manage and protect our natural resources
- **Stranding Unit:** the only shark and marine predator rescue unit in the nation
- **Fast Response Team:** Vessels dispatched to document offshore wildlife phenomenon
- **PSRF footage and resources** relied upon by marine science institutions and academic projects.
- **Lecture presentations:** offered free to Kindergarten through University level
- **PSRF:** featured on Discovery Channel, CNN and international media

Please Support Team Pelagic
 T-Shirts for sale at:
Sleepy Dragon Bistro & Book
Shamrock Charters
Save our Shores
 or order at www.pelagic.org

The **Santa Cruz** Pelagic Shark Research Foundation is a non-profit research, education and advocacy group

that was founded in 1990. The foundation sponsors and supports local marine science projects relating to sharks and marine predators. The central eastern Pacific



Photo by Dr. David Casper

and the Monterey Bay National Marine Sanctuary are a seasonal migration super highway for huge numbers of marine mammal and fish. The surrounding waters are a veritable oceanic "Serengeti" and our area is widely being touted as the future "Silicon Valley" of marine sciences. Tremendous bio-diversity attracts lots of marine predators like sharks and killer whales.

The Pelagic Shark Research Foundation supports seasonal research projects that focus on most of the more than twenty different species of sharks that inhabit the Monterey and San Francisco Bays. Projects include tagging and releasing sharks in the wild in order to gain valuable insights into their movements, migrations and population dynamics. The data gathered by PSRF is crucial to the ongoing efforts of wildlife protection and management. Our tagging programs and the data that they

generate help scientists and wildlife officials to protect our natural resources.

We also aim to dramatically reduce shark sportfishing mortality by educating anglers and instilling the "catch and release" ethic over the "kill sport" ethic, where the sharks are most often killed and not even utilized for food.

PSRF sponsors a Stranding unit that responds to washed-up or beached sharks and whales. While there are several organizations that specialize in recovering marine mammals and birds that have washed ashore, there are none other than Pelagic that specialize in covering shark and marine predator strandings and events. PSRF fields a Fast Response Team with the capability of reacting swiftly to reports of offshore wildlife phenomenon and dispatching research vessels to the site or event in rapid order. Phenomenal wildlife events which often occur within the Monterey Bay are rarely recorded or documented by scientists. Indeed, unlike PSRF, most Bay area labs are closed on weekends. Basking sharks, giant sea-turtles, blue whales, killer whales and white sharks are but a few of the many creatures that

Team Pelagic has been documenting. The Pelagic Fast Response Team takes pride in its camera coverage of killer whale attacks on gray whales and white sharks feeding on elephant seals. PSRF footage, personal accounts and resources are shared with and utilized by area marine science institutions and academic projects. PSRF has appeared on the Discovery Channel, CNN, and is often featured in local, national and international media. The Foundation visits classrooms from Kindergarten through the University level and offers video/slide lecture presentations free of charge. PSRF has been active in the local community by fostering the Annual Santa Cruz Shark Festival and other events focusing on the education of youngsters. The Foundation also takes local at-risk youth out for boat rides and shark and whale watching expeditions in hopes of giving them positive perspectives on life and the natural world. Visit our Web site at www.pelagic.org to get more info.



Photo by Scott Davis

Post-it Fax Note 7672

To **Matt Boldzikowski**
Company **Co. Fish & Game Advisory Commission**
Location

No. of Pages **3** Today's Page **30/98** Time **3:30**
From **Jessica Denevan**
Company **SURI**
Location

Fax # Telephone # Fax # Telephone # Dept. Charge Telephone #

Comments **Let me know if I can provide you with anything else. Thanks!**
Jessica

SANTA CRUZ COUNTY

FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

- I. **Name of Group:**
The San Lorenzo River Institute
- II. **Amount of Funding Requested:**
\$1,350
- III. **Name, Address and Phone Numbers of contact Person:**
Jessica Denevan (408) 426-0156
Director
c/o the William James Association
303 Potrero St., Suite 12B
Santa Cruz, CA 05060
- IV. **Description of Proposed Project:**
The San Lorenzo River Restoration Institute is a community-based coordinator of watershed education and restoration. The River Institute's work facilitates cooperative management of the San Lorenzo — one of the primary economic and environmental resources of the region — and involves youth as an important part of the process. Our K-12 educational program, *the Picture Dictionary of the San Lorenzo River Watershed* is a collaborative program to expand educational activity connected with the San Lorenzo River.

