

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission: <input type="radio"/> Preapplication <input checked="" type="radio"/> Application <input type="radio"/> Changed/Corrected Application	* 2. Type of Application: <input type="radio"/> New <input checked="" type="radio"/> Continuation <input type="radio"/> Revision	* If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify) <input type="text"/>
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* 3. Date Received: <input type="text" value="10/02/2006"/>	4. Applicant Identifier: <input type="text"/>
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5a. Federal Entity Identifier: <input type="text"/>	* 5b. Federal Award Identifier: <input type="text"/>
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State Use Only:

6. Date Received by State: <input type="text"/>	7. State Application Identifier: <input type="text"/>
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8. APPLICANT INFORMATION:

* a. Legal Name:

* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text"/>	* c. Organizational DUNS: <input type="text"/>
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d. Address:

* Street1:
Street2:
* City:
County:
* State:
Province:
* Country:
* Zip / Postal Code:

e. Organizational Unit:

Department Name: <input type="text"/>	Division Name: <input type="text"/>
--	--

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: * First Name:
Middle Name:
* Last Name:
Suffix:

Title:

Organizational Affiliation:

* Telephone Number: Fax Number:

* Email:

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9. Type of Applicant 1: Select Applicant Type:

M: Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

National Oceanic and Atmospheric Administration

11. Catalog of Federal Domestic Assistance Number:

11.429

CFDA Title:

Marine Sanctuary Program

*** 12. Funding Opportunity Number:**

* Title:

FY07 California Bay Watershed Education and Training Program-Meaningful Watershed Education

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

*** 15. Descriptive Title of Applicant's Project:**

CWC's Get Outdoors! (GO!) Program will provide meaningful learning experiences to 230 4th and 5th grade students at Valencia School and Landmark Elementary in Pajaro Valley Unified School District

Attach supporting documents as specified in agency instructions.

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16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="54,827.04"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="49,988.52"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="104,815.56"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- a. This application was made available to the State under the Executive Order 12372 Process for review on .
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

- Yes
- No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

**** I AGREE**

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

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*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. CA BWET Monterey	11.429	\$	\$	\$ 54,827.04	\$ 49,988.52	\$ 104,815.56
2.						0.00
3.						0.00
4.						0.00
5. Totals		\$ 0.00	\$ 0.00	\$ 54,827.04	\$ 49,988.52	\$ 104,815.56
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY					Total (5)
	(1) CA BWET Monterey	(2)	(3)	(4)		
a. Personnel	\$ 20,720.91	\$	\$ 38,824.50	\$	\$ 59,545.41	
b. Fringe Benefits	5,499.33		10,304.02		15,803.35	
c. Travel	560.00		420.00		980.00	
d. Equipment	2,721.45		0.00		2,721.45	
e. Supplies	8,928.87		440.00		9,368.87	
f. Contractual	8,850.00		0.00		8,850.00	
g. Construction	0.00		0.00		0.00	
h. Other	7,546.48		0.00		7,546.48	
i. Total Direct Charges (sum of 6a-6h)	54,827.04	0.00	49,988.52	0.00	104,815.56	
j. Indirect Charges					0.00	
k. TOTALS (sum of 6i and 6j)	\$ 54,827.04	\$ 0.00	\$ 49,988.52	\$ 0.00	\$ 104,815.56	
7. Program Income		\$	\$	\$	\$	0.00

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Prescribed by OMB Circular A-102

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. CA BWET Monterey	\$ 0.00	\$ 0.00	\$ 49,988.52	\$ 49,988.52	
9.				0.00	
10.				0.00	
11.				0.00	
12. TOTAL (sum of lines 8-11)	\$ 0.00	\$ 0.00	\$ 49,988.52	\$ 49,988.52	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 54,827.04	\$ 21,930.56	\$ 10,965.68	\$ 10,965.40	\$ 10,965.40
14. Non-Federal	49,988.52	12,497.13	12,497.13	12,497.13	12,497.13
15. TOTAL (sum of lines 13 and 14)	\$ 104,815.56	\$ 34,427.69	\$ 23,462.81	\$ 23,462.53	\$ 23,462.53
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. CA BWET Monterey	\$ 54,827.04	\$ 60,000.00	\$ 65,000.00	\$ 70,000.00	
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$ 54,827.04	\$ 60,000.00	\$ 65,000.00	\$ 70,000.00	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges: \$54,827.04		22. Indirect Charges: \$0.00			
23. Remarks: Please see attached budget narrative for details and revisions					

ASSURANCES - NON-CONSTRUCTION PROGRAMS

OMB Approval No. 4040-0007
Expiration Date 04/30/2008

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

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Prescribed by OMB Circular A-102

9. Will comply, as applicable, with the provisions of the Davis- Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327- 333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93- 205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL Tamara Doan	* TITLE Director of Programs
* APPLICANT ORGANIZATION Coastal Watershed Council	* DATE SUBMITTED 10-02-2006

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(REV 1-05)

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

* NAME OF APPLICANT

Coastal Watershed Council

* AWARD NUMBER

CA Monterey BWET

* PROJECT NAME

Get Outdoors (GO!) Program

Prefix: * First Name: Middle Name:

Tamara

* Last Name:

Doan

* Title: Director of Programs

* SIGNATURE:

Tamara Doan

* DATE:

10/02/2006

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

Approved by OMB

0348-0046

<p>1. * Type of Federal Action:</p> <p><input type="checkbox"/> a. contract</p> <p><input checked="" type="checkbox"/> b. grant</p> <p><input type="checkbox"/> c. cooperative agreement</p> <p><input type="checkbox"/> d. loan</p> <p><input type="checkbox"/> e. loan guarantee</p> <p><input type="checkbox"/> f. loan insurance</p>	<p>2. * Status of Federal Action:</p> <p><input type="checkbox"/> a. bid/offer/application</p> <p><input checked="" type="checkbox"/> b. initial award</p> <p><input type="checkbox"/> c. post-award</p>	<p>3. * Report Type:</p> <p><input checked="" type="checkbox"/> a. initial filing</p> <p><input type="checkbox"/> b. material change</p> <p>For Material Change Only:</p> <p>year quarter</p> <p>date of last report</p>
<p>4. Name and Address of Reporting Entity:</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee Tier if known:</p> <p>* Name: Coastal Watershed Council</p> <p>* Address: PO BOX 1459 345-F Lake Avenue Santa Cruz CA: California 95061</p> <p>Congressional District, if known: 17</p>		<p>5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:</p>
<p>6. * Federal Department/Agency: Department of Commerce/NOAA</p>	<p>7. * Federal Program Name/Description: Marine Sanctuary Program</p> <p>CFDA Number, if applicable: 11.429</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. a. Name and Address of Lobbying Registrant (if individual, complete name):</p> <p>* Name: n/a none</p> <p>n/a none</p> <p>* Address:</p>	<p>b. Individual Performing Services (including address if different from No. 10a):</p> <p>* Name: n/a none</p> <p>n/a none</p>	
<p>11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		<p>* Signature: Tamara Doan</p> <p>* Name: Ms Tamara Doan</p>

	Title: Director of Programs Telephone No.: 831-464-9200 Date: 10-02-2006
Federal Use Only:	Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

Public Burden Disclosure Statement

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

1. Project Summary

Organization: Coastal Watershed Council (CWC)
Applicant Name: Tamara Doan
Principal Investigator: Tamara Doan
Address: P.O. Box 1459, Santa Cruz, CA 95061
Telephone Number: (831) 464-9200, FAX: (831) 464-9214
Email Address: tcdoan@coastalws.org
Partners: Landmark Elementary School, Pajaro Valley Unified School District
Valencia School, Pajaro Valley Unified School District
Monterey Bay National Marine Sanctuary (MBNMS)
Citizen Watershed Monitoring Network- 'Network'
Watsonville Wetlands Watch
Santa Cruz County Resource Conservation District (SCCRCD)
Watershed Cruizin' Education Program

Area of Interest: Meaningful Watershed Experiences for Students

Project Title: 'Get Outdoors' (GO!) Program

Project Period: July 1, 2007 – June 30, 2008
CWC established the GO! program in 2006-07. This is a second year proposal which expands the program to an additional school (Landmark Elementary) while ensures continuation of the program at the original program school (Valencia) in the 2007-08 school year. Based on success to date, CWC intends to expand and continue the program at yet an additional school in school year 2008-09.

