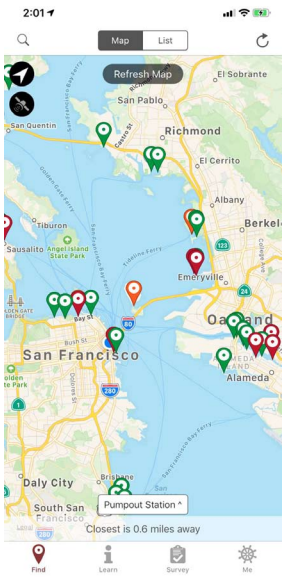
the CHANGING TIDE

WINTER 2019

Pumpout Nav App Updates

Pumpout Nav, the multi-award winning free mobile app that allows boaters to find the nearest sewage pumpout, has been updated with more great new features. The app is a powerful tool that allows boaters to find operational pumpouts and empowers users to report problems they may encounter while using a sewage pumpout. New features include the ability to display floating restrooms and portable toilet dump stations. Boaters can also create a list of favorite sewage disposal units, log their pumpouts and choose a boating region.



Screenshot of updated Pumpout Nav app

Photo: San Francisco Estuary Partnership/ Division of Boating and Waterways

The app was originally released in 2017 and is one component of California's Clean Vessel Act (CVA) Education and Outreach Program. With Pumpout Nav, boaters are no longer confronted with the challenge of arriving at an out-of-service sewage disposal facility. Other state CVA programs using the app include Oregon and the Lake Champlain area of Vermont, Quebec and New York. The app was designed by the San Francisco Estuary Partnership in collaboration with Southern California partner The Bay Foundation. Funding for Pumpout Nav was provided by a Clean Vessel Act grant and administered by the California State Parks Division of Boating and Waterways through the Sport Fish Restoration and Boating Trust Fund. More information can be found here.

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Partner DOCKWALKERS Rock!

"Life's most persistent and urgent question is, 'What are you doing for others?'"

— *Martin Luther King Jr.*

The California State Parks Division of Boating and Waterways and the California Coastal Commission's Boating Clean and Green Program, and The Bay Foundation would like to express our deepest gratitude to all Dockwalker partners and organizations that supported the Dockwalker program this year. In 2019, the program partners worked together with the U.S. Coast Guard Auxiliary, U.S. Power Squadrons, Save Our Shores, Lake Berryessa Partnership, Lake County and many more organizations.

Robert Hamming and Randy Podell Robert and Randy combined their USCG Auxiliary safety duties with face-to-face boater education (Dockwalking) in Ventura County.

Photo: USCG Auxiliary

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A California Clean Boating Network Publication presented by The Bay Foundation, California State Parks Division of Boating And Waterways, California Coastal Commission, and the San Francisco Estuary Partnership. This publication is partially funded by the Division of Boating and Waterways Clean Vessel Education Program and the Federal Clean Vessel Grant Act Program.

Destination Series:
SANTA BARBARA HARBOR

Santa Barbara Harbor is a Southern California boating gem with its gorgeous Santa Ynez Mountain backdrop, wide-ranging recreational opportunities and commitment to environmental responsibility. Built in 1926, this 1,139-slip harbor has become a popular destination for recreational boaters, anglers and tourists alike. The harbor, wharf and downtown State Street provide something for everyone: whale watching, fine dining, wine tasting, kayaking, historical sites and much more.

Paddleboarding in Santa Barbara Harbor

Photo: OC Gonzalez on Unsplash

Be sure to take a stroll along Stearns Wharf; built in 1872, it remains California's oldest functioning wooden wharf. You'll enjoy spectacular ocean and mountain views and discover the Sea Center, a marine education facility that offers close encounters with marine animals from the Santa Barbara Channel.