The program has a dual nature: a production process that involves students directly in producing the images and descriptions; and a compiled version of the Dictionary for classroom and home use, updated periodically in various formats. The Dictionary consists of images of plants, wildlife, and other features of the river, accompanied by text descriptions. The production process serves to enhance students' observation, research, and creative skills. The subject matter is integrated with K-12 school curricula and teaching goals.

In its first two years, the pilot phase of the Picture Dictionary has evidenced ample proof of concept. Initiated at the suggestion of several local teachers, the Picture Dictionary program has provided numerous schools and community youth groups with lesson plans and in-class educational activities coupled with guided field studies. An interim Picture Dictionary, with versions on the World Wide Web and in print, is currently in use by at least 11 classrooms and the public at large. The www site receives an average of 20 of visits per day (chiefly from schools who use it as a reference).

The program provides guidance, coordination, resources, and staff, in order to support participating teachers in their efforts to provide interesting, engaging, and challenging subject material and activities for their students. It has established a workable and dynamic format in which student generated material (water quality monitoring data, class writing, art projects, and photographs from guided explorations of the watershed), are assembled and published to create a tool that can be used in schools and in homes throughout Santa Cruz.

V. Objective:

Summary: To **facilitate watershed educational activities, offer teacher resources, and help promote river stewardship in 16 to 20 classes (representing over 300 students) from schools up and down the watershed.**

Objective Outline:

- supplement **existing educational** opportunities with river-theme field studies, **art, and science** projects;
- **contribute to the accumulation** of baseline data **available on the river** to aid **community's ability** to understand and solve problems
- **Intensify** the learning **experience** for students by **involving them in sharing their knowledge of the river with other students** and their **communities**;
- build a cumulative repository of observations, **scientific data, and artistic expressions** about the river, available **for schools throughout the area**; and
- enhance **students' understanding of the watershed** and their **place in caring for it**
- create an **updated** version of the **Picture Dictionary on-line** and in print with material generated by students **this year.**

VI. Background and History of your organization, and or of the problem:

me San Lorenzo River Restoration Institute has a history of five years of active and **eff active** work in **service of the** goal of restoring the San Lorenzo River. Our founder Bruce Van Allen **has ten years** professional and volunteer experience in **riparian restoration, and has been a key player in the City and Army Corps of Engineers' planning process since 1982. He continues to oversee the work of the Institute today.**

There **is an increasing** emphasis among **agencies** charged with environmental **protection on using** watersheds as a unit of **measure** for assessing overall environmental health. **The River Institute's** work supports this emphasis by facilitating the coordinated management of **our resources, the restoration of damaged habitat, and the re-establishment of the populatbns of fish, birds, and wildlife that once thrived here. The Picture Dictionary Program involves** youth as an important **part** of this process taking **place** in their own **backyards.**

VII. How will the project be accomplished:

We are requesting funding for a **project** which is already underway, but needs **further** financial support. The program is **adminstrated by** Jessica Denevan with the support of a part-time **staff** member Annette Reid, who is a **credentialed** life science teacher. **The River Institute relies on a large body of consistently active volunteers who work on many aspects of program implementation--from establishing our program monitoring protocols and coordinating teachers, to leading field-trips and doing in-class projects. We also rely on student interns from UCSC and Cabrillo.**

We are **also** partnering **with** several other organizations to **accomplish the work** we have outlined here. With the Coastal Watershed Council we are incorporating our students' **monitoring efforts** into their Central Coast Salmon and Steelhead Initiative, and with the Watershed Educators Group convened by the Monterey **Bay National Marine Sanctuary**, we are working to establish a coordinated **internet watershed information web site for** the region.

Teachers who oign up with the program receive training, program guidelines, and a password **enabling** them to enter their students' data and other **class** work onto the

Picture Dictionary on-line. They also establish a class "site" on the river or a tributary to consistently visit with their class, Teachers and program staff communicate regularly to collaborate on projects, keep posted on developments in the watershed, and to take advantage of program services. We have a web bulletin board where they can get updated and post messages—there is also a web bulletin board with a site for each class so students can communicate with each other.

Program services are on a first come first serve basis, with an emphasis on providing a well-rounded set of activities with each group of students (based on the needs of the individual teacher). We encourage some form of consistent monitoring at each class' chosen site, and the resulting data's entry into the web site. Protocols for monitoring, and program guidelines and resources for teachers are being established this year so that soon we will have a model program which can be used by other watersheds and other communities.