Project Objectives:

- To provide meaningful outdoor learning experiences for ninety 4th and 5th grade students at Landmark Elementary School;
- To provide meaningful outdoor experiences for one hundred and forty 5th and 6th grade students at Valencia School;
- Provide learning experiences based on study in local watershed and learn about the connectivity between people, watershed health and the ocean.
- Students and teachers will come to understand natural processes in the environment, including symbiotic relationships and the water cycle.
- Engage students in water quality monitoring of their local watershed.
- All activities and lessons will meet the Curriculum Standards for California Public Schools.
- Students will increase appreciation of the environment, with demonstrated and measurable increases in awareness and knowledge during the program year.

Summary of work: Up to three 4th grade classes and three 5th grade classes at Landmark Elementary, and 3 5th grades classes and 3 6th grade classes at Valencia Elementary will be supported in the areas of science, art, history and writing by CWC's GO! Program. The program will deliver meaningful watershed education experiences in and out of the classroom to two hundred and thirty students, many of whom represent underserved populations this year and into the future.

Total Funds requested: \$ 54,827.04
In Kind Match: \$ 49,988.52
Total Project Cost: \$ 104,815.56

Valencia Elementary students capture field observations during their first GO! Program adventure to Valencia Creek, Fall 2006.



2. Accomplishments To Date:

While the school year is yet new, CWC is delighted thus far with how the first year implementation of the 'Get Outdoors!' (GO!) Program is going at Valencia Elementary School. The project is on schedule per the timeline proposed in the grant, and the school administrators and staff have enthusiastically participated in launching the program smoothly. While it is too early in the year to have conducted evaluations for comparison, we can report on task completion for the project, which has included:

- All program planning, curriculum selection, teacher training, and preparatory activities have been conducted in coordination with the majority of proposed Steering Committee members.
- The larger school community was engaged early in the program via staff presentations at Back to School night.
- Teachers have received initial training specifically on equipment and monitoring protocol in preparation, including equipment calibration, for first field days later this month.
- Needed materials and supplies lists were finalized in conjunction with the teachers, and items were procured or are on order to support field work.
- A storage unit was procured to securely store field supplies and was located near the classroom to provide for better security.
- The outdoor learning space near the creek at Valencia was upgraded with volunteer labor and materials to provide a quality benches and tables and a secure signage area to use to post information throughout the school year.
- Pre-program baseline awareness, knowledge and attitude quizzes have been conducted with the over 240 students actively participating in field work.
- Students have been oriented to the program via Back to School night orientation and in-depth classroom presentations.
- Classroom activities have been delivered by CWC staff and teachers on overall watershed topics and preparatory activities related to upcoming field work have been conducted.
- Initial field trips to the creek have been conducted to make observations and journal.

In-progress tasks that CWC is completing during the grant review timeline to ensure that the project continues on schedule include:

- Engage Life Lab as final Steering Committee partner to orient to the program in preparation for their assistance in evaluating and refining program curriculum, activities and effectiveness.
- Establish tracking sheets for entry of data collected in first field water quality testing days, which will begin October 2006.
- Establish page on CWC website specifically for Valencia program data, student sharing of learning and community promotion.
- Write and post program-launch article with photos on school and CWC website, and distribute in press-release format to local press.

3. Project Description

3.1 Program Objectives

The Coastal Watershed Council's 'Get Outdoors' (GO!) Program **objectives** are to:

- build a greater understanding of watersheds and the land-sea connection in all its forms,
- create a sense of the importance of pollution prevention in riparian and coastal habitats through experiential learning which teaches the Ocean Literacy Essential Principle #6, 'The ocean and humans are inextricably linked',
- increase science literacy in the community, and
- empower students and teachers to achieve a positive impact in their watershed and for the environment.

3.2 Program Strategy

In this second year of GO! Program implementation, CWC will partner with Valencia School and Landmark Elementary School in the Pajaro Valley Unified School District to accomplish the program objectives using the following program **strategy**:

- Working with teachers and students in the 5th and 6th grades at Valencia Elementary and the 4th and 5th grades at Landmark Elementary throughout the 2007-2008 school year.

- Expand the Steering Committee to include Watsonville Wetlands Watch into the partnership.
- Establish an indoor-outdoor learning environment through provision of curriculum, equipment, and teacher training and support.
- Engage students from underserved populations in a meaningful learning experience through:
 - utilization of classroom preparative activities and exercises that meet State Content Standards,
 - experiential learning conducting water quality monitoring and participating in outdoor educational activities of their local creek,
 - experiential learning in a field trip to the Fitz Wetlands Education Resource Center with guided activities by Watsonville Wetlands Watch educators,
 - analysis of experience in follow up activities, and
 - reporting and sharing of year long learning at a school Watershed Festival during the end of the year Open House night (Valencia) and Open House (Landmark Elementary).
- Train and equip teachers to continue program with minimal support the following school years.
- Assess project success, need for refinement, and determine expansion plan for subsequent program years.

3.3 Program Activities

The GO! Program **activities** will consist of pre and post classroom lessons, 6-9 trips to the creek or slough adjacent to the school site, 1-2 outdoor field trips to the upper watershed and ocean, and participation in a school wide Watershed Festival or Open House Night.

About the Classroom Activities:

The objective of the GO! Program is to build a greater understanding of watersheds and the importance of pollution prevention in riparian and coastal habitats through experiential learning.

Throughout the duration of the program a key connection will be made between healthy watershed communities and coastal ocean health.

Classroom curriculum will be drawn from several professional sources including 'Watershed Cruizin' (Santa Cruz County Resource Conservation District), 'The Land–Sea Connection' (NOAA), and 'Waves, Wetlands and Watersheds' (California Coastal Conservancy and Commission). Content will include, but is not limited to, the following topics:

- Study of the local watershed
- Learning about water quality monitoring procedures
- Understanding producers and consumers
- Understanding symbiotic relationships
- Classifying objects (rocks, leaves, plants, etc)
- Recording data
- Understanding natural processes in the environment
- Understanding how water forms (erodes and reshapes) the land through: weathering transport and deposition
- Understanding human impact and fostering their ability to steward these resources

These curriculums utilized in the GO! Program meet the Content Standards for California Public schools in the areas of Science, Art, History, Math and Reading.

About the Outdoor Learning Experience:

For many students this will be their first learning experience in the natural environment. For all students and their teachers, this is an invaluable experience for learning to occur away from the classroom setting, and requires preparation in the classroom to make the best use of the outdoor time. This experience promotes positive class interaction and valuable bonding experiences between students. The aim of this experience is to foster stewardship within each student, development of an appreciation for the environment and knowledge as to how each of them can make a difference.

Outdoor curriculum will consist of the following:

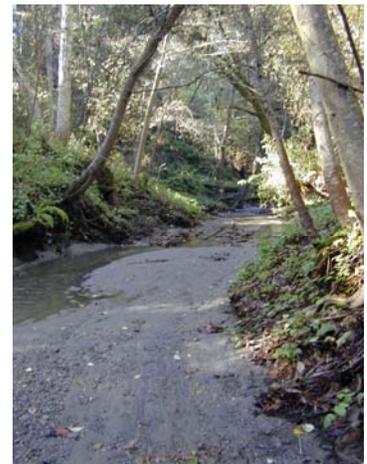
- Students will learn about the direct connection between the upper watershed and the ocean.
- Students will engage in bi-monthly water quality monitoring on Valencia Creek that includes: air and water temperature, electrical conductivity, pH, turbidity and dissolved oxygen.
- Students will take flow measurements and in-field bio-assessments.
- Students will identify native and non-native species in the riparian corridor and assist in creek habitat cleanups.



CWC was thrilled with **Landmark Elementary's** interest in joining the GO! Program. One of the key reasons is its location in the Pajaro River watershed. Located in a neighborhood adjacent to Struve Slough, it will allow for easy access to on-site field-work, while also being proximal to Watsonville Slough and several local watershed resource centers. Furthermore, based on O'Neill

Sea Odyssey's research, many younger students from the Watsonville area have never visited the shoreline and this program will offer that wonderful new opportunity to these underserved students at Landmark Elementary.

We are only beginning to take advantage of the special attributes of the **Valencia School** setting that support outdoor education experiences. Valencia Creek flows directly behind the school site in the Aptos-Valencia Creek Watershed. Much of the habitat upstream from the school is a natural creek bordered by riparian flora and fauna. Historically, this creek has also been known to support federally



threatened steelhead trout, and species of special concern such as the yellow legged frog, black legless lizard, Monterey spine flower, and tidewater goby. The creek is also a Coho salmon recovery stream making this program both practical and inspiring in its implementation at Valencia School.