Environmental stewardship is foundational to Santa Barbara Harbor. Since its adoption of the Clean Marina Program in 2002, the Harbor offers a number of facilities to keep the waters clean, including five sewage pumpouts, two dump stations, a bilge pumpout, oil recycling, oil absorbent pad distribution and collection, marine battery collection, 40 debris nets and fishing line recycling. A unique component to the Clean Marina Program is its annual Harbor Operation Clean Sweep event. Initiated in 2006, harbor staff and volunteers began recovering marine debris from the harbor's seafloor. The findings are remarkable––from dock carts and plastic tarps to oddities like barbecues and microwaves. To date, more than 19 tons of debris have been recovered!

Consider visiting Santa Barbara Harbor for your next adventure. For more information on Santa Barbara Harbor, visit www.santabarbaraca.gov.

Coastal Connections

The Bay Foundation (TBF) hosted its fifth-annual Coastal Connections fundraiser on October 17. The family-friendly event at Pacific Park on the Santa Monica Pier included refreshing drinks, delicious taco buffet, live music and free access to Pacific Park rides and games.

TBF partner and Marina Harbor Anchorage Marina Manager Bryan Plante attended with his family. Bryan is a coastal connector dedicated to protecting the environment by sharing clean boating resources as a certified Dockwalker. Marina Harbor Anchorage offers boaters a plethora of amenities to keep our waterways clean, including a pumpout station and a marine trash collection device.

In an effort to produce a zero-waste event, all foodware was either compostable or reusable and beverages were served in recyclable cans and reusable cups.

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Marina Harbor Anchorage Marina Manager Bryan Plante & family

Photo: The Bay Foundation

Coastal Connections

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Be part of the solution!

Here are some ways you can reduce waste:

- Support single-use plastic bans in your community.
- Get creative! Wrap gifts with newspaper, scarves or any reusable or reused item.
- Bring your own (BYO):
  - Insulated cup with lid for hot and cold beverages.
  - Food storage containers to restaurants for your leftovers.
  - Containers and reusable bags to grocery stores for holding produce and bulk bin items and for carrying groceries.
  - Utensils for dining in and takeout.

TIP: After you BYO, clean and store items in your go-to bag/backpack or car so you won't forget them!

BYO reusable items and say no to disposables!

Photo: The Bay Foundation

Save the Waters You Love

Do you love recreating in waters that are thriving with healthy aquatic life and free of disease-spreading pollutants? There are Clean Vessel Act (CVA) grant opportunities for you to protect our aquatic environments!

Whether you are a harbormaster, marina manager or other recreational water facility coordinator, there are options to keep the waters you love clean and free of sewage pollution. The following funding opportunities are available through the CVA grant program:

FLOATING RESTROOMS funds are used to develop, construct, deploy, operate and maintain a floating restroom. Funds are available to government entities that operate lakes and reservoirs open to the public.

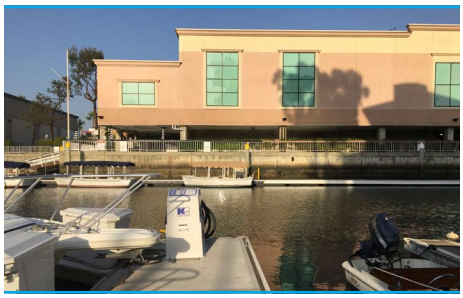
PUMPOUT & DUMP STATION INSTALLATION can be done for a fraction of the cost. The unit must be open to the public and the grant will reimburse recipients in the public and private sectors for up to 75% of the installation cost.

PUMPOUT & DUMP STATION OPERATION AND MAINTENANCE (O&M), like the installation grant, funding is available to reimburse up to 75% of eligible costs of parts and labor to maintain an existing facility. CVA O&M grant funding is available to public and private facility operators, and the unit must be available for public use.

Funding comes through the Sport Fish Restoration and Boating Trust Fund. For detailed information on CVA grant opportunities, visit the Division of Boating and Waterways' website. Engage with your local CVA education and outreach grantees (listed at the bottom of the back cover) on additional ways you can help reduce boat-based pollution.

