



# THE CHANGING TIDE

Spring 2009

## How to Fuel Up the Clean and Green Way

*Fueling is a tricky practice for boaters. However, there are safe and clean fueling tips to help you make fueling a positive experience.*

### Preparing for fueling...

Keep safety in mind. Shut off motors and electronic equipment before fueling. Extinguish cigarettes and other sources of ignition.

Send passengers ashore. Close doors, hatches, ports, and entryways and turn off blowers.

### While fueling...

Prevent static spark and accidental spills. Keep fuel nozzle in contact with the fuel tube. Do not use a hands-free clip; hold nozzle when fueling.

Know the capacity of your tank and leave it at least 10% empty because fuel expands. Fill tank slowly to prevent overflow from the air vent. Avoid "topping off" the tank.

Don't rely on an automatic shut-off nozzle to prevent spills; they don't shut off in time.

Avoid switching anything on while fueling. This practice is dangerous and can increase the risk of sparking.

Hold an absorbent sheet under the nozzle to catch drips and dispose of fuel soaked absorbents as hazardous waste.

Applying soap to remove fuel sheen is **illegal** and harmful to the environment.

### After fueling...

Clean all drips with an oil absorbent and dispose of it as a hazardous waste. Use a sealable bag for proper disposal.

Open hatches, ports, and doors to ventilate.

In addition to practicing the previously mentioned, consider using pollution prevention products that help prevent fuel spills. We've listed a few products in this article for you. Check local marine supply stores for these items.



Photo: Boat US Foundation

Call 1-800-CLEANUP or visit [www.earth911.org](http://www.earth911.org) to find hazardous waste disposal locations.

Report all spills of oil or chemicals by calling (800) 424-8802 (National Response Center), (800) OILS911, and the marina office.

**Absorbents** are hydrophobic materials that absorb hydrocarbons but not water. Absorbents come in many shapes (sheets, pillows, donut, bibs). Cost ranges from \$1 to \$10.

**Fuel/Air Separators** are installed along the vent hose to prevent fuel from spilling at the vent by use of a small valve. Cost ranges from \$25 to \$100.

**Fuel Vent Collectors** temporarily attach (with suction cups) over the fuel vent to capture back pressure spills. Approximate cost is \$20.

**Fuel Whistles** make a whistling sound that stops when the tank is full. As the tank approaches full, the sound turns to a "warble." The approximate cost is \$32.

**Fuel Flow Meters** give you visual feedback on how much fuel you are burning at any given time, allowing you to make real time adjustments based on rate of acceleration, weather conditions, and currents. Flow meters measure the rate of fuel moving from the tank to the engine. These devices need calibration and may need to be professionally installed. Cost starts at around \$200.

A California Clean Boating Network Publication presented by the Santa Monica Bay Restoration Foundation, California Department of Boating and Waterways, California Coastal Commission, Save Our Shores, and the Keep the Delta Clean Program.

Funded by grants from the California Department of Boating and Waterways and California Integrated Waste Management Board



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## DESTINATION SERIES:

# Newport Beach

Article written by Jim Sinasek,  
City of Newport Beach

It all began on a bright summer morning with a blazing sun rising over Saddleback Mountain. My two buddies, Terry and Bill, the son of the Harbor Master at the time, and I were on our way to go water skiing in the “back bay” area of Newport Beach. Yes, we really used to do that. Those were the days...but that was then and this is now.

Newport Beach, incorporated as a city since 1906, boasts a year-round temperature average of about 75 degrees and a current population of more than 84,500. In the old days, at least when we were water skiing in the 1950's, its population approximated 25-30,000. Today, its boating population alone approaches 10,000. Since those days, Newport Beach has epitomized the beach and boating community.

Known for its sophisticated lifestyle, boaters come here from around the world. And why wouldn't they, when we are reminded of current and former residents such as Humphrey Bogart, Nicolas Cage, James Cagney, John Wayne, Tiger Woods, Roy Rogers, and William Boyd (Hopalong Cassidy).