About Analysis, Reflection, and Engaging the School Community:

To culminate a year's worth of broadly explored meaningful watershed experiences and learning and to inspire the community, the students will host and participate in a year's end activity that is significantly student designed. Valencia School will continue its tradition of hosting a Watershed Festival, which is part of their program plan for the current school year. Landmark Elementary orients its community and parent involvement most significantly around its Open House night, so student will prepare activities and sharing of learning opportunities to be delivered in conjunction with that event. Preparation, support, and some materials and supplies will be provided to students and teachers from the GO! Program. The final format of the Watershed Festival and Open House Night activities will be determined by students and teachers and guided by the GO! Program Steering Committee. In planning these activities that engage the school and broader communities, the GO! Program school site teachers will be invited to consider a broad range of ideas, such as:

- Student display or photo boards that demonstrate: watershed makeup, food webs, local watershed maps, water conservation, salmon life cycle, human water use, history of place, results of monitoring over the year, or Ocean Literacy Essential Principles that have resonated with students that year.
- Equipment demonstrations with water from Valencia Creek or Struve Slough.
- Journal sharing and displays of watershed art projects.
- Watershed display models (created by students or borrowed).
- Interactive games (created by students).
- Plays or presentations on restoration/clean-up activities.

The GO! Program will engage the student and teachers to develop a special watershed oriented invitation to year-end events for their school's parents and watershed neighbors. The GO! Program will direct mail or deliver invitations to up and down stream neighbors to inspire

watershed wide stewardship and learning. Additionally, the community will be invited to come celebrate and learn via newspaper ads in the Aptos Times, the Register Pajaronian, and the Santa Cruz Sentinel.

In addition to year-end events, the GO! Program will inspire students to make a difference by incorporating their water quality monitoring data into the Coastal Watershed Council Citizen Monitoring database, which can then be aggregated into SIMON, CCAMP and other databases for the entire community to use and benefit from. The students will be able to view their data through the CWC website, which will also have a special page dedicated to the GO! Program and will include updates throughout the year from staff and students so that students and their parents can see that their program efforts are being seen by and communicated to the larger Monterey Bay Area community.

3.4 Program Delivery Methods and Timeframe

The **delivery methods** and **timeline** to ensure success in meeting GO! Program Objectives are as follows:

TASK 1: Program preparation (July to October, 2007)

1. Order current versions of target curriculum, support materials, supplies and equipment.
2. Establish additional website for Landmark Elementary on CWC website.
3. Confirm participation of Steering Committee members (Life Lab, SCCRCD, MBNMS Citizen Watershed Network Monitoring Program, Valencia School, Landmark Elementary, WWW, NOAA MONTEREY B-WET Program Coordinator, and CWC).
4. Establish and meet with Steering Committee members to refine implementation plan and confirm curriculum and activities.
5. Recruit, hire and engage a consultant to review, revise and improve the GO! Program evaluation plan.
6. Meet with school administrators to review program plans for year, confirm details of support and participation, and establish timelines for the program including a date for the Watershed Festival and Back to School Night.
7. Meet with the teachers associated with the program from Landmark Elementary to discuss implementation of classroom curriculum, establish lesson plan for the year, identify materials and staff support needs, and to set monitoring schedules.
8. Meet with second-year teachers at Valencia Elementary to establish lesson plans for the year, identify where GO! Program staff support continues to be needed, provide any new

curriculum or training opportunities, plan for teacher presentation of program at Back to School night for parents of Fall 2007 students, and establish a date and scope for the Watershed Festival,

9. Compile materials for Landmark Elementary school classrooms: journals, water quality equipment, data sheets, ID cards for local flora and fauna, current and historical land use information (i.e. Native Americans and Spanish influence in Santa Cruz, timber harvesting), and local geologic information.
10. Develop safety criteria and finalize educational curriculum, as well as alternative program strategies for unpredictable weather conditions.
11. Attend Back to School Night to introduce program and distribute pamphlets to parents of Fall 2007 Landmark students. Promote Watershed Festival date.
12. Create and deliver slide show presentation to introduce the program to incoming 4th and 5th grade students at Landmark Elementary.
13. Coordinate a training session for all participating teachers, and/or facilitate participation for teachers in the SCCRCD Watershed Cruizin' curriculum workshops.
14. Write article to be posted in both school newsletters (end of 06/07 school year or beginning of 07/08 school year), on the school website, on the CWC website, and issued in press releases to local press.

TASK 2: Full program implementation (September 2007 to June 2008)

(Note: Tasks below will be completed entirely for Landmark Elementary, and in part as needed to support program continuation at Valencia Elementary.)

1. Implementing classroom lessons before field outings.
2. Review equipment training and monitoring schedules with teachers.
3. Session with teachers and team leaders to calibrate monitoring equipment in Fall and Spring of school year.
4. In depth recap of program to incoming students, including training the students how to use monitoring equipment.
5. Facilitate watershed education activities in classroom setting
6. Create journal assignments.
7. Assist teachers in delivering outdoor learning experiences and facilitating creek habitat cleanups.
8. Coordinate ongoing in-field data collection and provide field/teacher support from Program Coordinator.
9. Create an Excel file for student data entry. Support teachers in uploading data/activities in Excel and Word files onto CWC webpage on a monthly basis.

10. Plan and implement one to two field trips, including outdoor educational activities, to upper watershed, watershed education resource center, or beach during school year.
11. Photo-document program facilitation by students.
12. Monthly progress assessments with teachers and GO! Program team members by the GO! Program Coordinator.
13. Organize and assist in the development of student program reports/activities for the Watershed Festival and Open House Night events.
14. Steering Committee works together to develop plan to address program expansion and continuation to address:
 - a. continuation of program at Valencia and Landmark Elementary during year three and beyond with modest resources.
 - b. revision of scope to establish program most effectively at additional schools.
 - c. recommendations for which schools to invite to join the program based on demographics, watershed address, and agency program priorities.
15. Meet with Valencia School and Landmark Elementary GO! Program team to plan for continuation of program in 2008-2009 school year and beyond.
16. Recruit new school(s) based on Steering Committee recommendation and availability of funding.

TASK 3: Reporting and Post Lessons (May/June 2008)

1. Post classroom lesson and wrap up.
2. 4th, 5th & 6th graders plan, hold and promote a year end Watershed Festival or Open House Night event for all other students, parents and watershed neighbors at school.
3. Write articles for local publications at start, mid-term and post program (Aptos Times, Santa Cruz Sentinel, Register Pajaronian, CWC website, NOAA Publications).
4. Compile two progress reports at six and twelve months, a final comprehensive report, and an evaluation report at the end of the project proposal. Submit reports to GO! Program team members and funders.

TASK 4: Evaluation (September 2006 to June 2007)

1. Recruit, hire and engage consultant to work assist Steering Committee to review, refine and improve evaluation plan, including establishing learning targets, desired attitude changes for students in the program, and program satisfaction targets for school site program partners.
2. Initiate a pre-program, mid-term, and final quiz for students to evaluate increase in awareness and understanding and change in attitude as a result of program.
3. Survey teachers and administration pre, mid and post program for satisfaction with program and to identify opportunities for improvement.

4. Mid-term program evaluation of program led by GO! Program staff and informed by Steering Committee and evaluation consultant; review of quiz scores, monthly progress evaluations and teacher and administrator surveys.
5. Final program evaluation by GO! Program staff and Steering Committee culminating in submission of evaluation report.

13.5 Shared Purpose: How the GO! Program Meets California B-WET Program Goals

The **purpose** of the GO! Program is in excellent alignment with the California B-WET Program's Goals in delivering Meaningful Watershed Experiences for Students.

The GO! Program's objectives are to:

- build a greater understanding of watersheds and the land-sea connection in all its forms,
- create a sense of the importance of pollution prevention in riparian and coastal habitats through experiential learning which teaches the Ocean Literacy Essential Principle #6, 'The ocean and humans are inextricably linked',
- increase science literacy in the community, and
- empower students to achieve a positive impact in their watershed and for the environment.

Compare these to the goals outlined in the California B-WET Funding Opportunity:

- 'create a population that is knowledgeable about the marine environment',
- 'use the environment as a context for learning',
- 'increase a student's enthusiasm and engagement for learning'; in order that they
- 'become effective future problem solvers, and thoughtful community leaders and participants'.

The GO! Program additionally meets or exceeds each of the specific priorities for Meaningful Watershed Experiences for Students as outlined below:

3.5a. Meaningful Watershed Experiences make a direct connection to the marine or estuarine environment.

Students will be engaged in the classroom and out directly studying watersheds, the land-sea connection, water cycles, the flora and fauna of our central coast watersheds, and how our human actions impact the marine and



Valencia Creek ecology comes to life for GO! Program students, who will follow their watershed to the shore in Spring 2007.

estuarine environments. Additionally, students

will engage in hands on stewardship of

Valencia Creek and Struve Slough at their school site via creek habitat clean up and water quality monitoring. Finally, students will directly experience the connection to the marine environment through field trips across their watershed and at the edge of the Monterey Bay.

