

**CALIFORNIA COASTAL COMMISSION**

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April 3, 2015

To: Commissioners and Alternates

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RE: 2014 Public Education Program Update

The Public Education staff had been scheduled to do its annual briefing at the December 11, 2014 Commission meeting. However, the briefing was postponed due to storm conditions, which hindered staff travel to the meeting.

The briefing will take place at the Commission meeting on April 15, 2015. Public Education Program staff will update the Commission on program activities and accomplishments for 2014.

Attached is the program's 2014 Annual Report.

*(In addition, the staff report prepared for the December 2014 meeting is available in the Coastal Commission meeting archives and at this link <http://documents.coastal.ca.gov/reports/2014/12/Th6-12-2014.pdf>)*



**THE CALIFORNIA COASTAL COMMISSION'S  
PUBLIC EDUCATION PROGRAM**

**2014 ANNUAL REPORT**

## Table of Contents

Introduction .....	3
Coastal Cleanup Day .....	4
Event Messages Reach Millions .....	4
Adopt-A-Beach .....	7
Japan Tsunami Marine Debris Cleanups.....	7
Coastweeks .....	8
New Check-off Box for “Protect Our Coast and Oceans Fund” .....	8
Whale Tail Grants .....	9
Boating Clean and Green .....	10
Children’s Art & Poetry.....	11
Ocean Day Kids’ Cleanup and School Assemblies .....	11
Ocean and Coastal Photography Contest .....	12
Creeks to Coast Directory .....	12
Waves, Wetlands and Watersheds.....	12
Community-Based Restoration and Education Program .....	13
Beach Wheelchairs .....	14
Marine Debris Policy and Coordination.....	14
Key Partnerships .....	15
Other Ways We Reach the Public.....	16

**Appendix A: Partner Organizations**

**Appendix B: Recent Grants Awarded From Sales of Whale Tail License Plate**

## Introduction

The California Coastal Commission is dedicated to protecting, restoring and enhancing California's coastal and marine resources. Acting under State and Federal law, the Commission regulates land development; participates in a land use-planning program with coastal cities, counties, and ports; promotes public access to the shoreline; and carries out a public education program.

Education is an important feature of an effective Coastal Program. In the California Coastal Act, the California Legislature declared "an educated and informed citizenry is essential to the well-being of a participatory democracy and is necessary to protect California's finite natural resources, including the quality of its environment" (Section 30012 (a)). Research shows that a knowledgeable population who values the coast and ocean is more likely to support environmental protection, and get involved in environmentally-beneficial activities. Individual behaviors, when considered cumulatively, can have a tremendous effect on the coast.

The Coastal Act directs the Coastal Commission to "carry out a public education program that includes outreach efforts to schools, youth organizations, and the general public for the purpose of promoting understanding of, fostering a sense of individual responsibility for, and encouraging public initiatives and participation in programs for, the conservation and wise use of coastal and ocean resources" (Pub.Res.Code, Section 30012(b)(1)).

The Commission's Public Education Program is dedicated to educating citizens of all ages, ethnicities, and income levels, whether they live along the coast or inland, about the importance of to preserving and protecting our coastal resources and what they can do to help. We involve the

general public, schools, civic groups, and businesses in hands-on educational programs that promote responsible stewardship of California's coast and ocean. In 2014 we involved 270,000 people in coastal protection through public education programs and events.

The Coastal Commission also supports others' educational efforts to equip and inspire students and the public to address environmental challenges. To this end, the Commission provides educational materials, grant funding, training, and technical support to a wide range of organizations and individual educators. We seek to promote ocean literacy, and cultivate public education efforts on marine debris, ocean pollution, habitat restoration, and other marine and coastal topics.

Our approach is through collaboration – we work with a variety of government agencies, non-profit organizations, citizen groups and businesses to achieve common goals. See attachment A for a list of partner organizations.

The main funding source for the Coastal Commission's education programs is the Whale Tail License Plate. Corporate contributions support the Coastal Cleanup Day Program through our partner, the California State Parks Foundation. And beginning in 2013, new source of funding, the Protect Our Coast and Oceans tax check-off, has raised additional funds for Whale Tail grants.

This report briefly describes the activities of the Commission's Public Education Program for the calendar year 2014.

## Coastal Cleanup Day

Following the lead of the state of Oregon, California organized its first Coastal Cleanup Day in 1985. Since then, the idea for the event has spread throughout the nation and internationally. California is now part of the International Coastal Cleanup, organized by Ocean Conservancy (formerly the Center for Marine Conservation), with participation by 45 states and over 100 countries.

The event continues to be the Commission's premier event, and since being recognized as the world's largest beach cleanup in 1993, the event has remained the state's largest single-day volunteer event. In 2014, 66,844 volunteers took part at one of over 850 cleanup sites around the state in 54 of California's 58 counties. This represented a 15% increase in volunteer participation over 2013!



JOIN OVER 60,000 CALIFORNIANS AS WE COME TOGETHER TO CLEAN UP OUR STATE'S BEACHES AND WATERWAYS

**CALIFORNIA COASTAL CLEANUP DAY**  
SATURDAY, SEPTEMBER 20<sup>TH</sup>, 2014



From 9AM to NOON | For more information visit [COASTALCLEANUPDAY.ORG](http://COASTALCLEANUPDAY.ORG) or call (800) COAST-4U



In addition to its strong support in coastal counties, the Cleanup Program recruits participants from inland areas to clean creeks, rivers and lakes. These volunteers help to illustrate one of the event's messages – that we are all connected to the coast and ocean by our rivers, streams, and storm drains.

In 2014, 23,244 volunteers cleaned inland rivers and waterways, removing 786,247 pounds of debris, which far exceeded the amount of trash recovered at coastal locations. Combined with the coastal counties of the state, Coastal Cleanup Day volunteers removed over 1,190,065 pounds of debris from the state's coast and inland shorelines. Over 100,000 pounds of this debris was recycled.

Looking back over the history of the program helps to highlight the cumulative benefit of this program to the health of our coast and ocean. Since the Coastal Cleanup Day Program's inception in 1985, over 1.3 million volunteers have helped remove over 21 million pounds of debris from California's coast, ocean, and inland shorelines.

### Event Messages Reach Millions

In addition to educating participants, the event messages reach a large and diverse audience through extensive television, radio, newspaper, and web coverage, as well as social media. This was made possible in part through a partnership with an advertising agency named BBDO, which donated their creative skills and time pro bono to develop the 2014 Coastal Cleanup Day artwork. Posters, postcards, bus back banners and t-shirts were printed with one of two different advertisements that the agency created to illustrate the notion that our environment is calling out for our help. (One of the posters can be seen on the previous page.) The message emphasizes the impacts that trash can have on our coastal and inland environments, and

the need for all of us to participate in the effort to rid our state of debris. That message was reinforced by a powerful TV Public Service Announcement that BBDO was able to create for the Cleanup as well, and for which they secured excellent free placement on multiple stations in the San Francisco, Los Angeles, and San Diego markets during the week before the Cleanup.