Besides boasting a protected harbor, the Christmas boat parade (the oldest one in the nation at 100 years old) and spectacular beaches, we also have a world-class “Taste of Newport” food festival in September, fabulous sport



fishing, a world-renowned film festival, two ocean piers, the famous “Wedge,” (a body surfing location like no other), a Dory Fleet founded in 1891, and a ferry founded in 1919 by Joe Beek. The ferry ride traverses the bay between Balboa Island and the Balboa Peninsula.

Currently, we are reaching out to our boating community through our monthly television program “Heart of the Harbor” to educate boaters about current environmental issues related to the harbor. Also, in partnership with the California Department of Boating and Waterways, California Coastal Commission, Santa Monica Bay Restoration Foundation, Sacramento River Delta folks, and others, we are handing out free pollution prevention products such as bilge pillows and educational material about clean and green boating, proper boat maintenance, sewage tank disposal, used oil recycling, trash disposal, and more.

Our harbor is a “no discharge” harbor and we are proud that our City-owned boat marina is a “clean marina” accommodating 170 boat slips. We have 10 public pump-out locations in addition to the many private facilities.

So the next time I get in the cold morning water with a warm summer breeze to go water skiing or to see a spectacular sunset from a veranda at Crystal Cove it will be in Newport Beach, the town I call home. Would you care to join me?





The Santa Monica Bay Restoration Foundation (SMBRF) in cooperation with California Department of Boating and Waterways is pleased to announce a new pilot project for this upcoming boating season, *Honey Pot Day*.

To encourage the use of mobile pumpout services and as part of our pollution prevention program, SMBRF is offering complimentary pumpout service for Marina del Rey boaters. This project will increase awareness about sources of boat pollution, specifically on issues related to vessel sewage. We know boaters

## Honey Pot Day in Marina del Rey

*Got a Holding Tank? Get emptied for FREE!*

are busy people, so we want to make pumping out convenient and FREE!

### Is boat sewage really a problem?

The 1992 Clean Vessel Act identifies vessel sewage discharge as “a substantial contributor to localized degradation of water quality in the U.S.” There are about 965,000 registered boats in California and 13 million nationwide. Consequently, the illegal discharge of boater-generated sewage can make a big difference in the water quality. Some effects of sewage discharge include: the spread of diseases, unsightly floatables, contaminated shellfish beds, lower oxygen levels in the water.

### How Honey Pot Day Works

From June to September 2009, boaters can sign up for a free and convenient mobile pumpout service. In order to receive this complimentary service, boaters must register in advance and be present during the service, so

SMBRF staff can provide participants with a Clean Boating Kit.

### Don't Wait! Register Now!

Registration for Honey Pot Day begins May 10, 2009. Call or email now to reserve a complimentary pumpout service for your boat! Services for June will take place on the 20th and 28th. Future dates will be determined. If scheduling is an issue, call us and we can work something out!

**To register or for more information, contact Unica Luna at 310.216.9824 / [uluna@santamonicabay.org](mailto:uluna@santamonicabay.org).**



Photo: Vivian Matuk

2009 Boater Kit

## Calendar of Events

*SMBRF's success in reaching so many boaters is wholly dependent on our team of volunteers. Thank you so much for your tremendous efforts. Here's a list of more outreach opportunities for educating the boating community about environmentally conscientious boating. These events are perfect for seasoned volunteers and new Dockwalkers too. If you are planning to attend the following events, visit us to receive your free oil absorbent pad!*

### Saturday, May 30th:

#### Pancake Breakfast

\$4 donation towards Life Jacket Loaner Program Hosted by Alamitos Sail & Power Squadron Sunset

**Where:** Aquatic Marina/Park & Public Launch Ramp; 2901 Edinger Ave. (end of Edinger), Huntington Beach

**Time:** 8 am – 11 am

### Sunday, May 31st:

#### Sea Fair and Safety Day

U.S. Coast Guard will perform search and rescue demonstration with helicopter and rescue swimmer hoists and in-water man overboard recovery training using a power and sailboat. There will be live music, dunking booth, kid-friendly fun, and great food. Free for the public!