3.5b. Meaningful Watershed Experiences are an integral part of the instructional program.

Designed as a comprehensive experience, the learning will start in the classroom with curriculum that meets Curriculum Standards for California Public Schools. We are fortunate to have available to us the fruits of past hard work and funding investments by state and local partners with the three professionally developed curriculum opportunities that our GO! Program teachers can draw from: 'Watershed Cruizin' (SCCRCD), 'The Land-Sea Connection' (NOAA), and 'Waves, Wetlands and Watersheds' (CCC). The availability of these sources allows for the easy and cost and time efficient integration of meaningful watershed experiences into busy teacher's lesson plans.

3.5c. Meaningful Watershed Experiences are project oriented, hands-on, and investigative.

The course for learning will be set in the classroom instilling inquiry and curiosity in the students. They will take their curiosity out into the watershed above and below and at their school site to monitor water quality, explore place, and restore habitat toward the end of answering their questions, solving problems and being empowered to steward their watershed. In reflecting and reporting on their learning, students will develop projects, activities and games to communicate their learning to students, teachers and watershed neighbors at their Watershed Festival.

3.5d. Meaningful Watershed Experiences are a part of a sustained activity.

The GO! Program is sustainable in that it is a year-long course of engagement in learning about the Monterey Bay and the participating school's local watershed. Each aspect of the GO! Program ensures that learning experiences include the three major components to achieve learning objectives as recommended by the California B-WET program:

1. Preparation Phase:

Classroom lessons will be conducted to address watersheds, history of area to be studied, water monitoring protocols and procedures, data collection, equipment use, native and non-native flora and fauna, issues related to declining watershed health, and working within teams.

2. Outdoor Studies:

Hands-on activities will be provided throughout the year, including water quality monitoring, data recording and analysis, Benthic Macroinvertebrate (BMI) studies, vegetative and species identification, bio-assessment, creek habitat cleanups, and flow measurements.

3. Reflection/analysis/reporting phase:

Written synopsis and reports by each student will cover relevant topics from the GO! Program. The students' final projects will be incorporated into planning and presenting a school wide Watershed Festival or Open House Night at end of the year to share their project, findings and ideas. Students will also be able to see their monitoring and select project activities reflected on the CWC website, the school website, and in local press.

3.5e. Meaningful Watershed Experiences reflect an integrated approach to learning.

The GO! Program will engage all of Valencia School's 5th and 6th grade classes and Landmark School's 4th and 5th grade classes to inspire and support them in incorporating at least one watershed learning activity in the educational activities in their classrooms. The curriculum provided by the program will support watershed related activities in art, history, writing, math, and the sciences.

3.5f. Projects involve external learning and sharing.

By offering the Watershed Festival and Open House Night as a broad forum for presentation and celebration at the end of the school year, the teachers can offer their students a concrete and visible way to participate in watershed learning outside the science classes. This broad based event inspires the involvement of non-science teachers, which supports an integrated approach to learning as well as offering a direct opportunity for external learning and sharing. Student's work will be made important by the witness of their accomplishments by the school community and the school's watershed neighbors. Additional opportunities for student work to impact the community include newspaper coverage of GO! Program activities, inclusion of water quality

monitoring data into CWC databases, and visibility of program activities on the CWC and school websites.

3.5g. Projects demonstrate partnerships.

As an agency that had delivered programs from Baja to the Oregon border, CWC could not be more fortunate than to be based here in the Monterey Bay Area. The air of cooperation and collaboration between agencies, organizations, and programs working toward sustainability here is phenomenal, and leads to innovation, efficiency and success in delivering quality services to the area. CWC was excited to include Watsonville Wetlands Watch as a new program partner:

- Landmark Elementary School, Pajaro Valley Unified School District
- Valencia School, Pajaro Valley Unified School District
- Watsonville Wetlands Watch
- Monterey Bay National Marine Sanctuary, *Citizen Watershed Monitoring Network*
- Santa Cruz County Resource Conservation District, *Watershed Cruizin' Education Program*

3.5h. Experiences are for all students.

The GO! Program has been thoughtfully targeted to offer meaningful watershed experiences to low-income and underserved student populations. At **Landmark Elementary**, 74% of the students are English Language Learners and 80% are low-income students. Furthermore, these students need support to achieve improved science learning; the school has only 7% of its students achieving 'proficient', or 'advanced' scores on science tests compared to a statewide average of 29%. Approximately 38% of students at **Valencia School** students are of Hispanic ethnicity and 32% of the school's students qualify for the free or reduced-priced meal subsidy program. A majority of all the students are from middle to lower income families, and some are children of migrant farm workers of the local agricultural community.

3.5i. Projects utilize NOAA programs or personnel.

CWC was an original partner in the formation of the MBNMS Citizen Watershed Monitoring Network, and has enjoyed a close collaboration with the Network and its coordinator since its inception. Currently CWC partners with the Network through delivering trainings to Network programs and engaging the Network program to coordinate monitoring services in the southern Monterey Bay Area. Additionally, the Network Coordinator is providing support to currently

funded Monterey B-WET schools monitoring programs, including the first year of the GO! Program. The Network Coordinator will continue to assist the GO! Program by sharing lessons learned in the past working with school groups. The Network Coordinator will provide recommendations to program design, best practices, and helpful hints in working with schools and students. Additionally, as part of the GO! Program Steering Committee, they will advise on the continuation and expansion of the program, and including targeting elementary schools in the southern MBNMS region for consideration in future programs as appropriate to B-WET goals.

Additionally, as noted above, the GO! Program will provide for teacher use the NOAA "Land-Sea Connection" curriculum, map and activities as a curriculum option. Finally, the data from student monitoring where CWC staff are present will be available to the MBNMS SiMON data program.

3.6 Project Partners and Beneficiaries

Both the human and wildlife communities of the Monterey Bay area will be the ultimate beneficiaries of the improved water quality and community stewardship that will result from this project. The immediate beneficiaries of this work, however, are the 230 students and up to 7 teachers that will be directly involved in meaningful watershed learning experiences supported by the GO! Program. The parents of these students and up to 350 school watershed neighbors will also be served in the project via outreach, engagement in the field trips, and involvement in the Watershed Festival and Open House Nights. Please see **Section 3.5h** for demographic details about the student population served.

Landmark Elementary and Valencia School, Pajaro Valley Unified School District

Valencia School is our champion initial program partner. Valencia staff must be acknowledged for being an early advocate of this program and for approaching CWC for support to get their students out monitoring water quality in 2004. In coming to CWC, Valencia School clearly declared their need for assistance in bringing meaningful outdoor watershed experiences to their students. Landmark Elementary is a new school in a new neighborhood, offering the GO! Program and B-WET funders the opportunity to support underserved students in their learning

and to share their newly fostered stewardship with a new slough-side neighborhood. One of Valencia School's goals is "All members of the Valencia community will have opportunities to participate in activities that foster cooperation, respect, and responsibility in our diverse world", which when broadly interpreted, speaks to the heart of GO! Program and B-WET goals.

As the GO! Program's primary partners, these two schools have committed to supporting all activities outlined in this proposal, and have detailed their commitment in their letters of support.

Monterey Bay National Marine Sanctuary, *Citizen Watershed Monitoring Network*

The Monterey Bay National Marine Sanctuary Citizen Watershed Monitoring Network is a long-term collaborator with CWC. The history of our collaboration and a discussion of their proposed involvement in our project are detailed in **Section 3.5e** above. The MBNMS Citizen Watershed Monitoring Network will partner with the GO! Program to provide advice and technical assistance on monitoring programs for school age children as well as assist with program evaluation.

Santa Cruz County Resource Conservation District, *Watershed Cruizin' Ed Program*

The Santa Cruz County Resource Conservation District (SCCRCD) is currently the lead agency on the regional Integrated Watershed Restoration Program (IWRP) in Santa Cruz County. IWRP is seeking to integrate the watershed programs of various state, federal, and local governments with each other and with the work being done by nonprofits and individuals. This program integrates education, outreach, and monitoring into our strategies for the future, in addition to completing on-the-ground projects. One key component of IWRP is to provide place-based meaningful watershed learning experiences for school age learners, and it is through their Watershed Cruizin' program that the partnership services to the GO! Program will be offered. As a GO! Program partner, the SCCRCD will continue to provide the Watershed Cruizin' curriculum, include GO! Program teachers in training opportunities, and assist with program evaluation.