The impact that Coastal Cleanup Day can have on our environment was reinforced through a social media campaign entitled “Faces of Coastal Cleanup.” In the weeks leading up to and following the Cleanup, the Commission highlighted a different Cleanup volunteer on our Facebook page, along with their answer to one of several different questions that we sent around: [facebook.com/CaliforniaCoast](https://www.facebook.com/CaliforniaCoast). The result was a very personal way of illustrating how important the Cleanup is to so many different people, from all walks of life and all corners of the State. The campaign proved extremely popular among the event’s partners and posts were shared thousands of times over the course of the month leading up to the Cleanup.

The event also received extensive coverage in traditional media. It was covered by local TV news crews in many locations. Millions of television viewers are impacted by the image of thousands of volunteers spending the day cleaning the beaches, and by interviews with event organizers who help drive the pollution prevention message home. This also holds true for newspaper readers and radio listeners. The event was covered in over 400 newspaper, magazine, and on-line articles.

### **Corporate Partners in CCD**

The Coastal Cleanup Day Program has enlisted strong corporate partners, which have greatly assisted our outreach efforts. We continued our key, ongoing relationship with CG Roxanne, makers

of Crystal Geyser Natural Alpine Spring Water. In addition to their financial support, CG Roxanne provided free water, primarily in large, gallon-size containers, in 46 Coastal Cleanup regions, covering almost all of the Cleanup volunteers. This is a crucial benefit that helps local coordinators and volunteers immensely. The Coastal Cleanup Day Program also enjoyed continuing support from Oracle, the Whale Tail® Ecoplate, the National Oceanic and Atmospheric Administration (NOAA) and the California Office of Emergency Services (in support of the Tsunami Debris Cleanup Project, which included Coastal Cleanup Day), and an array of in-kind and media support from partners around the state. The Cleanup Program also enjoyed first-time support from Rubio’s Restaurants, which provided a coupon for a free taco to every Cleanup volunteer, and the San Francisco-based law firm Orrick, Herrington & Sutcliffe LLP.

### **CCD Influence on Business Practices**

An additional benefit of establishing Coastal Cleanup Day relationships with corporate partners is our ability to positively influence their business practices. One example of this is Whole Foods Market’s move in 2008 to eliminate the use of plastic grocery bags at their stores, a decision that was influenced by their participation in Coastal Cleanup Day.

Another example was introduced in 2010 by Crystal Geyser -- a completely recyclable bottle cap that stays attached to the water bottle, with no plastic parts that need be completely removed. Crystal Geyser developed this bottle cap as a direct response to their involvement with Coastal Cleanup Day and at the urging of Commission staff, in recognition of the large contribution plastic bottle caps make to our overall marine debris problem and the impact they have on our environment. Crystal Geyser continues to innovate and find new ways to reduce waste in their manufacturing process,



recently introducing the lightest weight water bottle on the market and eliminating all corrugated cardboard from their shipping processes.

### **BYO for CCD**

The Commission staff launched a new program in 2010 that has expanded each year since, known as “BYO for CCD.” In recognition of the need to reduce the amount of waste created by the event itself, the Coastal Cleanup Day Program asks volunteers to bring their own reusable cleanup supplies from home, rather than using the single-use disposable plastic items available at cleanup locations. Whenever possible, the Commission and our partners also provide reusable supplies like buckets and gardening gloves for volunteer use.



The initiative has been a great success, as we estimate that over one-half of all cleanup participants brought at least one reusable item from home to the Cleanup in 2014. As a result, the Commission was able to order 70,000 fewer trash bags for the 2014 event (than in 2010 when the BYO initiative was first implemented), and expects to lower our order even further in 2015. The initiative is helping to reduce the environmental footprint of the Cleanup while educating volunteers about simple lifestyle changes that cumulatively can have enormous, positive benefits to our coastal and marine environments.

### **Who are our Volunteers?**

In 2014, we again conducted a survey of Cleanup participants to gain information about our volunteers and their experience of participating in the cleanup e.g. how they heard about the event, whether participating in the event raised their awareness, and how they expect the experience to affect future behavior regarding the environment. We also use the survey to collect feedback and suggestions.

We used an on-line survey tool to collect 681 responses. Since it was not a random sample, it is important to consider these caveats – not everyone heard about the survey (depending on local site coordinator communication), and not everyone is inclined to take an on-line survey. That said, some general trends can be discerned from the survey results. For example, the biggest source of motivation to survey respondents in coming to the event is their concern for marine debris, especially impacts to wildlife. Almost all survey respondents (98%) report that participating in the event motivated them to take specific actions to protect the environment, such as educating others, picking up street and beach litter, reducing their use of single-use disposable items, etc.

In addition, the survey showed that participation in the Cleanup was educational, increasing respondents’ assessment of their knowledge of the causes and impacts of marine debris. 85% of respondents considered themselves either “knowledgeable” or “very knowledgeable” about the causes of marine debris after the event, as opposed to only 63% before the event, a 22% increase. Similarly, 82% of all survey takers considered themselves “knowledgeable” or “very knowledgeable” about the impacts caused by marine debris after the event, as opposed to 66% before the event, an increase of 16%. These findings

indicate that the Cleanup is both educational and motivational for many participants.

## **Adopt-A-Beach**

The Adopt-A-Beach Program offers groups a way to help take care of a favorite stretch of the coast or shoreline on a year-round basis. Volunteers pledge to clean their beach three times over the course of one year. School groups can fulfill the obligation with one cleanup. Over the past 20 plus years, tens of thousands of California schools, civic groups, businesses, scout troops, families and friends have adopted beaches throughout California.



All 15 coastal counties, plus Alameda and Contra Costa County participate in the program. The Commission coordinates 48 Beach Managers from 33 Adopt-A-Beach partner organizations (see Attachment A for a list of organizations) who run the program locally. These Beach Managers provide cleanup supplies, training, and educational materials, arrange for trash pickup, and sometimes deliver supplemental educational programs and public recognition. Some Beach Managers hold regular “drop-in” cleanups that anyone may attend.

The Commission provides Beach Managers with promotional materials, garbage and recycling bags, latex gloves, data cards, and pencils. In addition, the Commission maintains a free video loan library, and provides curricula, posters, and other materials to teachers and others to help educate Adopt-A-Beach groups about the importance of keeping our water clean.

The Commission staff compiles the data collected at many of the individual Adopt-A-Beach clean-ups. Based on reports from Alameda, Humboldt, Los Angeles, Monterey, Orange, San Diego, San Francisco, Santa Cruz, and Ventura Counties, over 25,500 people volunteered during one of the 919 Adopt-A-Beach Cleanups in 2014, contributing nearly 50,300 volunteer hours. Although not every group tracks the weight of their trash and recyclables removed, those who did collectively removed 20,444 pounds of trash and 1,979 pounds of recycling from our coast and shorelines.

## **Recognition for Beach Adopters**

Groups that adopt beaches are recognized on the Coastal Commission website and receive a certificate thanking them for their contribution. Over 150 groups adopted a California beach or shoreline in 2014 and received these recognitions.