**Where:** King Harbor Yacht Club  
280 Yacht Club Way, Redondo Beach

**Time:** 1 pm - 5 pm

### Saturday, June 6th:

#### Adopt a Fuel Dock

Volunteers will outreach to boaters at the fuel dock about the new Bilge Pad Exchange Program in Long Beach and environmentally sound boating.

**Where:** Alamitos Bay Marine  
227 Marina Dr., Long Beach

**Time:** 9 am - 2 pm

**To register or for more information, contact Unica Luna at (310)216-9824 / [uluna@santamonicabay.org](mailto:uluna@santamonicabay.org).**



# News from the Central Coast Chapter



## Destination Series - Santa Cruz Harbor

### Sailboat racing, beach volleyball and paddle boarding all in one place!

Have you ever wanted to try standing on a surf board with a paddle? What about joining a rowing or outrigger canoe club? Santa Cruz Harbor offers a number of ways to get out on the water and enjoy the Monterey Bay National Marine Sanctuary.

Established in 1964, the Santa Cruz Harbor quickly became a popular destination. So much so that they had to add another 455 slips in 1973, making the total slips approximately 1,000. The harbor is surrounded by two beautiful beaches. Twin Lakes beach hosts beach volleyball classes weekly and the Santa Cruz Beach Boardwalk is within walking distance.

Human powered vessels come in many shapes and sizes in the Santa Cruz Harbor. The local shops around the harbor host stand-up paddle board classes, an outrigger canoe club, surfing instruction, kayak tours and rowing classes. The outrigger canoe club even won first prize in the holiday boat show in December for their flame throwing outrigger canoes!



Santa Cruz Outrigger Canoe Club

Santa Cruz harbor is ideal for sailing since the wind blows about 25 knots just outside the harbor during the summer. Every Wednesday night from April to October you can see around 200 sailboats out on the Monterey Bay for the Santa Cruz sailboat races. There is no winner, just fun times and free rides. Join one of the sailboats for this fun tradition or watch from one of the great surrounding restaurants.



Twin Lakes Beach at the Santa Cruz Harbor

Most importantly, the Santa Cruz Harbor is a leader in environmentally friendly practices and facilities. As a certified Clean Marina, the harbor works to lessen pollution in many different ways. Their 4 used oil recycling stations, bilge pumpout system and fishing line recycling station offer boaters easy ways to keep the waters clean and free of debris. There is no boat soap allowed in the harbor, they instead encourage people to use pressure washers to clean their boats. They are also one of the only harbors to own and run their dredging operations.

Santa Cruz Harbor is a great place to visit or to keep your boat, there is always something to do and the scenery is hard to beat.

# Santa Cruz, Monterey, San Benito, San Luis Obispo & San Mateo Counties



## The Central Coast Network of Marine Protected Areas (MPAs)

### Our Underwater State Parks!

The Central Coast MPAs were established in September of 2007 as part of the Marine Life Protection Act of 1999. This picture of the 29 MPAs include state marine reserves in red and state marine conservation areas in blue. State marine reserves are the areas that are provided the most protection and regulate removal of most of the marine life. State conservation areas allow certain types of take.

A common myth about MPAs is that no recreational activities are allowed in these areas. This is untrue, these areas are open to kayaking, scuba diving and surfing and they are a great place to see an array of unique Central Coast habitats and marine wildlife.

With the depleted fish stocks and unique fragile ocean habitat along the Central Coast, the Department of Fish and Game established these areas to protect the marine life from disappearing. For more information on MPAs visit the Save Our Shores website at [www.saveourshores.org](http://www.saveourshores.org) or the Department of Fish and Game website at [www.dfg.ca.gov/mlpa/](http://www.dfg.ca.gov/mlpa/).