Watsonville Wetlands Watch

The Watsonville Wetlands Watch is a nonprofit community based organization dedicated to the protection, restoration and appreciation of the wetlands of the Pajaro Valley. Because of their

expertise in the science, restoration, and education about the Watsonville Slough Environment, the GO! Program has engaged WWW as a partner, consultant and Steering Committee member to support student field trips to the Watershed Education Resource Center, which includes plant and bird activities in their native garden (including nesting boxes!), a computer lab for mapping, and a wet lab with water quality testing equipment. WWW educators will attend one field day with students to conduct habitat restoration or other field activities. WWW will also partner with GO! Program staff to evaluate and improve the program, including engaging with additional south Santa Cruz County schools in future years.

GO! Program Lead: the Coastal Watershed Council

The Coastal Watershed Council (CWC) is a 501(c)3 nonprofit organization committed to the preservation and protection of coastal watersheds through citizen-based community stewardship, education and monitoring. Founded in 1994, the Coastal Watershed Council (CWC) was formed in response to the declining health of the watersheds connected to the Monterey Bay National Marine Sanctuary.

CWC plays a critical role in the central coast of California by providing valuable watershed monitoring and educational programs focusing on salmonid streams and non point source pollution issues. CWC has managed 8 watershed monitoring programs involving more than 250 volunteers annually and providing watershed monitoring on over 70 miles of streams. These programs operate in the counties of Santa Cruz, San Mateo and Monterey. The data collected by our monitoring programs is used by local resource agencies to identify limiting factors with regards to salmonid habitat and recovery and riparian conservation priorities. Funding for our programs is provided through federal, state and foundation grants; private donations, organizational fundraising events; contract services with nonprofits and government agencies and general membership fees.

We are proud to share that CWC has partnered with the following funding agencies to successfully deliver on-time grant-funded programs to the central coast community: NOAA's

MONTEREY B-WET Grant Program 2005, the American Rivers, National Fish and Wildlife Foundation, REI Inc., the David and Lucille Packard Foundation, Patagonia Inc., the cities of Santa Cruz, Capitola, Pacific Grove and Monterey, the County of Santa Cruz, the California Coastal Commission, the California State Coastal Conservancy, the California State Department of Fish and Game, the California State Department of Forestry, the Monterey Bay National Marine Sanctuary, the Central Coast Regional Water Quality Control Board, the State Water Resources Control Board, and the State Department of Water Resources.

The GO! Program is an extension of the Clean Streams Program which was implemented by CWC initially in Arana Gulch in 1996 and over the last 10 years has been operated by CWC across three counties which drain into the Monterey Bay National Marine Sanctuary; San Mateo, Santa Cruz and Monterey County. CWC's role as the lead GO! Program implementer will be to initiate, organize, develop, support and manage the Steering Committee and GO! Program team members at Valencia and Landmark Elementary Schools to successfully complete all of the tasks outlined in **Sections 3.3** and **3.4**.

For more information on CWC, our previous and current partners and funders, and our Citizen Watershed Monitoring Programs, please visit our website at <http://www.coastal-watershed.org/>.

3.7 Learning in the watersheds of the Monterey Bay National Marine Sanctuary

The program will take place at the following two schools sites, which are both adjacent to water bodies offering practical field accessibility to students:

Valencia School: 250 Aptos School Road, Aptos, California

Landmark Elementary: 235 Ohlone Parkway, Watsonville, CA

4. The Need for Funding

Currently, the Pajaro Valley Unified has no funds available for such an experiential learning program or to further develop its teachers to incorporate experiential learning in watersheds. Valencia and Landmark Elementary Schools are not alone in this, as many schools are focusing their fiscal resources toward meeting standardized testing goals and other state mandated

programs. Supporting the GO! Program in these two Pajaro Unified School District schools will pave the way to educate local students and engage them in a field program that incorporates hands-on experience with scientific knowledge, as well as meeting the educational standards of California public schools.

In one year the program will not only deliver meaningful watershed experiences to the 230 students in the 5th and 6th grades at Valencia and 4th and 5th grades at Landmark, but it will train and equip its teachers to be able to sustain the program with minimal support in the years to come. Additionally, the GO! Program leverages partnerships and resources to maximize the benefit of California B-WET dollars to deliver comprehensive and quality programming in a cost efficient manner.

5. Benefits and Results Expected

The immediate benefits of the GO! Program will be realized through completion of our program objectives. At the end of the program's second year:

- Students and teachers will have a measurably greater understanding of watersheds and the land-sea connection in all its forms, (see **Section 6.0** for details)
- Students, teachers and watershed neighbors will have an increased sense of the importance of pollution prevention in riparian and coastal habitats through experiential learning and community events,
- Students and teachers will have a measurably increased science literacy,
- Students and teachers will be competent in utilizing water quality monitoring equipment; and,
- Students, teachers and watershed neighbors will be empowered through education, experience, and equipment to achieve a positive impact in their watershed and for the environment.

In addition to the participant benefits, the region will benefit from the program through:

- Improved water quality in Valencia Creek, Struve Slough, and the MBNMS from increased stewardship, (Qualitative result)

- The GO! Program Steering Committee and California B-WET funders will have a clear understanding of the most effective and efficient approach to delivering this combination of curriculum, training and support to an elementary school site, and a plan to continue the program and expand it to other areas.
- The GO! Program will be able to continue with significantly less support in year 3, and subsequent years at Valencia and Landmark Schools, releasing funding to support delivery of the program to new schools in year three of the program; and
- Data from all monitoring overseen by the GO! Program Coordinator will be made public via CWC's Watershed Monitoring Database and available for upload to regional databases.

6. Project Evaluation

In the second year of the GO! Program, CWC will ensure its evaluation plan is as effective and efficient as possible. In addition to learning from our year one evaluation processes, CWC will engage a consultant to review the evaluation plan for year two of the program. We will work with our Steering Committee and the consultant to refine the plan, establish a schedule, select final tools to use in evaluation efforts, and confirm final outcome targets for objectives. Both qualitative and quantitative measures will be used in evaluating the program. The processes detailed below are our starting point for our year two evaluation plan, and are also included in the Program Delivery Methods and Timeline in **Section 3.4**.

Quantitative processes and indices of program success include:

- Successful completion of all tasks identified in **Section 3.4**. (Summative)
- Quantitative satisfaction surveys with GO! Program team Participants at Valencia School, with a target of excellent ratings and improved ratings through the course of the program year. (Formative, Summative)
- Measurable increases in student awareness and learning through mid and post program quizzes (see detail below). (Formative, Summative)
- 100% participation by all 230 target students in at least one watershed curriculum activity during the school year. (Summative)

- 50% Participation by students/teachers in active monthly water quality monitoring experiences. (Summative)
- 25% participation by parents (est. 520) and watershed neighbors (est. 350) at the Watershed Festival or Open House, or a target of 220 adults exposed to and celebrating student watershed projects. (Summative)

Qualitative processes and indices of program success include:

- Program expectation, feedback and anecdotal satisfaction surveys with GO! Program team Participants at Valencia and Landmark Schools, with a target of obtaining detailed feedback to plan, improve and evaluate throughout the project, and document continual improvement. (Front-end, Formative, Summative)
- Review of progress reports and participating in a mid-term evaluation by entire Steering Committee, with a target of demonstrated responsiveness to identified areas for improvement of the program throughout the project. (Formative)
- Participation of entire Steering Committee in final evaluation of program with a target of creating a success plan for year two implementation and beyond. (Summative)
- GO! Program Coordinator will test teachers at year's end on use, maintenance and calibration of equipment, and data management, with a target of 100% competency with equipment (given availability of CWC technical support). (Summative)
- The program outcomes will be photo documented as well as captured in written reports. (Summative)

To further elaborate on the quantitative measurement of increasing student awareness and understanding, the following benchmarks are proposed. The specific targets will be reviewed, possibly amended, and approved by the GO! Program teachers and Steering Committee prior to beginning the program. The quiz results from students who have participated in monitoring and outdoor experiences will be compared to our goals. These results will inform us if we are reaching our objectives, and where we can improve the program to address challenging areas of learning.

Mid-term evaluation

1. Monitoring
 - a) A 50% increase in the number of students able to identify and correctly utilize the water quality testing equipment.
 - b) At least 50% of the students will be able to read and record results of water quality tests on data sheets.
2. Education
 - a) A 20% increase in the number of students able to identify 2 native flora and 2 native fauna species.
 - b) A 50% increase in the number of the students able to identify 2 different substrate types.
 - c) A 30% increase in the number of students able to identify what makes a watershed and how it is connected to the coastal environment.
3. Habitat Clean Up
 - d) A 30% increase in the number of students will be able to identify 3 different sources of human pollution.
4. Changes in Attitude
 - a) Students will demonstrate an average of 25% improvement in their attitudes about feeling connected to the environment.