CVA SoCal Highlights!

By mid-2019, two new CVA-funded sewage pumpout units were installed at Sun Harbor Marina in San Diego. Sun Harbor's new units have been well-received and well-used by boaters in San Diego beyond.



Last year, two new units were installed at Marina Pacifica in Long Beach, and are in great working condition! Units are located at Slip 39, Key 15 and Slip 165, Key 1.

Photos: The Bay Foundation

Historic Cliff's Marina

Cliff's Marina

Photo: Marinas.com

Traveling down the prolific Sacramento River will take a boater past several marinas with rich histories all their own. One of the most beloved and historic is Cliff's Marina, located on California State Route 160 near Freeport, California––a tiny town only 7.5 miles south of downtown Sacramento. Freeport was so named in the 1860s due to its creation as a new tax-free port along the route of the Freeport Railroad Company that would bypass Sacramento connecting with the Sacramento Valley Railroad at a midway point between Sacramento and Folsom. This new town then went on to flourish for a few years with peak populations reaching 300 to 400.

Spanning many decades of ownership and enjoyment, Cliff's Marina has been a complement to the well-established history along this part of the Sacramento Delta. Now known for its exceptional crayfish (crawdad) hauls, people travel from all over the region to bring home pounds of these tasty fresh-caught crustaceans. The prime crawdad-fishing season lasts from June to October, and the staff at Cliff's Marina is happy to take orders by phone for boaters and drivers to pick up, or eat right on-site.

Aside from providing a delicious meal, this full-service public marina offers boat fuel fill-up, a sewage pumpout, both uncovered and covered berths for about 60 boaters, and friendly and knowledgeable staff operating a store selling bait and tackle equipment alongside drinks and snacks. This boater favorite has been a consistent stop for many and will continue to do so under its new ownership.

Cliff's Marina is located at:
8651 River Road,
Sacramento, CA 95832,
and can be reached at (916) 665-1611.

Aquatic Invasive Plant Management
in the Sacramento-San Joaquin River Delta

Author: Jeffrey Caudill, California State Parks Division of Boating and Waterways

Aquatic invasive plants in the Sacramento-San Joaquin River Delta can create adverse impacts on the environment, agriculture, public health and water quality, as well as safety hazards for boaters.

While adhering to strict guidelines from local, state and federal entities to ensure the Delta's natural resources and water quality are protected, the California State Parks Division of Boating and Waterways' (DBW's) Aquatic Invasive Plant Control Program (AIPCP) targets nine different aquatic invasive plants in the Delta for integrated pest management control utilizing chemical, physical, mechanical and biocontrol methods. DBW takes very seriously the responsibility to control aquatic invasive plants but we don't do it alone. DBW works closely with local, state and federal partners and the public to control aquatic invasive plants through its AIPCP.

In 2018 and 2019, DBW obtained authorization from the National Marine Fisheries Service and U.S. Fish and Wildlife Service respectively to utilize additional control tools. These tools include additional herbicides, physical barriers and biocontrol agents to target water hyacinth. DBW is also utilizing Demonstration Investigation Zones (DIZ) to test out new control methods through adaptive management.

Treated areas are regularly monitored to ensure herbicide levels do not exceed allowable limits. A key element of DBW's monitoring program is ongoing collaboration with regulatory entities and reviewing new information to inform and improve control programs. Their use is carefully controlled and has been reviewed and approved by the U.S. Fish and Wildlife Service, National Marine Fisheries Service, California Department of Pesticide Regulation, the State Water Resources Control Board and County Agricultural Commissioners' offices. Additionally, all herbicides are registered for aquatic use with the U.S. Environmental Protection Agency and California Department of Pesticide Regulation.