## **Japan Tsunami Marine Debris Cleanups**

The Coastal Commission continued a new project that it had begun in 2013 focused on cleaning up the debris that originated with the 2011 earthquake and tsunami in Japan. Debris from this tragedy began washing up along the West Coast of North America before the end of 2011, and has been washing up fairly regularly ever since. Anticipating the arrival of this debris in California, Coastal Commission staff worked with the California Office of Emergency Services (CalOES) and others to plan and prepare.

Using support from NOAA, CalOES provided the Commission with a \$50,000 grant in 2013 to conduct regular beach cleanups along the entire coast. Commission staff developed a new data card focused on debris items likely to indicate potential tsunami debris and recruited and provided mini-



grants to local coordinators in each coastal county. Local organizers, in turn, recruited volunteers to conduct quarterly beach cleanups in 2013, with one coinciding with California Coastal Cleanup Day.

The program proved to be so successful that CalOES provided renewed and increased funding of \$250,000 to enable the project to continue through June of 2016. This new round of funds began July 1, 2014, and more than 1,700 volunteers participated in a Tsunami Debris Cleanup in 2014, with many more Cleanups scheduled throughout 2015 and the first half of 2016.

The data gathered at these events provides the Commission with a baseline against which we can compare data from future events, to give us a better understanding of when and where tsunami debris is washing up in California.

## Coastweeks

Coastweeks is a national celebration of our coastal resources. As the California coordinator for Coastweeks, the Commission maintains an on-line calendar and publicizes Coastweeks events. For three weeks (kicked off by Coastal Cleanup Day on the third Saturday in September) the public is encouraged to take part in activities that celebrate our coast and water resources, such as volunteer restoration days, beach hikes, ocean festivals, and scientific lectures. In 2014, our on-line calendar included a record 448 events, which is a 24%



increase over the prior year.

## New Check-off Box for “Protect Our Coast and Oceans Fund”

Governor Brown signed AB 754, authored by Assemblymember Al Muratsuchi, into law on September 21st, 2013. Beginning in 2014, California taxpayers had the opportunity to check a box and make a donation to the Protect Our Coast and Oceans Fund in the voluntary contributions section of the state tax return.



Gyro, an award-winning advertising agency with an office in San Francisco, worked with the staff pro bono to create a marketing campaign for the check-off box. The Campaign ran between February and May 2014 and featured a website ([www.checkthecoast.org](http://www.checkthecoast.org)), banner advertisements on websites such as LA Weekly, OC Weekly, and Surflife, advertisements in BART stations in the Bay Area, a video Public Service Announcement, a radio advertisement, and social media. In addition, numerous partner organizations expanded the Campaign’s reach through social media posts and Letters to the Editor.

Gyro is again assisting the Coastal Commission’s with a new campaign for Protect Our Coast and Oceans Fund for 2015. Donations to the Fund will support marine and coastal education and stewardship, through the Whale Tail Grants Program.

## Whale Tail® License Plate

As of January 1, 2015, over 226,000 California drivers had purchased the Commission’s Whale Tail® License Plate. Plate sales and renewal fees had raised \$81.7 million for environmental programs -

\$23.7 million to the California Beach and Coastal Enhancement Account (CBCEA) and \$58 million to the Environmental License Plate Fund (ELPF).

Each year, the legislature appropriates funds from the CBCEA to the Coastal Commission to carry out Coastal Cleanup Day, Adopt-A-Beach, and other coastal and marine education programs, including grants to schools, nonprofits, and local agencies. The CBCEA also funds projects of the State Coastal Conservancy. The ELPF funds a variety of state environmental programs.

The Whale Tail License Plate provides a way for the public to contribute funds to protect and conserve California's coast and ocean. Prior to 1998, the Coastal Commission's Public Education Program was supported financially by unpredictable sources, e.g. one-time grants, corporate contributions, in-kind donations, and federal funds. The Whale Tail License Plate was initiated through legislation in 1994. SB1411 established a special coastal environmental license plate to support the Commission's Adopt-A-Beach Program, Coastal Cleanup Day, and coastal and marine education.



## Whale Tail Grants

Whale Tail Grants distribute funds from sales of the license plate and support programs that teach California's children and the general public to value and take action to improve the health of the state's

marine and coastal environments. The program funds projects that foster environmental stewardship, and cultivate knowledge of and enthusiasm for marine science, with a focus on reaching communities that are poorly served in terms of marine and coastal education. Funding is provided in the following three categories: 1) Adopt-A-Beach programs; 2) Youth programs; 3) Programs for the general public. Applicants must be either a school, a non-profit organization, or a government entity.

The need for Whale Tail Grants consistently exceeds the available funds. In Fiscal Year 2013/2014, for its competitive grants program, the Commission received 91 grant applications for a total of \$2,241,515 and awarded 23 grants totaling \$392,126.

In addition, the Commission awarded seven targeted grants, totaling \$423,874. To date, the program has awarded \$9.7 million in grants to a wide range of organizations. (See Attachment B for a table showing the grants that were awarded recently).

Examples of projects funded in 2014 included: bilingual ocean stewardship activities for children and their parents in Salinas; studies about earth science, carbon dioxide emissions, climate change, and renewable resources in City Heights, San Diego; training for docents and naturalists statewide on speaking to the public about Marine Protected Areas; raising and releasing salmon and steelhead trout in Del Norte County; watershed stewardship activities for elementary students in Guadalupe, Santa Barbara County; and measuring the ecological health of urban sandy beaches in southern California and sharing the data with land managers.

## Boating Clean and Green

The Boating Clean and Green Program, which began in 1997, promotes environmentally sound boating through education and by working with marinas and local governments to increase availability of environmental services for boaters. The Coastal Commission works in partnership with the California State Parks Division of Boating & Waterways to implement the program.



The Program's Dockwalker Program develops clean boating kits and provides volunteers with training and tools to conduct face-to-face boater education and distribute the kits. In 2014, the Boating Clean and Green Program conducted 12 statewide Dockwalker volunteer trainings in which more than 160 new volunteers were trained. These volunteers distributed 6,700 boater kits to the public.



In addition, program staff directly connected with over 1500 boaters through its participation in five boat shows and boating events, and by conducting four clean boating seminars.

With support from the BoatUS Foundation, the program has installed a total of 148 monofilament fishing line recycling stations throughout the state since 2009. To date, approximately 1,033 pounds of

fishing line have been collected and properly recycled. Stretched out, this line would stretch from San Francisco, California to Rector, Arkansas.

The Changing Tide is the quarterly publication of the three chapters of the CCBN (California Clean Boating Network – a forum of members of from the boating industry, government agencies, and environmental groups). In 2014, the program distributed three issues (11,000 copies each). The newsletter focuses on new trends in clean boating practices and environmental services for boaters.