*Map courtesy of the Ocean Conservancy*



## Reviving the Central Coast California Clean Boating Network (CCBN)



Save Our Shores, California Department of Boating and Waterways and California Coastal Commission Boating Clean and Green Campaign, and the California Integrated Waste Management Board are pleased to announce the new Central Coast CCBN. The Central Coast is an area in which harbor programs are proliferating and a forum for networking, peer review, and information exchange is highly needed.

The purpose of the CCBN is to improve communication and coordination between harbor stakeholders and boating pollution educators in California. It is a great opportunity to meet with the Central Coast harbors and work together to spread the word about pollution prevention in our coastal communities.

We are planning a meeting for the summer, please contact Lauren at Save Our Shores if you are interested in attending, call 831-462-5660 Ext. 6. See you there!

*Funded by a grant from the California Integrated Waste Management Board.*



## Big Break Marina: A Crown Jewel in Paradise

Photos and article by Dave Biron

The city of Oakley began as a Santa Fe Railroad depot in 1897. Known for rich and bountiful agriculture, this California Delta area started to grow. With the San Joaquin River along the shoreline, goods and services flowed by river and rail. Then in 1929 the levees on Dutch Slough failed and flooded an area which became known as "Big Break". Big Break was never reclaimed since the river flow continued to weaken the levees. Native American artifacts were later discovered in the Big Break area, and today it is a very peaceful, tranquil area.

In 1956, Big Break Marina was developed for the growing recreational boating population on the California Delta and constructed from prime San Joaquin River waterfront land that required no levees to protect the surrounding area. Located in one of the best boating and fishing areas in the country, Big Break Marina offers bass fishing at its best.

To help keep this prime Delta boating and fishing area clean, natural and healthy, Big Break Marina offers recycling of glass, metal, plastic and paper, used oil, and oil absorbents. The marina is a proud and active participant in the Keep the Delta Clean Program.

Big Break Marina offers covered and uncovered boat slips, a large 2-lane launch ramp, and a store with bait, fishing tackle, marine supplies, and cold drinks. The marina also has RV storage, and a RV campground. Coconuts Tiki Bar and Grill is scheduled to open in 2009. Marine repair is available as well.

The marina has many large event areas, and hosts many fun family-oriented events. The famous tropical parties with live music are always a hit, professional bass tournaments just keep getting better, the boat shows are always fun, and the new BB-WPT Poker Run is scheduled for 2009.

With Big Break Marina located near downtown Oakley, boaters will find this premium marina an attractive gateway to the new City of Oakley proposed outdoor sports shopping center and the new East Bay Regional Park Delta Science Center. Big Break Marina was voted "Best Marina" in the 2008 Oakley Press Reader's Choice Awards.

Big Break Marina  
100 Big Break Road  
Oakley, CA 94561  
(925) 679-0900  
[www.big-break-marina.com](http://www.big-break-marina.com)

# News from the Delta Chapter

The Delta Chapter is implemented with the support of: Contra Costa, Sacramento, San Joaquin, Solano, and Yolo Counties; City of Stockton; California Department of Boating and Waterways and California Coastal Commission

## Keep the Delta Clean Program Update

Due to California's ongoing budget crisis, the Keep the Delta Clean Program's (KDC) funding from the State of California has been temporarily frozen. However, we are confident that the situation will improve soon and that the KDC Program will be able to continue as before.

Even with the current funding difficulties, the KDC Program is working hard to educate boaters in the Delta about clean and safe boating. Staff, program partners, and volunteers recently worked at the International Sportsmen's Exposition and the Sacramento Boat Show, both at Cal Expo in Sacramento. Between these two events over 1,400 boater kits were distributed.