Final evaluation

1. Monitoring
 - a) A 30% increase in the number of the students able to identify the purpose of water quality testing.
 - b) At least 50% of the students will be able to apply the data results to explain the relationship to the water quality.
2. Education
 - a) A 50% increase in the number of the students able to identify 5 native flora and 5 native fauna species.

- b) A 50% increase in the number of the students able to identify 5 different substrate types.
 - c) A 50% increase in the number of the students able to identify how human interaction is connected to and can affect a healthy ecosystem.
3. Habitat Clean Up
- a) A 50% increase in the number of the students able to identify how human pollution affects water quality.
 - b) A 40% increase in the number of the students able to list 3 ways they can help to reduce human pollution.

7. Budget Narrative

Please see attached file for a comprehensive budget narrative.

8. Letters of Support from Partners

We are delighted to submit letters of support from all of the inspiring partners on our GO!

Program team. Please review the attached files for detailed letters of support from:

- Landmark Elementary School, Pajaro Valley Unified School District
- Valencia School, Pajaro Valley Unified School District
- Watsonville Wetlands Watch
- Santa Cruz County Resource Conservation District

Watershed Cruizin' Education Program

9. Supporting Documentation

To provide further detail and information on the quality curriculum and materials incorporated into the GO! Program plan, please find attached supporting documents that highlight curricula:

- Classroom curriculum: 'Watershed Cruizin', provided by the Santa Cruz County Resource Conservation District (*Special focus: marine, estuarine and watershed experiences taken up the watershed, local to Santa Cruz County, multi-disciplinary*)

- Classroom curriculum: 'The Land–Sea Connection', provided by National Oceanic and Atmospheric Administration. (*Special focus: aerial view of watersheds, the land-sea connection*)

For brevity only the cover and table of contents of the above curriculum are attached.

The Classroom curriculum: 'Waves, Wetlands and Watersheds', provided by the California Coastal (Commission or Conservancy and Commission) will be used, but was not attached due to space limitations. (*Special focus: marine, estuarine and watershed experiences on the California coast, multi-disciplinary*)

10. NEPA

There will be no construction, habitat modification, species introduction or removal, or use of hazardous chemicals in this project and thus no NEPA impacts or environmental assessments are anticipated.

11. Conclusion

The GO! Program will inspire students to be empowered and engaged as lifelong students of the world, and to take their experiences, expand on them, and practice stewardship wherever they go in life. CWC is appreciative of the opportunity to share the information about our GO! Program with the Monterey BWET program which shares the goals of lighting a fire in the hearts and minds of our youngest community members to be knowledgeable about the environment, to get outside and learn, to be proud of and steward well our local Monterey Bay National Marine Sanctuary, and feel connected to and responsible for our local and global environment.



Mrs. Guiley's science students Get Outdoors! to journal their observations in the outdoor classroom restored by parent volunteers in the Valencia School GO! Program.

Budget Narrative

Summary of work: Up to three 4th grade classes and three 5th grade classes at Landmark Elementary, and three 5th grade classes and three 6th grade classes at Valencia Elementary will be supported in the areas of science, art, history and writing by CWC's GO! Program. The program will deliver meaningful watershed education experiences in and out of the classroom to two hundred and thirty students from both schools many of whom represent underserved populations this year and into the future.

Total Funds requested: \$ 54,827.04
 In Kind Match: \$ 49,988.52
 Total Project Cost: \$ 104,815.56



Valencia Elementary students capture field observations during their first GO! Program adventure to Valencia Creek, Fall 2006.

Personnel

The staff requirements to deliver the GO! Program are for a 7% Full Time Equivalent (FTE) Program Manager, a 38% FTE Program Coordinator, a 2% FTE Business Manager/Accountant, 5% FTE involvement from Steering Committee members, a 27% FTE involvement total from teachers, and a 9% FTE involvement from parents.

PERSONNEL	Hours/Units	Unit Cost	FEDERAL	MATCH
CWC Program Manager	100	\$29.78	\$2977.71	
CWC Program Coordinator(2)	780	\$21.74	\$16,953.30	
CWC Business Manager/Accounting	35	\$22.57	\$789.91	
Steering Committee (non federal employees)	110	\$31.35		\$3,448.50
School Teachers	1000	\$29.04		\$29,040.00
Parents for field trips, outdoor classroom restoration, etc	384	\$16.50		\$6,336.00

Fringe Benefits

Fringe benefits are provided for CWC staff and accounted for non-federal staff as program match at a rate of 26.54% that includes all taxes, insurance and benefits.

FRINGE at 26.54%	Hours/Units	Unit Cost	FEDERAL	MATCH
CWC Personnel			\$5,499.33	
Teachers, Steering Committee and other non-federal match				\$10,304.02

Travel

Travel will be required for school site visits, field trips, and to potential 07-08 school site program participants.

TRAVEL	Hours/Units	Unit Cost	FEDERAL	MATCH
Mileage for CWC staff	1400	\$0.40	\$560.00	
Mileage for parents for field trips	600	\$0.40		\$240.00
Mileage non federal steering committee for meetings site visits, site selection	450	\$0.40		\$180.00

Equipment

A key feature of the program is to train and equip teachers to continue the program with minimal support in the future. A component of this is to ensure that they have quality equipment that will last into the future, is easy to use, store, and calibrate. Of the following equipment budget, 100% of the expenditures will be for equipment that is consumed during the project or remains at the school site at the end of the program. Based on year one feedback from Valencia Teachers, we have added in addition equipment for the classrooms to include weather stations and rain gauges, digital camera for photo documentation and field work, watershed models to serve as a permanent community resource, more binoculars for students, and added a pole sampler to better collect water samples in the slough waters near Landmark School.

EQUIPMENT	Hours/Units	Unit Cost	FEDERAL	MATCH
Wireless weather station/rain gauge (Landmark)	1	\$250.00	\$250.00	
Digital Camera (Landmark)	1	\$240.00	\$240.00	
Watershed/Non-Point Source Pollution 3 D Model (Landmark)	1	\$907.00	\$907.00	
30 hand magnifying lenses (6 -3x magnifier - @ 5.94 x 5 = 30 lenses) (Landmark)	5	\$5.94	\$29.70	
Binoculars (5x 6x mini binoc pairs) (10 more for Valencia, 15 for Landmark)	25	\$24.80	\$620.00	
Make Your Own Watershed Kits (5x) (Landmark)	5	\$49.35	\$246.75	
Pole sampler (Landmark)	1	\$38.00	\$38.00	
Funnels (Both schools)	2	\$20.00	\$40.00	
Lockable 30 cu. ft equipment storage bin for Landmark	1	\$350.00	\$350.00	

Note: Other than the 'pole sampler', those items only slated for Landmark Elementary School were already provided to Valencia Elementary School during the first year of the Go! Program.

Supplies

The supplies below are required to support the experiential and classroom learning and reporting experiences for students in the GO! Program. 100% of the durable supplies will be left with teachers at year's end to support future implementation of GO! Program activities. Based on year one program feedback from Valencia teachers, we have included additional supplies for the program that include measuring tapes, compasses, and trash grabbers.

SUPPLIES	Hours/Units	Unit Cost	FEDERAL	MATCH
Field Journals (Both schools)	230	\$10.00	\$2,300.00	
Topo and watershed maps for classrooms	5	\$20.00	\$100.00	
Flora, Bird, and Fauna ID Cards (Landmark)	18	\$10.50	\$189.00	
Measuring Tape (Both schools)	16	\$6.00	\$96.00	
Compasses (Both Schools)	16	\$12.50	\$200.00	
Trash grabbers and bags for habitat clean-up	12	\$32.40	\$388.80	
4 water quality monitoring kits and related equipment (see detail below)	Varies	Varies	\$1,705.40	
Printing (B&W, Color) , Letterhead, Envelopes (See detail below)	1877	\$1.09	\$2,045.09	
Lamination of field materials (50 sheets)	1	\$51.28	\$51.58	
Postage for Watershed Festival and Open House mailings	700	\$0.39	\$273.00	
Office and Project Supplies (per month)	12	\$48.33	\$580.00	
Festival/Open House materials for students (paper, paints, decoration, hoses, plastic sheeting, buckets)	2	\$500.00	\$1,000.00	
Watershed Cruzin' Curriculums	10	\$22.00		\$220.00
Waves, Wetlands and Watershed Curriculums	10	\$22.00		\$220.00

Water Quality Monitoring Kits include: Dissolved Oxygen Kit, Annual Reagent refills, Turbidity Kit/Secchi Disks, pH Strips, Thermometers (2), Conductivity meter, Storage Bin, Tackle Box, Waste Water bottles (4-1 gal), Sharps containers for glass, and Clipboards.