Aquatic invasive plant species in the Sacramento Delta

Photo: California State Parks Division of Boating and Waterways

The Submersed Aquatic Vegetation (SAV) team targeted 2,400 acres for this year focused around marinas for accessibility. The Floating Aquatic Vegetation (FAV) team has treated around 2,070 acres. Additionally, DBW is collaborating with the California Department of Water Resources by controlling aquatic invasive weeds in areas targeted for tidal wetland restoration. DBW conducts annual required trainings with applicator staff to ensure that they are well versed in the herbicides being used, as well as safety protocols and methods for minimizing impacts on the environment.

DBW has found successes with the DIZ process in testing new herbicides such as endothall and diquat on SAV and with reviewing biocontrol agents in release sites for water hyacinth. Collaborating with the National Aeronautics and Space Administration to utilize satellite imagery and working with hydroacoustic mapping help DBW better monitor the Delta for efficacy of treatments and locations of potential infestations. Additionally, DBW published a manuscript titled "Management of a Freshwater Estuarine Embayment Restores a Native Plant Community," discussing the positive trends seen in Frank's Tract over a long period of control by the program (Caudill et al., 2019).

To learn more about DBW's aquatic invasive species programs, click here, and to receive weekly weed-control treatment notifications, click here.

Destination Series: VISIT OAKLAND MARINAS

Author: Brock de Lappe, Oakland Marinas

Oakland Marinas (Alameda County) consists of three marinas––Jack London Square to the west, Embarcadero Cove and Union Point Basin to the east––and five basins in the Oakland Estuary with more than 500 boat slips. It is owned and operated by Almar Marinas.

Jack London

Photo: Oakland Marinas

The location of these marinas at the waterfront includes shops, restaurants, Sunday farmers market, and local attractions, such as Heinold's First and Last Chance Saloon, once the favorite haunt of the author Jack London. In addition, nearby are the Oakland Museum, the Oakland Zoo, a park at Union Point Basin, and Preservation Park, with its dozens of restored Victorian homes. The marina is within walking distance of an Amtrak train station and the San Francisco Bay ferry system.

Civicorp Dockwalker at the Jack London fuel dock conducting face-to -face education and distributing the California Boater Kit

Oakland Marinas offer oil absorbent exchange services, and the Jack London Marina also operates the only fuel dock on the Oakland Estuary, servicing a variety of government agencies (U.S. Coast Guard, Oakland and Alameda Police and Fire Departments, Caltrans, and Alameda County Sheriff) in addition to recreational boaters. The fuel dock office is open seven days a week from 8:30 a.m. to 4:30 p.m., and offers a pumpout 24 hours a day, with plans for an upgrade in the coming year.

The marinas and its staff are also trained partner Dockwalkers who share clean boating practices and provide California Boater kits to their tenants. During the 2019 October Fleet Week, the marinas partnered with volunteers from Civicorps, also trained as Dockwalkers, who distributed the California Boater kits, which included oil absorbent pillows and sheets and clean boating information to visiting boaters.

For more information, visit https://oaklandmarinas.com/.

Tens of Thousands of Volunteers Participated in the 35th Annual California Coastal Cleanup Day

Our state celebrated the 35th anniversary of California Coastal Cleanup Day (CCD) on September 21. The boating community demonstrated its interest and commitment to keeping coasts and waterways clean in both 2019's state and international effort.

Active Volunteers in Newport Bay
Photo: Newport SeaBase

Sixty-nine boating facilities and boating groups participated in the event, with 2,152 volunteers who cleaned 142 miles and collected 23,864 pounds of trash and recyclables on land and from 265 vessels (kayaks, canoes, and dinghies). Twenty-nine of the volunteers brought their own reusable cleanup supplies.

Statewide and with 90% of the cleanup sites reporting, the count stands at 68,428 volunteers. Those volunteers picked up 757,117 pounds of trash and an additional 70,619 pounds of recyclable materials, for a total of 827,736 pounds or 414 tons.