From 2010 to 2012 program staff led a working group in developing the Marinas and Yacht Clubs Spill Response Communication Packet. The Packet is designed to help boating facilities access needed information in the event of an oil spill. In 2014, staff, OSPR and CalOES conducted two workshop for boating facilities in San Diego and Redondo Beach to introduce the packet. The workshops were attended by 80 marina and yacht club operators. In addition, staff conducted a boom training in partnership with OSPR and CalOES for the Bay Area and Delta marine industry representatives. This workshop was attended by 36 boating facilities operators. Staff is currently planning additional workshops for Ventura and Long Beach areas

Program staff developed a toolkit for marinas and yacht clubs that will assist these facilities in planning and organizing their participation in Coastal Cleanup Day (CCD) and the Adopt-a-Beach Program. In 2014, thirty-eight boating facilities participated in CCD, involving 818 volunteers, who cleaned 48 miles of shoreline and collected 7,032 pounds of trash and recyclables on land and from 154 non-motorized vessels.

## Children's Art & Poetry

The Coastal Art & Poetry Contest is open annually to California students in kindergarten through 12th grade. The contest invites students to submit poetry or art with a coastal or marine theme. By encouraging youth to reflect on the beauty and spirit of California's beaches and ocean, we hope to inspire a greater sense of stewardship for these natural places.

Every year, five winners each in art and poetry are selected, and around 40 honorable mentions are recognized. Since the contest began in 2003, nearly 24,000 entries have been received from students from throughout California. In 2014, 2,331 entries were submitted to the contest. See winners at: [www.coastal.ca.gov/publiced/poster/poster.html](http://www.coastal.ca.gov/publiced/poster/poster.html)

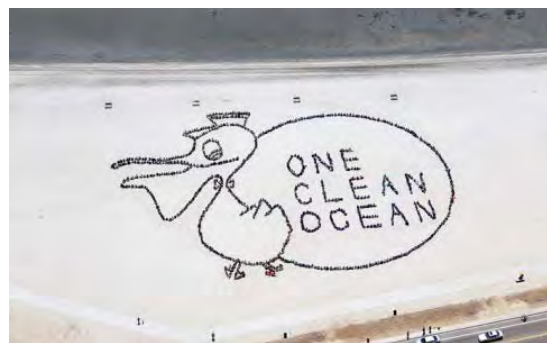
Following each contest, the winning and honorably mentioned pieces are exhibited at venues up and down the coast. The 2014 contest exhibit locations were Channel Islands National Park Visitor Center in Ventura; Point Reyes National Seashore's Bear Valley Visitor Center in Marin County; the Ford House Museum in Mendocino; and Birch Aquarium at Scripps in La Jolla. Previous years' winners were placed on exhibit during 2014 at the Humboldt Bay National Wildlife Refuge visitor center, Santa Cruz State Beach visitor centers and at Westhaven Center for the Arts in Trinidad, California. Artwork from the Coastal Art & Poetry Contest is used in many Commission publications and throughout the Commission's website.

## Ocean Day Kids' Cleanup and School Assemblies

Since 1993, the Coastal Commission has worked with the Malibu Foundation for Environmental Education and other partners to conduct the Ocean Day Kids' Cleanup and School Assembly Program. The assembly shows students the way to cleaner beaches and oceans. By presenting slides and talking about recycling, the dangers of plastic and debris in the world's oceans, litter reduction and the storm drain system, the assembly prompts children to care for the marine environment.

The children are then shown a way to help the environment – by doing a beach cleanup. The program focuses on underserved schools and provides grants to assist the schools with the costs of the beach trip.

In 2014, Kids' Cleanups were held in May and early June in recognition of World Oceans Day (June 8th). Approximately 6,900 students cleaned six sites: Crown Point Shores in San Diego County (700), Huntington State Beach in Orange County (1,266), Dockweiler State Beach in Los Angeles County (3,377), Ocean Beach in San Francisco (636), Municipal Beach in Monterey (169 students from Fresno), and Humboldt Bay (780).



In most locations, after cleaning the beach, the students formed giant images and messages in the sand that were photographed from the air, such as this one featuring a pelican in San Diego. Other



cities featured different seabirds, and Los Angeles formed the world's largest text message. All of the 2014 aerial images, as well as those from past years can be viewed at [www.oceanday.net](http://www.oceanday.net).

## Ocean and Coastal Photography Contest

In 2014 the Commission continued its partnership with the Thank You Ocean Campaign, jointly holding an online contest featuring digital imagery of the scenic coast and Pacific Ocean off California, people at the California coast, and California ocean and coastal wildlife.



Fairmont Hotels & Resorts of California donated overnight stays at luxury hotels for the prize winners, which included first, second and third place winners selected by a panel of expert judges, and a "Viewers' Choice" winner based on online voting. The winning photographs, along with 14 honorable mentions, were selected from a record 1,312 entries, and are featured on the contest website, <http://mycoastalphoto.com>.

## Creeks to Coast Directory

The Creeks to Coast Directory is a fully searchable resource for organizations active in marine, coastal and/or watershed issues within California. Approximately 440 organizations are in the database, including information on their mission, programs, volunteer opportunities, and links to their website and contact details. Organizations can

edit their own entries and new organizations can input their data, which is approved by Commission staff before going live on the website.

Staff is working on an ongoing basis to further build up and update the database, with the overall goal of achieving and maintaining a comprehensive collection of organizations in this field. The database is intended for researchers, educators, students, and those seeking volunteer opportunities within their community. The Creeks to Coast Directory is on the Public Education page of the Commission's website at:

[www.coastal.ca.gov/publiced/creekstocoast](http://www.coastal.ca.gov/publiced/creekstocoast).

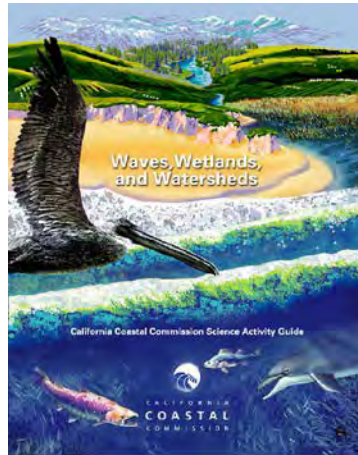
## Waves, Wetlands, and Watersheds

In 2014, outreach and distribution continued for Waves, Wetlands, and Watersheds, the Commission's science activity guide for California teachers. This guide addresses such issues as marine debris, beach geology, water quality and conservation, endangered species, and wetlands protection. It presents lessons aligned to the California State Science Content Standards for grades three through eight and includes a "community action" chapter with activities that encourage students of all ages to take action to protect our coast. The connection between inland areas and the ocean is emphasized throughout, so the lessons are relevant for students living in all regions of California.

Between February 2003 and December 2014, the Commission distributed more than 16,675 hard copies of Waves, Wetlands, and Watersheds (including 5,000 copies produced by the City of Los Angeles in 2004 for local distribution) and held a total of 94 teacher workshops directly reaching 1,893 educators. The book can be downloaded from the Commission's website, and Spanish translations of the student handouts are available.



In 2014, staff held five workshops, in El Cajon, Manila, Rancho Palos Verdes, Santa Barbara, and Long Beach; in partnership with San Diego Science Alliance, Friends of the Dunes, Bureau of Land



Management, the CREEC Network, Ty Warner Sea Center, and the National Science Teachers Association. Activities from the book have been adapted for numerous other publications and audiences, and *Waves* has been incorporated into many educator workshops held by other organizations.