VIII. Budget to include the precise use of Grant

monies: (see attached Budget Breakdown)

Picture Dictionary

Phase Two Program Costs

Budget Breakdown

LINE ITEMS	BUDGET EXPENSE
Printing & Copying:	
Updated Picture Dictionary -print version	
(20 copies -- spiral bound, color, approx. 20 pg. ea.)	400
other program materials	100
Sub Total:	550
Class Materials:	
portfolios & lamination	160
resource materials/publications	50
material8 --aqua viewers for ea. class	120
misc. supplies	30
Sub Total:	360
Misc. Program Costs:	
postage	120
film & developing	200
technical support: contract services	300
Sub Total:	620
TOTAL BUDGET:	\$1,530

San Lorenzo Valley High School

426

6134 Highway 9, Felton, CA 95018



Principal	(408) 335-4425
RAY SHU ^{RS} Principal Assistant	(408) 335-4722
BR VICE PRINCIPAL	(408) 3364721
FAX	(408) 336-1 631

September 21, 1997

To whom it **may concern;**

I would **like** to express **my** appreciation for the important work being undertaken by the San Lorenzo River Restoration **Institute (SLRRI)**, as well as my plans to work collaboratively with them on one of their exciting young projects.

I am a science teacher of **12** years at San Lorenzo Valley **High School** in Santa **Cruz** County and one of **the** originators of the award-winning River Project in use at all of the 7 district schools. **The** River Project has received approximately \$20,000 in grants and a California State Golden Bell award for excellent programs in **1995**.

This year as a 1997/98 recipient of the **Christa McAuliffe** Fellowship, I **have** been awarded \$40,000 to support **my** work in developing a K-14 career pathway in Environmental Technology. This pathway, using the San Lorenzo River watershed as its focus, **will** train students in the **use** of technologies (Geographic Information Systems mapping — or **GIS**, Multimedia, **Image** Processing, **environmental** analysis equipment) to monitor, analyze and communicate **data** and solve problems in **their** watershed. I will be collaborating with **SLRRI** in several aspects of this work.

There is a definite need for watershed-related educational opportunities for local kids, and for support for teacher implementation of these projects within the San **Lorenzo** Valley **School** District and beyond. As a teacher I appreciate **SLRRI's** emphasis on education as a **key** part of the strategy for restoration of our river. And one of the River Institute's newest projects — the Picture Dictionary of **the** San Lorenzo River Watershed — **dovetails** with my work and will augment and enhance the resources available to teachers.

The Picture Dictionary project is very relevant to **the** work **I am** doing this year, as well as to the efforts of the San Lorenzo River Caretakers (a coordinated resource management planning group), the Coastal Watershed Council, the Salmon and Trout Education Program and the **Monterey** Bay National Marine Sanctuary (**MBNMS**).

The Picture Dictionary shows great *promise of advancing watershed monitoring efforts and public awareness, as well as providing a valuable resource for local teachers and kids.*

For these reasons I will be using the Picture Dictionary as a teaching tool in my **classes in the upcoming year**, My students will be involved in developing content and data for the Picture dictionary — by photographing and communicating our river field work. I will also be sharing information and ideas with **SLRRI** for how best to utilize the new technologies, and the data generated by my students. We will be collaborating on how best to incorporate them into the Picture Dictionary to make it a versatile and functional tool with a wide scope and relevance to this community's ability to meet its environmental goals.

In using the river in our backyard as a basis for their studies, students gain a context for what they are learning and a sense **of involvement and purpose**. They **are** able to touch, explore, analyze, and even influence, the **life** of their watershed. This method of learning creates motivated and empowered students who will become better stewards of our environment in the future.

I have seen the many positive results of the River Institute's efforts over the last five years, including: the River Festival in 95, **SLRRI's River Forums**, and the Water Quality Data **Entry Form** they developed on the Internet. I have worked **with Bruce Van Allen, SLRRI'S Founding Director, since 1986**.

I have been very impressed by their vision, the degree of expertise they **bring to their work, and their strong working relationships within our community**; especially considering their volunteer staffing and a very limited budget,

I hope you will look favorably on the Picture Dictionary project which, in its infancy, is already being enthusiastically received by teachers at many schools in our county. I have every confidence in this organization's ability to accomplish their goals for the future. I am looking forward to offering my support to their efforts and being involved in **what I am sure will be a significant and meaningful contribution to our schools and our Monterey Bay community**.

Sincerely,



Jane Orbuch
San Lorenzo Valley High School
7105 Hwy. 9
Felton, CA 95018
408-335-0731

428
310

1877