All pollution prevention infrastructure, aside from two oil recycling sheds, have been placed. For a more detailed breakdown of infrastructure installed through the KDC Program, as well as other information about the program, visit our website: [KeepTheDeltaClean.com](http://KeepTheDeltaClean.com)



Volunteers George and Sarah Mcelvain, MST USCG Lowe and Program Staff at the International Sportsmen's Exposition (January, 2009)

## Mt. Diablo Recycling: State of the Art Recycling in Pittsburg

Article by Keith Nance

Mt. Diablo Recycling is a state of the art 90,000 square ft. recycling processing facility located in Pittsburg, CA. It houses a 300 ft. single stream machine that is able to process 20 tons of curbside recycling materials per hour. ("Single stream" means that the different materials do not have to be separated prior to the machine receiving them.)

Every jurisdiction in California is required to divert at least 50% of its waste by weight from going to a landfill. If a jurisdiction fails to meet this requirement, it could face up to \$10,000 per day in fines. Facilities such as Mt. Diablo Recycling not only help jurisdictions meet their AB939 diversion requirement, they also create local jobs which contribute to the overall health of the local economy as well as take traffic off the freeways by providing local employment.

The new equipment allows us to collect and process materials which formerly would have ended up at a landfill. #1- #7 plastic food containers, film plastics and plastic bags, milk and juice containers, as well as rigid plastics such as toys and buckets are now processed, baled and shipped to market.

We process cardboard, glass (whole bottles & broken), plastic bottles, aluminum and tin cans, newspaper, shredded paper and mixed paper.

An important feature of the new facility is the large education/observation center which allows educational opportunities for students and civic groups to learn more about recycling and other environmental issues. There is a large flat screen monitor which continuously displays different shots of the various pieces of equipment in operation so that visitors can take a complete tour from the observation center without having to put on hardhats, orange vests and earplugs.

Mt Diablo Recycling also includes a CRV Buy Back Center which provides an opportunity for the general public to redeem their California Redemption Material as well as cardboard and newspaper.

Mt. Diablo Recycling is located on the same property as Contra Costa Waste Recycling Center and Transfer Station, which is Contra Costa County's number one processor of green waste and wood waste. In January we will complete our new Construction and Demolition processing line which will make this facility one of the most user friendly, one stop recycling facilities in California.

# News from the Northern Chapter



Photo Source: Hornblower Cruises and Events

## Meet the Nation's First Hybrid Ferry

“With this vessel we hope to become a model of environmental innovation for the city of San Francisco and the State of California,” said Terry MacRae, CEO of Alcatraz Cruises and Hornblower Cruises & Events.

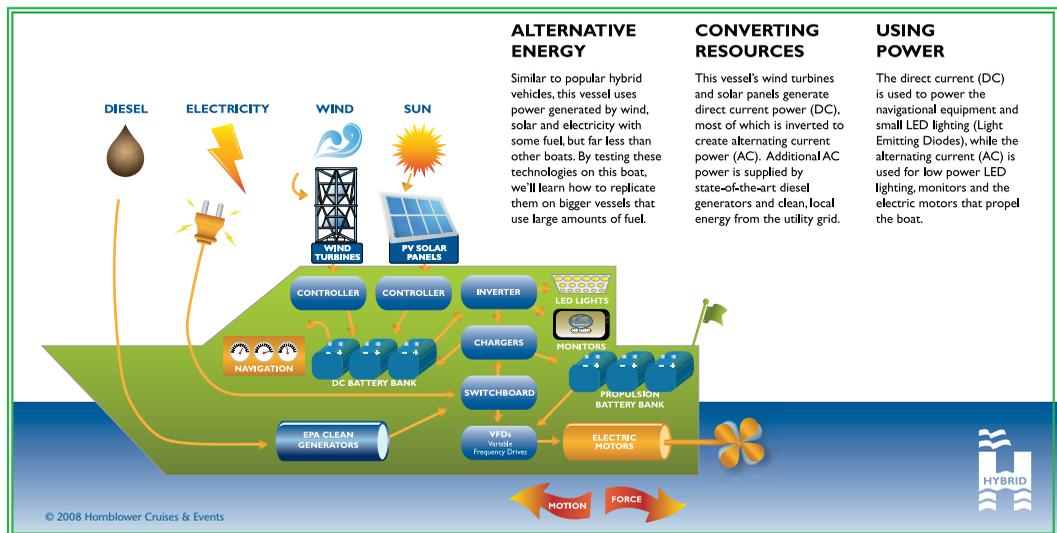
Other environmentally friendly features include carpeting made of post consumer recycled materials which meet the US Green Building Council LEED criteria for recycled content, signage printed on Plyboo, (a composite material made from sustainable sources and containing no harmful chemicals), countertops made from pieces of recycled vodka bottles and LED lighting which requires a fraction of the energy of standard bulbs and provide an equal or greater amount of illumination.