### **New High School Curriculum**

During fall 2014, the Commission staff began work on a new high school curriculum about coastal science, policy, and management in the context of the issues facing the California coast. Staff is working with a curriculum writer who is developing project-based learning units that are aligned to the Next Generation Science Standards and Common Core State Standards. The curriculum is to be completed by the end of 2015.

### **Community-Based Restoration and Education Program**

The purpose of the Community-Based Restoration and Education Program (CBREP) is to facilitate community-driven coastal habitat restoration in California. The program began in 2001 to restore critical species' habitat of the Upper Newport Bay



through the work of community volunteers. Working out of the Back Bay Science Center in Newport Beach, CBREP has an on-site native plant nursery that provides plants for volunteer restoration efforts. In 2014, volunteers at the native plant nursery propagated nearly 2,520 native plants.

The Program organizes a monthly volunteer restoration event at sites around the Upper Newport Bay, as well as weekly "Steward" gatherings to work in the nursery on plant propagation and other projects. To date, over 21,600 volunteers have removed over 94,300 pounds of invasive vegetation, planted more than 23,800 native plants, and restored over 15 acres of coastal habitat.

The Commission implements the Program in conjunction with the Tides Center, and works closely with the land managers at Upper Newport Bay – the California Department of Fish and Wildlife, Orange County Parks, and the City of Newport Beach, as well as with the Newport Bay Conservancy, a non-profit volunteer group.

In 2014, we worked on maintaining and expanding current restoration sites. Volunteers attending our restoration events represented schools, community groups, and corporations through such varied groups as Chapman University, Deutsche Bank, ExplorOcean, Starbucks, AP Environmental Science classes from local high schools, and Scouting troops. We also gave a presentation and site tour for the Orange County Natural History Lecture Series, and our work was represented at the conference of the California Society for Ecological Restoration.

The program hired a part-time Restoration Coordinator in 2014 to focus on the management and execution of volunteer restoration

events and the restoration site monitoring program. In addition, a partnership with the UC Irvine Center for Environmental Biology provided student “Education and Outreach” interns for our volunteer restoration events. These interns gain valuable experience developing their environmental education skills and enhance the educational value of the events for bay visitors.

In November 2014, the program was awarded a large grant from the Wildlife Conservation Board. The funds will be used to complete a 15 acre restoration project at a site within the Upper Newport Bay, known as Newport Valley. The \$381,000 grant will be spent over five years.



CBREP continued to distribute “Digging In: A Guide to Community-based Habitat Restoration.” The Guide explains the basic steps of information gathering, site selection, project implementation, monitoring, maintenance, and working with volunteers. In 2014, staff provided technical assistance to several local government agencies and non-profit organizations to assist in the development of their own community-based restoration programs.

## Beach Wheelchairs

The Commission’s beach wheelchair program aims to ensure that these chairs, which have wide, balloon tires that are able to move across soft sand, are widely available for public use. To this end, the Commission has awarded a total of \$103,000 to a variety of jurisdictions up and down the coast for the purchase of beach wheelchairs. By our count 98 California beaches now have beach wheelchairs that can be borrowed by members of the public, and the Commission has provided funding for approximately 40% of those. The Commission also maintains a



webpage that shows the location of beaches with wheelchairs available for use by the public.  
[www.coastal.ca.gov/access/beach-wheelchairs.html](http://www.coastal.ca.gov/access/beach-wheelchairs.html)

## Marine Debris Policy and Coordination

Research conducted by the Algalita Marine Research Foundation (AMRF) and others has demonstrated that plastics are present on beaches and in coastal and in ocean waters in alarming quantities. In a 2000 study, AMRF found that degraded plastic pieces outweigh surface zooplankton in the central North Pacific by a factor of six to one (six pounds of plastic for every pound of zooplankton). In 2002, another AMRF study showed the average mass of plastic was two and a half times that of plankton on the surface of the coastal waters near Long Beach, California.

These findings prompted the Coastal Commission to team with AMRF and other stakeholders to develop a statewide plan: “Eliminating Land-based Discharges of Marine Debris in California: A Plan of Action from the Plastic Debris Project.” In 2007, the California Ocean Protection Council (OPC) passed a resolution based on the Plan of Action regarding the prevention of marine debris, and set up a Steering Committee chaired by Coastal Commission Public Education staff to develop an Implementation Strategy. The OPC adopted the Implementation Strategy in 2008.

Since this time, at least 12 different bills have been introduced to the State Legislature that were based on the recommendations of the Implementation Strategy. Public Education staff continues to coordinate with the OPC and other state agencies on the marine debris issue.

In 2006, Governors of Washington, Oregon, and California entered into an agreement to work together on ocean issues of mutual concern, called the West Coast Governors’ Agreement on Ocean Health (WCGA). Coastal Commission Public Education staff chaired the Marine Debris Action Coordination Team (MDACT), which was charged with establishing baseline estimates of marine debris and derelict gear along the West Coast and supporting state and federal policies that achieve marine debris reduction goals (see MDACT’s strategy at: [www.westcoastoceans.org](http://www.westcoastoceans.org)).

To this end, the MD ACT launched the West Coast Marine Debris Database, which can compile historic data from all existing databases as well as accept new data directly, and will help to establish baseline estimates of marine debris and derelict fishing gear. It can be viewed at: <http://debrisdb.westcoastoceans.org>

In 2014, the MDACT officially transitioned to a new quasi-independent organization known as the West

Coast Marine Debris Alliance (The Alliance). While still under the auspices of the West Coast Governors’ Alliance, the Marine Debris Alliance will work with greater independence than the MDACT, and with a greatly expanded membership. The Alliance is designed to act as the entity that will carry forward the work suggested in the Marine Debris Strategy in the years to come.

## **Environmental Literacy Task Force**

In 2014, the Public Education staff participated in the Environmental Literacy Task Force (ELTF), established by Superintendent of Public Instruction Tom Torlackson. The ELTF is tasked with developing an Environmental Literacy Blueprint, which will guide the state in improving students’ environmental literacy. An environmentally literate citizen has the knowledge, skills, attitudes, motivation, and commitment to work individually and collaboratively toward solving current problems and preventing new ones. The task force began meeting in June 2014 and will complete the blueprint by May 2015.

## **Key Partnerships**

Partnerships are essential to the work that the Coastal Commission staff members do. They enable us to leverage our resources and extend the impact of our programs. Some of our partnerships are mentioned in the descriptions of the various programs above; all are listed in Appendix A.

In addition, we coordinate with other agencies conducting environmental education programs by participating in the California Environmental Education Interagency Network (CEEIN). CEEIN is a state government consortium of environmental educators representing departments, boards and commissions of the California Department of Education, California Environmental Protection

Agency, and the Resources Agency of California. We also serve on the Advisory Council to Community Resources for Science.

## Other Ways We Reach the Public

A key aspect of the Commission's public education programs is spreading the word about what opportunities are available, and using these same channels to raise public awareness and encourage stewardship. In addition to sending out press releases about upcoming events and other newsworthy activities, here are some other ways we keep the public informed:

### WWW.COAST4U.ORG and Social Media

The Commission's web site for its public education programs describes all of the programs, contests, and resources that we offer to the public, including a Spanish language web page. In 2014, the Public Education website received almost 235,800 page views.