Water Monitoring Supplies include: Whirlipaks, Rite-in-the-Rain paper, Gloves , Paper towels, Ziplock bags, Pens/Pencils, Trash bags, DI (Distilled) water, Sunscreen, First Aid kits and Insect Repellant.

Printing, Letterhead and Envelopes include: Safety Criteria, Data sheets, Geologic data sheets, Land Use Data Sheets, Quizzes, Teacher surveys, and Invitations with envelopes to Watershed Festival and Open House.

Contractual

CWC has included the following consultants in our contractual costs for the program. The partnership with Watsonville Wetlands Watch is further discussed in the program narrative and in letter of support. We are also requesting funding to engage and evaluation consultant to review and provide improvement suggestions to our evaluation plan at the start of the year.

CONTRACTUAL	Hours/Units	Unit Cost	FEDERAL	MATCH
Watsonville Wetlands Watch (host Landmark at WERC, assist with 1 field day)	2	Varies	\$1,350.00	
Website Page Development and Updating (for Landmark)	18	\$80.00	\$1,440.00	
Evaluation Consultant to improve Evaluation Plan	32	\$100.00	\$3,200.00	
Advertising for Watershed Festival and Open House	4	\$165.00	\$660.00	
Laboratory Services for water quality testing	40	\$55.00	\$2,200.00	

Construction

There will be no construction in this project.

Other

The costs in this section represent the infrastructure CWC will need to support GO! Program activities. CWC has not included an indirect cost rate or request in this proposal. The only item we have added to this section is travel to the National B-WET conference and teacher stipends.

OTHER	Hours/Units	Unit Cost	FEDERAL	MATCH
Travel to National B-WET Conference	2	\$600.00	\$1,200.00	
Office space rental*	12	\$213.73	\$2,564.76	
Computer Usage Support*	12	\$95.70	\$1,148.40	
Phone usage and support*	12	\$53.17	\$638.04	
Organizational support services (accounting, legal)*	12	\$82.94	\$995.28	
Teacher Stipends & Professional Development		\$1,000.00	\$1,000.00	

Indirect Costs

CWC has not included an indirect cost rate or request in this proposal.

What this funding will support

The GO! Program will inspire students to be empowered and engaged as lifelong students of the world, and to take their experiences, expand on them, and practice stewardship where ever they go in life. CWC is appreciative of the opportunity to share the information about our GO! Program with the Monterey BWET program which shares the goals of lighting a fire in the hearts and minds of our youngest community members to be knowledgeable about the environment, to get outside and learn, to be proud of and steward well our local Monterey Bay National Marine Sanctuary, and feel connected to and responsible for our local and global environment.

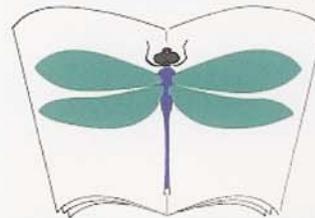
Pajaro Valley Unified School District

Landmark Elementary School

235 Ohlone Parkway
Watsonville, CA 95076

831 761-7940 Fax: 831 761-6100

Landmark Elementary



A Great Place to Learn and Grow

September 20, 2006

Dear Bay Watershed Education and Training (BWET) Program:

As the principal of Landmark School, I will commit to the 'Get Outdoors' (GO!) Program administered by the Coastal Watershed Council.

As a participant of this program, 4th and 5th grade classrooms of Landmark School will be engaged in classroom and outdoor educational activities.

Classroom curriculum will consist of pre and post lessons including but not limited to:

- Study of the local watershed
- Learning about water quality monitoring procedures
- Understanding producers and consumers
- Understanding symbiotic relationships
- Classifying objects (rocks, leaves, plants, etc)
- Recording data
- Understanding natural processes in the environment
- Understanding how water forms (erodes and reshapes) the land through: weathering transport and deposition

In addition to the classroom lessons, students will gain hands on experience in an outdoor setting. Field curriculum will consist of 1-2 field trips to Struve and Watsonville Sloughs. During these field trips students will observe the direct connection between the sloughs and the ocean. Students will learn the basics of bi-monthly water quality monitoring on Struve Slough that includes: air and water temperature, electrical conductivity, pH, turbidity and dissolved oxygen. In addition, in-field bio-assessment topics will be covered. Students will identify native and non-native species in the riparian corridor and assist in habitat restoration.

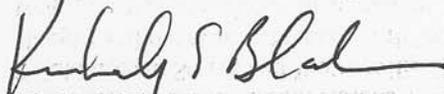
These lesson plans are developed to teach students about their local watershed and the impact that humans have on the environment. For many students this will be their first experience in the natural environment. For all students and their teachers, this is an invaluable experience for learning to occur away from the classroom setting. This experience promotes positive class interaction and valuable bonding experiences between students. The aim of this experience is to foster within each student an appreciation for the environment and how each of them can make a difference.

We support this program and look forward to implementing it for the 2007-2008 school year.

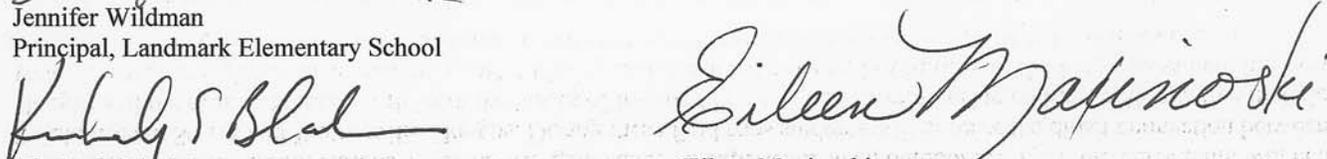
Sincerely,



Jennifer Wildman
Principal, Landmark Elementary School



Kimberly Black
Teacher, Landmark Elementary School



Eileen Maxinoski
Teacher, Landmark Elementary School

Valencia Elementary School

PAJARO VALLEY UNIFIED SCHOOL DISTRICT

Dianna Higginbotham
PRINCIPAL

Julie Page-Ales
ASSISTANT PRINCIPAL

September 20, 2006

Dear Bay Watershed Education and Training (BWET) Program:

As the principal of Valencia School, I am pleased to commit to a second year of the 'Get Outdoors' (GO!) Program administered by the Coastal Watershed Council.

As a participant of this program, 4th, 5th and 6th grade students of Valencia School will continue to engage in the Go! Program's classroom and outdoor educational activities.

The GO! Program began with the 2006-07 school year and all of the students have been very excited about working with the Coastal Watershed Council's GO! Program. Classroom curriculum has been following standards, with students learning about watersheds, pollution and observational skills with regard to their natural environment. Through this program our students are also able to utilize the Nature Center near Valencia Creek and have easy access to the creek for their water quality testing.

In the 2007-2008 school year, classroom curriculum will continue to consist of pre and post lessons including but not limited to:

- Study of the local watershed
- Learning about water quality monitoring procedures
- Understanding producers and consumers
- Understanding symbiotic relationships
- Classifying objects (rocks, leaves, plants, etc)
- Recording data
- Understanding natural processes in the environment
- Understanding how water forms (erodes and reshapes) the land through: weathering transport and deposition

In addition to the classroom lessons, students will gain hands on experience in an outdoor setting. Field curriculum will again consist of 1-2 field trips to the upper and lower sections of the Aptos Watershed. During these field trips students will observe the direct connection between the upper watershed and the ocean. Students will learn the basics of bi-monthly water quality monitoring on Valencia Creek that includes: air and water temperature, electrical conductivity, pH, turbidity and dissolved oxygen. Students will also learn to compare data from the previous year to current data. In addition, monthly flow

250 Aptos School Road
Aptos, California 95003
Phone: (831) 688-2013
Fax: (831) 728-6489

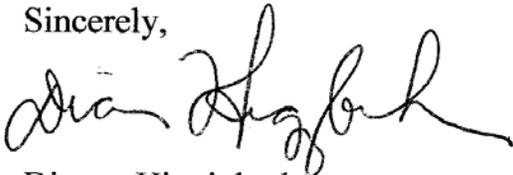


measurements and in-field bio-assessment topics will be covered. Students will identify native and non-native species in the riparian corridor and assist in habitat restoration.