Through this unique cruise experience, the Hornblower Hybrid passenger obtains first-hand knowledge of solar and wind power and other hybrid technological advancements. Signage, interactive displays and an educated staff provide opportunities for the guest to learn more about the environment while having a great time on the bay.

**The Hornblower Hybrid** is a 64-foot long catamaran powered by solar, wind and diesel sources. Two 10-foot tall wind turbines and a photovoltaic solar array generate power which is converted and stored in battery banks which then power the navigation tools, lighting and other electronics on board the vessel. Excess power is stored in the main propulsion battery banks.

In addition to the wind turbines and solar panels, the Hornblower Hybrid also has Tier 2 marine diesel engines. (Tier 2 is an EPA designation relating to emission control standards.) These cleaner, fuel-efficient engines reduce the amount of diesel fuel used, emissions and overall carbon footprint. The customized drive system allows the captain to monitor the energy needs of the vessel and select the most efficient power sources. For example, when the boat is idle at the dock the engines shut off and the motors run on energy stored in the battery banks.

The nation's first hybrid ferry can now be chartered from San Francisco, Marin and East Bay shores. For more information on chartering the Hornblower Hybrid contact Jen Oberti, Hornblower Account Executive, (415) 983-8291 or via email- [joberti@hornblower.com](mailto:joberti@hornblower.com).



This diagram illustrates how the energy conversion takes place between the 10-foot-tall wind turbines, the solar array on the top deck, and the Tier 2 marine diesel generators.

# News from the Northern Chapter

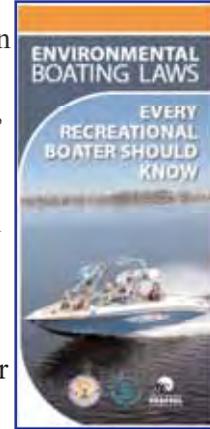


## New Brochure Available: Environmental Boating Laws Every Recreational Boater Should Know

In an effort to promote clean boating habits among recreational boaters, the California Department of Boating and Waterways and the California Coastal Commission's Boating Clean and Green Program produced a brochure titled Environmental Boating Laws.

"Every boater should know the boating environmental laws to ensure that clean boating is part of their experience while enjoying California's waterways", said the Department of Boating and Waterways Director Raynor Tsuneyoshi. For example, it is against federal and state laws to discharge untreated sewage waste anywhere within the three mile US territorial limit (lakes, rivers, reservoirs or coastal water

within three mile of shore). Now available, the brochure contains information on environmental boating laws for fuel and oil, sewage, dispersants, hazardous waste, plastic and marine debris. This new educational resource can be kept in boats or displayed at marina offices, informational kiosks, bulletin boards, harbor or yacht club offices, and marine supply stores. It can also be included in newsletters, monthly billing insert, lease provisions, or marina environmental policies.



To place an order, contact Vivian Matuk at (415) 904-6905 [vmatuk@coastal.ca.gov](mailto:vmatuk@coastal.ca.gov).

### Mark your Calendars with These Great Upcoming Events!

- **June 9. Free Aquatic Invasive Species Workshop San Diego Yacht Club** (Spinnaker Room 1011 Anchorage Ln San Diego, CA 92106) 8:45 am-2:40 pm.
- **June 16. Free Aquatic Invasive Species Workshop Santa Barbara Chase Palm Park Center** (236 E Cabrillo Blvd, Santa Barbara) 8:45 am-2:40 pm.