The Public Education program uses social media to communicate with the public. We maintain a Facebook page called "The California Coast" with more than 3,570 fans, a Twitter account @TheCACoast with 5,425 followers, a Pinterest Board and an Instagram page. Through these avenues we engage in conversations with members of the public, other organizations and agencies about volunteer opportunities, visiting and enjoying the coast, and ways to protect our coastal resources through everyday activities. As a statewide organization, social media provides us with a way to connect on a personal level with people throughout California and beyond.

**Website:** [www.coast4u.org](http://www.coast4u.org)

**Facebook:** [www.facebook.com/CaliforniaCoast](http://www.facebook.com/CaliforniaCoast)

**Twitter:** [twitter.com/TheCACoast](http://twitter.com/TheCACoast)

**Instagram:** [instagram.com/thecaliforniacoast](http://instagram.com/thecaliforniacoast)

**Pinterest:** [www.pinterest.com/coast4u/](http://www.pinterest.com/coast4u/)

## Environmental Fairs and Events

Each year, staff attends a number of environmental fairs and events, where we have an educational booth, hand out materials, and talk to attendees. This year we exhibited our education resources and spoke to 2,125 people at 13 events. Our 2014 list of events included Saint Ignatius Enrichment Fair, Monterey Whale Fest, Mendocino Whale Fests, San Jose State Earth Day, Los Angeles Sanitation Districts Earth Day, Earth Day at Drake High School in San Anselmo, Pacifica Earth Day of Action, San Diego County Fair in Del Mar, California State Fair in Sacramento, State Scientists Day in Sacramento, Beneath the Waves Film Festival in Santa Cruz, Olompali Heritage Day in Marin County, and the Friends of San Leandro Creek Environmental Forum.



CCC Booth at California State Fair in Sacramento



## Appendix A – Page 1

### Partner Organizations

*Note: If you are aware of an omission or correction, please contact us.*

#### Coastal Cleanup Day

##### *Current Local Coordinators:*

Adopt-A-Highway CALTRANS Maintenance Program	Golden Gate National Parks Conservancy
Alameda County Clean Water Program	Heal the Bay (Los Angeles County)
American River Parkway Foundation (Sacramento)	I Love A Clean San Diego
Benicia Water Education Program Big Bear Marina (San Bernardino)	Lake County Department of Water Resources
Bridgeport Elementary School (Mono)	League to Save Lake Tahoe
Butte Environmental Council	Literacy for Environmental Justice
Cache Creek Conservancy	Mendocino Land Trust
Calaveras Big Trees State Park	Napa Resource Conservation District
California State Parks	Northcoast Environmental Center (Humboldt)
City of Berkeley Shorebird Park Nature Center	Orange County Coastkeeper
City of Fremont	Orange County Volunteer Services
City of Long Beach El Dorado Nature Center	Port of Oakland Premier
City of Milpitas	Mushrooms Restore Our Sea (Imperial)
City of Oakland Watershed Improvement Program	San Joaquin County Public Works
City of Pleasanton	San Joaquin River Parkway & Conservation Trust, Inc.
COASTWALK	San Mateo Countywide Water Pollution Prevention Program
Community Creek Cleanup Action Group (Redding, Shasta)	Santa Clara Valley Water District
County of Orange/OC Parks Volunteer Services	Save Our Shores (Santa Cruz & Monterey)
County of Santa Barbara, Public Works Department, Resource Recovery & Waste Management Division	Sierra Nevada Conservancy
Del Norte Unified School District, Crescent Elk M.S.	Silverwood Lake SRA
East Bay Regional Park District	Solano County RCD
ECOSLO	The Watershed Project
Environmental Health Institute	Trails 4 All
Explore Ecology	U.S. Army Corps of Engineers - Bay Model Visitor Center (Marin County)
	UC Merced
	U.S. Forest Service Orleans Ranger District (Siskiyou)
	Ventura County Coalition for Coastal & Inland Waterways
	Yuba County Dept. of Environmental Health



## Appendix A – Page 2

### **Other Coastal Cleanup Day Partners:**

California State Parks Foundation	Ocean Conservancy
Channel Islands National Marine Sanctuary	Cordell Banks National Marine Sanctuary
Gulf of the Farallones National Marine Sanct.	Monterey Bay National Marine Sanctuary
CG Roxane Crystal Geyser Spring Water	Marine Mammal Center
Whale Tail Ecoplate	See's Candies
Oracle	
Rubio's	NOAA
Orrick, Herrington & Sutcliffe LLP	California Office of Emergency Services

### **Whale Tail License Plate**

Department of Motor Vehicles	State Coastal Conservancy
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### **Adopt-A-Beach**

Ano Nuevo State Reserve	I Love A Clean San Diego
California State Parks	La Conchita Community Organization
Center for Natural Lands Management	Marin County Parks and Open Space
Channel Islands Beach Community Service District	Northcoast Environmental
City of Berkeley Shorebird Park Nature Center	National Parks Service
City of Huntington Beach	Oosurf.com
City of Long Beach El Dorado Nature Center	Pacifica Beach Coalition
City of Newport Beach	Point Reyes National Seashore
City of San Leandro	Santa Barbara County Parks Department
City of San Mateo	Santa Cruz County Parks
City of Santa Barbara, Creeks Division	Save Our Beach
City of Ventura, Partners in Progress for a Beautiful Ventura	Save Our Shores
Coastwalk	Sonoma County Regional Parks
East Bay Regional Park District	Surfrider Foundation The
Eco Warrior Foundation	Watershed Project
Heal the Bay	Vandenberg Air Force Base
	Ventura County Parks

## Appendix A – Page 3

### Boating Clean and Green Campaign

CA Division of Boating and Waterways	The US Coast Guard Auxiliary
CalRecycle	The US Power Squadrons
Contra Costa County Public Works	The State Water Resources Control Board
The Bay Foundation	The Boat US Foundation
SF Bay Conservation and Development Commission	SF Estuary Project
Northern CA Marine Association	The US Coast Guard Marine Safety Offices
Southern CA Marine Association	Recreational Boaters of California
Pacific States Oil Spill Prevention Education Team	CA Port Captains and Harbormasters Association
Marine Recreation Association	CA Department of Fish and Game - OSPR
Pacific Inter Yacht Club Association	Monterey Bay National Marine Sanctuary
San Joaquin County Department of Public Works	Lake Berryessa Partnership
Save Our Shores	Marinas and harbors (approximately 20)
Southern CA Yachting Association	Morro Bay National Marine Sanctuary
	San Francisco Dept. of the Environment
	Seabird Colony Protection Program (National Marine Sanctuaries-Gulf of the Farallones)

### Kids' Adopt-A-Beach School Assemblies and Ocean Day Cleanup

Malibu Foundation	Fresno Chaffee Zoo
I Love A Clean San Diego	Friends of the Dunes
Richardson Bay Audubon Center & Sanctuary	National Fisheries Conservation Center
Orange County Coastkeeper	