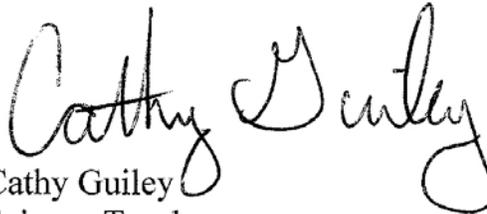
These lesson plans are developed to teach students about their local watershed and the impact that humans have on the environment. For many students this will be their first experience in the natural environment and for others it will be a continuation and a building upon knowledge and skills learned in the first year of the program. For all students and their teachers, this is an invaluable experience for learning to occur away from the classroom setting. This experience promotes positive class interaction and valuable bonding experiences between students. The aim of this experience is to foster within each student an appreciation for the environment and how each of them can make a difference.

We continue to support this program and look forward to continuing the GO! Program for the 2007-2008 school year. It is a thrill to see students doing hands-on work down at the creek. There is so much learning going on.

Sincerely,



Dianna Higginbotham
Principal,



Cathy Guiley
Science Teacher



Watsonville Wetlands Watch

P. O. Box 1239 • Freedom CA 95019

Dedicated to protecting, restoring and appreciating the wetlands of the Pajaro Valley.

25 September 2006

Seaberry Nachbar,
Monterey Bay National Marine Sanctuary
299 Foam Street
Monterey, CA 93940

Re. CWC's 'GO!' Get Outdoors Program Application to the California Bay Watershed
Education and Training (B-WET) Program

Dear Ms. Nachbar and B-WET grant reviewers,

The Watsonville Wetlands Watch (WWW) is a non-profit, 501(c)3, community based organization dedicated to the protection, restoration and appreciation of the wetlands of the Pajaro Valley.

WWW recently joined with the City of Watsonville and PVUSD to build the Fitz Wetlands Educational Resource Center (WERC) at Pajaro Valley High School (PVHS), adjacent to two wetlands. With a greenhouse, indoor and outdoor classrooms, a native plant garden, and resource library, the WERC serves as a living laboratory. Currently, WWW runs three main programs: Wetland Stewards, an after school program for middle school students to do hands-on activities centered around developing a habitat garden and monitoring water quality; a grassed waterway/bio-swale restoration and monitoring project on the neighboring Watsonville Sloughs Ecological Reserve; and the Slough-Based Environmental Education Project, aimed at providing professional development for PVHS teachers as they develop and implement a hands-on, place based curriculum correlated to California State standards. WWW fully supports the Coastal Watershed Council's efforts to provide environmental education opportunities to young people in the Watsonville community, and we look forward to collaborating with CWC staff on the 'GO' program.

With the 'GO!' Get Outdoors! Program engaging Landmark Elementary School, the Watsonville Wetlands Watch is enthusiastic to provide our expertise about watershed education in the Watsonville Slough system to the project. As a program partner, we are pleased to commit to:

- Hosting the Landmark Elementary students on three field trip days with 30 students each to the Fitz Wetlands Educational Resource Center. WWW wetlands educational staff will provide hands-on activities on birds and native plants in our indoor and outdoor classrooms to engage students in watershed learning (Cost for staff time and facility use \$690).
- WWW restoration staff and educator will attend three field days with 30 students each with Landmark Elementary students near their school site to conduct habitat restoration or field watershed educational activities that tie in their local site work to the Pajaro Valley watershed (Cost for staff time and development \$660).

Watsonville Wetlands Watch understands that providing meaningful learning watershed experiences for citizens of all ages is one important step in manifesting community stewardship of our critical natural resources. For this reason, we are pleased to commit our support of CWC's 'GO!' Program proposal and encourage the B-WET grant program to consider funding this project. For questions or comments regarding WWW support or qualifications, please do not hesitate to contact me at (831) 728-1156.

Sincerely,

Robert Culbertson

President, Watsonville Wetlands Watch Board of Directors

Watsonville Wetlands Watch is a 501(c)3 non-profit organization.



Santa Cruz County Resource Conservation District

820 Bay Avenue, Suite 128
Capitola, California 95010

Ph: (831) 464-2950
sccrcd@sccrcd.org

Fx: (831) 475-3215

25 September 2006

Seaberry Nachbar,
Monterey Bay National Marine Sanctuary
299 Foam Street
Monterey, CA 93940

Re. CWC's 'GO!' Get Outdoors Program Application to the California Bay Watershed
Education and Training (B-WET) Program

Dear Ms. Nachbar and B-WET grant reviewers,

On behalf of the Santa Cruz County Resource Conservation District (SCCRCD), I am writing to express our support for the Coastal Water Council's 'Get Outdoors' (GO!) Program.

The SCCRCD is currently the lead agency on the regional Integrated Watershed Restoration Program (IWRP) in Santa Cruz County. IWRP is seeking to integrate the watershed programs of various state, federal, and local governments with each other and with the work being done by nonprofits and individuals. This program integrates education, outreach, and monitoring into our strategies for the future, in addition to completing on-the-ground projects. One key component of IWRP is to provide place-based meaningful watershed learning experiences for school age learners. Toward this end, we have developed a curriculum called Watershed Cruz'n.

Watershed Cruz'n is a companion curriculum to the comprehensive Waves, Wetlands and Watersheds curriculum. Watershed Cruz'n is place based (specific to Santa Cruz County) and expands the land-sea connection learning by including additional activities related to inland waterways. The next phase of this school age education component of IWRP will be to deliver the curriculum to teachers throughout Santa Cruz County.

The 06-07 school year marks the first year we are delivering the curriculum to teachers throughout Santa Cruz County by offering trainings and curriculum support. We are thus pleased to continue our partnership with CWC to implement the GO! Program into the 07-08 school year because it helps us meet our mission of getting this valuable curriculum into more classrooms with the support teachers need to offer successful meaningful watershed learning experiences.

The RCD proposes to continue our partnership in the program as follows:

- Provision of curriculum to CWC for use in Landmark Elementary School classrooms.
- Inclusion of both Valencia and Landmark Elementary teachers in Watershed Cruz'n workshops, trainings and technical assistance offerings available in school year 07-08.
- Engagement with GO! Program participants during year two of curriculum use to determine usefulness and refinement of the curriculum, as well as improve the program.

Programs that offer holistic learning experiences for youth and teachers are critical to develop environmental decision making skills, increase watershed literacy, and grow community interest in the importance of monitoring our watershed health. This program provides such a holistic experience for children and trains and equips teachers to continue this work into the future. For these reasons the SCCRCD is pleased to serve as a project partner in supporting this program, and look forward to implementing it for the 2007-2008 school year.

Sincerely,

Karen Christensen, Executive Director
Santa Cruz County Resource Conservation District



Monterey Bay National Marine Sanctuary

Teacher Curriculum
"The Land-Sea Connection"

August 2000

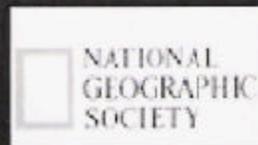


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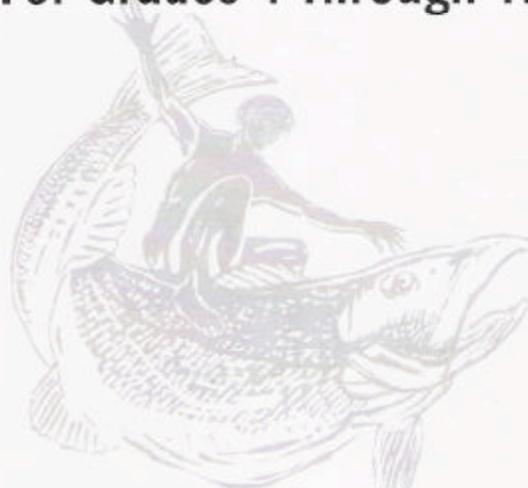
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WATERSHED CRUZIN'

An Activity Guide to Santa Cruz County Watersheds For Grades 4 Through 12



A Project of the
Integrated Watershed Restoration Program (IWRP)
for Santa Cruz County

Produced by the Santa Cruz County Resource Conservation District

Funded by the Coastal Conservancy and the
California Coastal Commission Whale Tail Grant Program

Julia Davenport, author
Mary Sievert, illustrator
Jenny Chambliss Design, layout design
Marian Langdon, editor

September 2005



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Grades 9-12

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IWRP Watershed Activity Guide CD-ROM contents

1. 100 images of historical (more than 50 years ago) aerial photographs, courtesy of the UCSC Science and Engineering Library
2. GIS maps of Santa Cruz County, including overlays with school locations, land use designations, rivers and streams, etc.
3. 30 historical images of Santa Cruz County, including historical uses of the watersheds (logging, tanneries, lime kilns, agriculture, etc.)