To register contact Vivian Matuk at (415) 904-6905 or [vmatuk@coastal.ca.gov](mailto:vmatuk@coastal.ca.gov)

### Getting Ready for Spring Cleaning?

The products you purchase to clean and maintain your boat can have an adverse effect on aquatic life, water quality and human health. Many of these products contain chemicals that are poisonous, corrosive, flammable and/or chemically reactive. However, safe alternatives are available. You can minimize environmental impacts by using some of the following alternatives to toxic products:

#### General & Surface Cleaners:

- ‡ Combine lemon juice with borax paste.
- ‡ Mix 1 quart of hot water, 1 tsp. vegetable oil-based soap/detergent, 1 tsp. borax and 2 tbsp. vinegar. Vinegar is used as a mild acid to cut grease, borax is used as a water softener, especially good with hard water, to prevent soapy deposits.
- ‡ Mix 1 cup of vinegar in 1 quart of warm water.

#### Degreasers:

- ‡ Make a paste of lemon juice and borax.
- ‡ Choose water-based products or citrus-based degreasers. Avoid products that contain methylene chloride and gasoline

**Window Cleaner:** ‡ Dilute one cup of white vinegar with 1qt. water.

**Mildew Remover:** ‡ Scrub with a vinegar and salt paste (equal parts) using a nylon scouring pad.

**Head and Showers:** ‡ Clean frequently with a mix of baking soda and water; brush thoroughly. ‡ Sprinkle baking soda around the rim of the toilet. To clean and deodorize the head, try a mix of 1/2 cup of borax per 1 gallon of water.

For a more comprehensive list of Alternative to Toxic Products visit <http://www.coastal.ca.gov/ccbn/lesstoxic.html>  
If you want more information on a product's contents, request from the manufacturer the product Material Safety Data Sheet (MSDS). Avoid products with ingredients known to cause cancer or reproductive harm as listed in California's Proposition 65: [http://oehha.ca.gov/prop65/prop65\\_list/files/P65single121908.pdf](http://oehha.ca.gov/prop65/prop65_list/files/P65single121908.pdf)

## Happy Birthday to the Clean Marinas California Program!

Article written by Tim Leathers, General Chairman of CMC

On behalf of the many marina owners, operators, governmental agencies, associations and general stewards of the oceans and lakes of California, the Clean Marinas California program celebrated its 5th Birthday by recertifying four marinas in March. Our industry believes that it is everyone's responsibility to respect the marine environment in our State. This event marks a milestone in the program, highlighting the industry's ability to improve educational awareness through the use of Best Management Practices (BMP's) in all aspects of boating.

The real back bone of our program though is the involvement of the many seasoned volunteers mentoring others including bringing those out



City of Berkeley Marina / Photo: CMC

of the shadows, that otherwise would remain there, and agree to work toward certification. This unique program is support by the 2 largest marina associations as well as a small number of volunteer leaders donating their time to serve as directors and

officers of our program. Quarterly meetings are held throughout the state in making it easier for all to attend at least one meeting per year. Our next meeting is May 20, 2009 at 10 am at the Department of Boating and Waterways. The lively agenda will include normal business items, mentoring updates, and suggestions to Department personnel on how the educational materials can be streamlined and more readily available to boaters. Drop by and give us your two cents on what works for you. Seating is limited so contact Mariann Timms at [timms@marina.org](mailto:timms@marina.org) or (209) 334.0661.

To find out more about the program visit [www.cleanmarinascalifornia.org](http://www.cleanmarinascalifornia.org) or contact Mariann Timms.



santa monica bay restoration foundation

1 lmu drive, north hall  
pereira annex ms: 8160  
los angeles, ca 90045

A SMBRF, DBW, CCC, SOS, and Keep the Delta Clean Program Publication for the California Clean Boating Network

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