### Restoration Education

Tides Center	California Department of Fish and Game
Orange County Parks City of	U.C.C.E. Master Gardeners Program
Newport Beach Newport	U.C. Irvine
Bay Conservancy Orange	Society for Conservation Biology, Orange County Chapter
County Coastkeeper	Institute for Conservation Research and Education
Endemic Environmental Services, Inc.	
ExplorOcean	
Transformative Wellness Coaching	

## Appendix A – Page 4

### Coastal Stewardship

Monterey Bay Aquarium	Heal the Bay
Back to Natives Restoration	Shorebird Nature Center
Benicia Water Education	I Love A Clean San Diego
City of San Mateo	San Joaquin County Public Works
Coastwalk	Santa Cruz County Parks
El Dorado Nature Center	Ventura County Resource Conservation District

### Marine Debris Policy and Statewide Coordination

California Ocean Protection Council	State Water Board
CalRecycle	State Coastal Conservancy
Department of Conservation	California Department of Environmental Protection
Department of Toxic Substances Control	Environmental Protection Agency Region IX
California State Parks	Caltrans
California Department of Public Health	Keep California Beautiful

### West Coast Governors' Agreement on Ocean Health Marine Debris Action Coordination Team

Oregon Department of Fish & Wildlife	Monterey Bay National Marine Sanctuary
Washington Department of Natural Resources	Pacific States Marine Fisheries Commission
NOAA Marine Debris Program	Northwest Straits Commission
NOAA Coastal Services Center	Sea Grant Extension
Surfrider Foundation	Stillaguamish Tribe
Port of Seattle	Sea Doc Society / UC Davis
Heal the Bay	Oregon Fishermen's Cable Commission
California Ocean Protection Council	

## Appendix A – Page 5

### Protect Our Coast and Oceans Tax Check-off Box

Assemblymember Al Muratsuchi	Aquarium of the Pacific
Gyro SF	ExplorOcean
Heal the Bay	Crystal Cove Alliance
I Love A Clean San Diego	Save the Bay
Orange County Coastkeeper	Community Resources for Science
Save Our Shores	CREEC Network
San Mateo County Environmental Health	Coastwalk California
Friends of the Dunes	5 Gyres
Thank You Ocean	Surfrider Foundation
Pt. Reyes National Seashore Assn	Ocean Institute
Coastkeeper Alliance	Back Bay Science Center (Dept. of Fish and Wildlife)
Environment California	Institute for Conservation Research and Education
American River Parkway	Newport Bay Conservancy
Sierra Nevada Conservancy	Muth Center (Orange County)
O'Neill Sea Odyssey	Malibu Foundation
Fresno Chaffee Zoo	City of Newport Beach (Marine Education Program)
Monterey Bay Aquarium	The Watershed Project
The Bay Foundation	California Audubon
SF Estuary Partnership	Golden Gate Audubon
Solano Resource Conservation District	Richardson Bay Audobon
Penny Elia	Contra Costa County Watershed Program
Birch Aquarium	Humboldt BayKeeper
Warner Chabot	Northcoast Environmental Center
Aquarium of the Bay	

## Appendix B – Recent Whale Tail Grants

	Targeted Grants	Competitive Grants
<b>2012/2013</b> <b>\$798,000</b> <b>Total</b>  Funds avail. for targeted grants: \$369,540  Funds avail. for competitive grants: \$428,460  Requests received: 128 totaling \$2,591,762	Foundation of California State University Monterey Bay for <b>Camp SEA Lab</b> <b>\$30,000</b>	<b>Audubon California</b> for students in San Diego and Los Angeles to learn about shorebirds and design signs on the beach warning not to disturb nesting sites  <span style="float: right;"><b>\$33,310</b></span>
	<b>Adopt-A-Beach School Assembly Program and                      Kids’ Cleanup Program</b> <b>\$95,600</b>	<b>Berkshire Elementary School</b> for sixth-graders in Bakersfield to attend Camp KEEP, a four- day outdoor science school in San Luis Obispo County  <span style="float: right;"><b>\$8,800</b></span>
	<b>Heal the Bay</b> Adopt-A-Beach Program  <span style="float: right;"><b>\$30,000</b></span>	<b>Fresno Chaffee Zoo</b> for a cohort of teens to interact with zoo visitors and promote marine conservation  <span style="float: right;"><b>\$6,400</b></span>
	<b>I Love A Clean San Diego</b> Adopt-A-Beach Program  <span style="float: right;"><b>\$27,000</b></span>	<b>Friends of the Dunes</b> to provide coastal education activities in Manila, Humboldt County for Montessori students, who will then help educate the public  <span style="float: right;"><b>\$14,162</b></span>
	Tides Center for <b>School-Based Marine Education                      Program</b> <b>\$88,000</b>	<b>Mayfair Middle School</b> to add hands-on labs and other educational activities to a marine science elective in Lakewood, Los Angeles County  <span style="float: right;"><b>\$5,230</b></span>
	Tides Center for <b>Community-Based Wetland                      Restoration and Education</b> <b>\$80,000</b>	<b>Monterey Bay Aquarium</b> for the Splash Zone/Head Start Discovery program for underserved preschoolers in Santa Cruz and Monterey counties  <span style="float: right;"><b>\$10,000</b></span>
	<b>Beach Wheelchair</b> Purchases <b>\$18,940</b>	<b>Mountains Recreation and Conservation Authority</b> for developing an oceans unit for the Junior Rangers Program for urban youth from the Los Angeles area  <span style="float: right;"><b>\$9,993</b></span>
		<b>Ohlone Elementary School</b> in Watsonville for a new wetlands unit for third-grade classes  <span style="float: right;"><b>\$7,585</b></span>
		<b>Point Reyes National Seashore Association</b> for seashore science field education programs for underserved Bay Area youth  <span style="float: right;"><b>\$30,000</b></span>
		<b>San Diego Junior Lifeguard Foundation</b> for a summer program teaching ocean science to youth ages 10-14  <span style="float: right;"><b>\$22,500</b></span>
	<b>Smith River Alliance</b> for the Tolowa Dunes Stewards program to restore dune habitat in Del Norte Co. and teach Native American and other youth participants  <span style="float: right;"><b>\$29,756</b></span>	
	<b>YMCA Point Bonita</b> for “My Home, My Community, My World,” a science education program for underserved schools in Marin City  <span style="float: right;"><b>\$9,900</b></span>	
	<b>California Native Plant Society</b> for the “California Coastal Rare Plant Treasure Hunt” in the southern half of the state  <span style="float: right;"><b>\$25,000</b></span>	