The California Coastal Commission and the California State Parks Division of Boating and Waterways would like to thank the boating facilities, boating groups, coordinators, and partners for their participation. Click here to learn which boating facilities participated in this year's California Coastal Cleanup Day.

Active Volunteers at the Jack London Aquatic Center
Photo: Vivian Matuk

If you aren't already part of this effort, we invite you to join us for the 36th Annual California Coastal Cleanup Day on September 19, 2020. Even though the event is called "Coastal Cleanup Day," it takes place across the state, including beaches, shorelines and inland waterways up and down the coast—from Oregon to the Mexico border and as far inland as Lake Tahoe. Remember, this is the state's largest annual volunteer event, and it is also part of the International Coastal Cleanup organized by the Ocean Conservancy.

For information on how to participate, visit www.coastal.ca.gov/publiced/ccd/boating.html or contact the Boating Clean and Green Program Manager Vivian Matuk at (415) 904-6905. We hope your boating facility and/or boating group can be part of this worthwhile event.

San Francisco Bay Microplastic Study. A new study, conducted by the San Francisco Estuary Institute and 5 Gyres Institute, provides the first comprehensive look at the amount of microplastic pollution (plastic pollution smaller than 5 mm) that enters San Francisco Bay every year. The amount found was a staggering 7 trillion pieces of microplastic emitted to San Francisco Bay every single year, through both wastewater and stormwater. The new study helps to highlight a growing area of concern as well as research in the marine debris field, and will help to galvanize actions around microplastics in the coming years. Check out the new study here.

Pumpout Nav App Updates

Continued from cover

The San Francisco Estuary Partnership, in collaboration with the California State Parks Division of Boating and Waterways and The Bay Foundation, were awarded an Outstanding Service Award by the States Organization for Boating Access. This organization's mission is to encourage, promote and support federal and state programs that provide safe, high-quality, and environmentally sound public recreational boating access to the waterways of the United States and its' territories.

Accepting the Outstanding Service Award at the States Organization for Boating Access conference

Photo: Lynda Richardson, Virginia Department of Game and Inland Fisheries

The award is presented annually to individuals or agencies that have made a contribution to provide improved access for boaters and anglers to the nation's public waters. This year's award was presented in September at the 33rd Annual Boating Access Education and Training Symposium in Portsmouth, Virginia. More information can be found at www.sobaus.org.

Partner DOCKWALKERS Rock!

Continued from cover

Dockwalkers are partners and environmental educators, trained to provide face-to-face boater education about clean boating practices and distribute California boater kits. They perform these duties while visiting boating facilities, boat launch ramps, boat shows and events, as well as through presentations at yacht clubs or by simply talking to boaters when the opportunity arises. Boaters receive a boater kit after completing a boater survey and signing a pledge to adopt clean boating practices. The questionnaire helps to improve future education efforts in the Dockwalker Program. In addition, the questionnaire helps us to identify where boaters live who have received clean boating information from partner Dockwalkers and staff. Dockwalkers make a difference!

More than 150 new volunteers participated in the 13 trainings conducted in 2019. The volunteers distributed 7,800 boater kits and donated more than 1,800 hours.

Working together with these dedicated partners made this year another success.

Click here to find out the Dockwalkers who administered and returned the highest number of surveys, and join the ranks in the Dockwalker Hall of Fame.

Thanks to our partners, the following awards were provided to the Hall of Fame recipients:

- Trader Joe's products
- Gift certificates to:
  - West Marine
  - Starbucks
  - Lemonade
  - Chipotle Mexican Grill
- California State Parks annual passes
- Life jackets

To learn more about the Dockwalker program and upcoming trainings, or to schedule a training class, visit www.BoatingCleanandGreen.com or contact Vivian Matuk at (415) 904-6905 or vmatuk@coastal.ca.gov. Find out what other Dockwalkers are saying about the program by viewing these videos.

Thank you to the Dockwalkers for all you do in providing clean boating education and improving the health of our waters.

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