## Appendix B

Fiscal Year	Targeted Grants	Competitive Grants
<b>2012/2013 (continued)</b>		<p><b>Concerned Resource and Environmental Workers (“the CREW”)</b> to employ young adults to restore habitat along the lower Ventura River <span style="float: right;"><b>\$9,800</b></span></p> <p><b>Reef Check Foundation</b> to train volunteer divers to collect data on underwater species off the California coast, especially in Marine Protected Areas <span style="float: right;"><b>\$25,000</b></span></p> <p><b>SPAWN, a project of Turtle Island Restoration Network</b> to develop a Coast &amp; Ocean module for the California Naturalist Program <span style="float: right;"><b>\$9,880</b></span></p> <p><b>Seymour Marine Discovery Center</b> in Santa Cruz to increase its capacity to serve Spanish-speaking audiences <span style="float: right;"><b>\$9,370</b></span></p> <p><b>Southwest Wetlands Interpretive Association</b> for formalizing the training for its long-term volunteer docents at the Tijuana Estuary <span style="float: right;"><b>\$25,000</b></span></p> <p><b>UC Santa Cruz Arboretum</b> for engaging community members in restoring habitat for the threatened red-legged frog <span style="float: right;"><b>\$10,500</b></span></p> <p><b>University of Redlands</b> for developing a mobile app and website for people to record where they spot marine mammals while learning more about them <span style="float: right;"><b>\$33,272</b></span></p> <p><b>Coastwalk California</b> for expanding the Adopt-A-Beach program in Sonoma County and adding educational components <span style="float: right;"><b>\$9,779</b></span></p> <p><b>Save Our Shores</b> for launching the Beachkeepers program in Santa Cruz County and installing trash bag holders so beach visitors can clean up on their own <span style="float: right;"><b>\$25,610</b></span></p> <p><b>The Watershed Project</b> in Richmond for strengthening the Contra Costa County Adopt-A-Beach program and incorporating on-the-water kayak cleanups <span style="float: right;"><b>\$17,313</b></span></p> <p><b>Navarro-by-the-Sea Center for Riparian &amp; Estuarine Research</b> for installing interpretive panels at the Navarro River mouth in Mendocino County <span style="float: right;"><b>\$40,300</b></span></p>

## Appendix B

	Targeted Grants	Competitive Grants
<p><b>2013/2014</b> <b>\$816,000</b> <b>Total</b></p> <p>Funds avail. for targeted grants: \$423,874</p> <p>Funds avail. for competitive grants: \$392,126</p> <p>Requests received: 105 totaling \$2,665,389</p>	<p>Foundation of California State University Monterey Bay for <b>Camp SEA Lab</b>     <b>\$15,000</b></p> <p><b>Adopt-A-Beach School Assembly and Kids’ Cleanup Program</b>                     <b>\$100,314</b></p> <p><b>Heal the Bay</b> Adopt-A-Beach Program    <b>\$30,000</b></p> <p><b>I Love A Clean San Diego</b> Adopt-A-Beach Program    <b>\$29,550</b></p> <p>Tides Center for <b>School-Based Marine Education Program</b>                                 <b>\$99,000</b></p> <p>Tides Center for <b>Community-Based Wetland Restoration and Education</b>         <b>\$106,000</b></p> <p><b>Earth Alert</b> for the “Heroes of the Coast” project    <b>\$9,360</b></p> <p>California State Parks Foundation for a <b>high school curriculum</b> on <b>coastal science and policy</b>    <b>\$34,650</b></p>	<p><b>Ocean Discovery Institute</b> for sixth-graders from City Heights, San Diego to learn about carbon dioxide emissions, climate change, and renewable resources     <b>\$22,407</b></p> <p><b>Youth Outdoors!</b> for teens from southern San Diego County to visit the Tijuana Estuary to learn about the area and restore habitat     <b>\$5,500</b></p> <p><b>San Elijo Lagoon Conservancy</b> for a 2-year wetlands and watersheds program for elementary students in Escondido and Vista     <b>\$18,272</b></p> <p><b>ExplorOcean</b> for underserved students in the KidWorks program in Santa Ana to learn about the principles of ocean literacy and attend camp in Newport Beach     <b>\$35,000</b></p> <p><b>Gray Whale Foundation</b> for whale observation research trips and lessons about gray whales and the marine environment for southern Orange County youth     <b>\$20,000</b></p> <p><b>Beach Ecology Coalition</b> for community volunteers to measure the ecological health of urban sandy beaches in southern California     <b>\$9,915</b></p> <p><b>Camino Nuevo Charter Academy</b>, in the Westlake neighborhood of Los Angeles, for seventh-grade students to visit and research Santa Catalina Island     <b>\$6,000</b></p> <p><b>City2 Sea</b> for teens at four underserved high schools in the Los Angeles area to learn about ocean acidification and carbon footprints on boating expeditions     <b>\$9,995</b></p> <p><b>Cachuma Resource Conservation District</b> for watershed stewardship education for 5<sup>th</sup>- graders in Guadalupe, Santa Barbara County     <b>\$9,964</b></p> <p><b>UC Santa Barbara, Marine Science Institute</b> for water quality education and community restoration of the Ormond Beach wetlands in Ventura County     <b>\$28,000</b></p> <p><b>Return of the Natives</b> for families in Salinas to learn how litter gets washed down to Monterey Bay, clean a local creek, and install native plants on sand dunes     <b>\$20,500</b></p> <p><b>Edventure More</b> for elementary students at underserved Oakland public schools to learn about watersheds and their own connection with the ocean     <b>\$9,750</b></p>

## Appendix B

<p><b>2013/2014 (continued)</b></p>		<p><b>Small Schools for Equity</b> for biology class field trips and field supplies for high school students at San Francisco’s June Jordan School for Equity <span style="float: right;"><b>\$9,200</b></span></p> <p><b>California Exposition &amp; State Fair</b> for a large exhibition at the 2014 State Fair about the coast and ocean and ocean stewardship <span style="float: right;"><b>\$40,000</b></span></p> <p><b>Sierra Streams Institute</b> in Nevada City for a year-long environmental education program focusing on migrating salmon and the effects of climate change <span style="float: right;"><b>\$9,573</b></span></p> <p><b>Noyo Center for Science and Education</b> in Fort Bragg for marine mammal education and science activities featuring the reconstructed skeleton of a blue whale <span style="float: right;"><b>\$35,000</b></span></p> <p><b>Mattole Restoration Council</b> for a partnership of five organizations to provide coastal and watershed education in the remote Mattole Valley <span style="float: right;"><b>\$25,510</b></span></p> <p><b>Northcoast Environmental Center</b> for leading a number of public education programs in Humboldt County focused on clean beaches and watersheds <span style="float: right;"><b>\$30,320</b></span></p> <p><b>Rural Human Services</b> for students to raise salmon and steelhead trout in Del Norte County classrooms and then release them into the wild <span style="float: right;"><b>\$9,997</b></span></p> <p><b>Clean Water Fund</b> for educating the public about how most marine debris is disposable food and beverage containers and the benefits of reusable items <span style="float: right;"><b>\$17,850</b></span></p> <p><b>Ocean Communicators Alliance</b> for creating handbooks and providing training to help docents teach the public about California Marine Protected Areas <span style="float: right;"><b>\$9,708</b></span></p> <p><b>The Ocean Foundation</b> for the “Squids-4-Kids” program providing frozen giant squid for dissections (and related educational content) throughout California <span style="float: right;"><b>\$9,665</b></span></p>
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