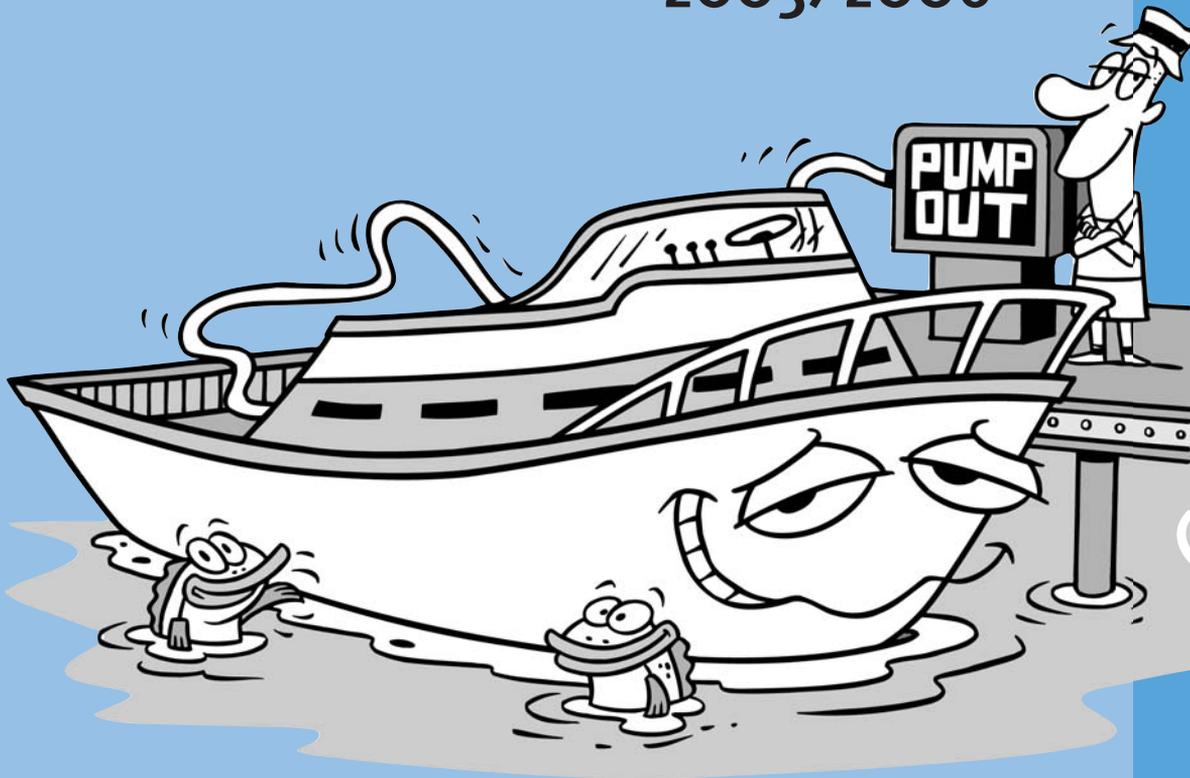


BOATER'S  
**PUMPOUT  
MAP & GUIDE**

2005/2006



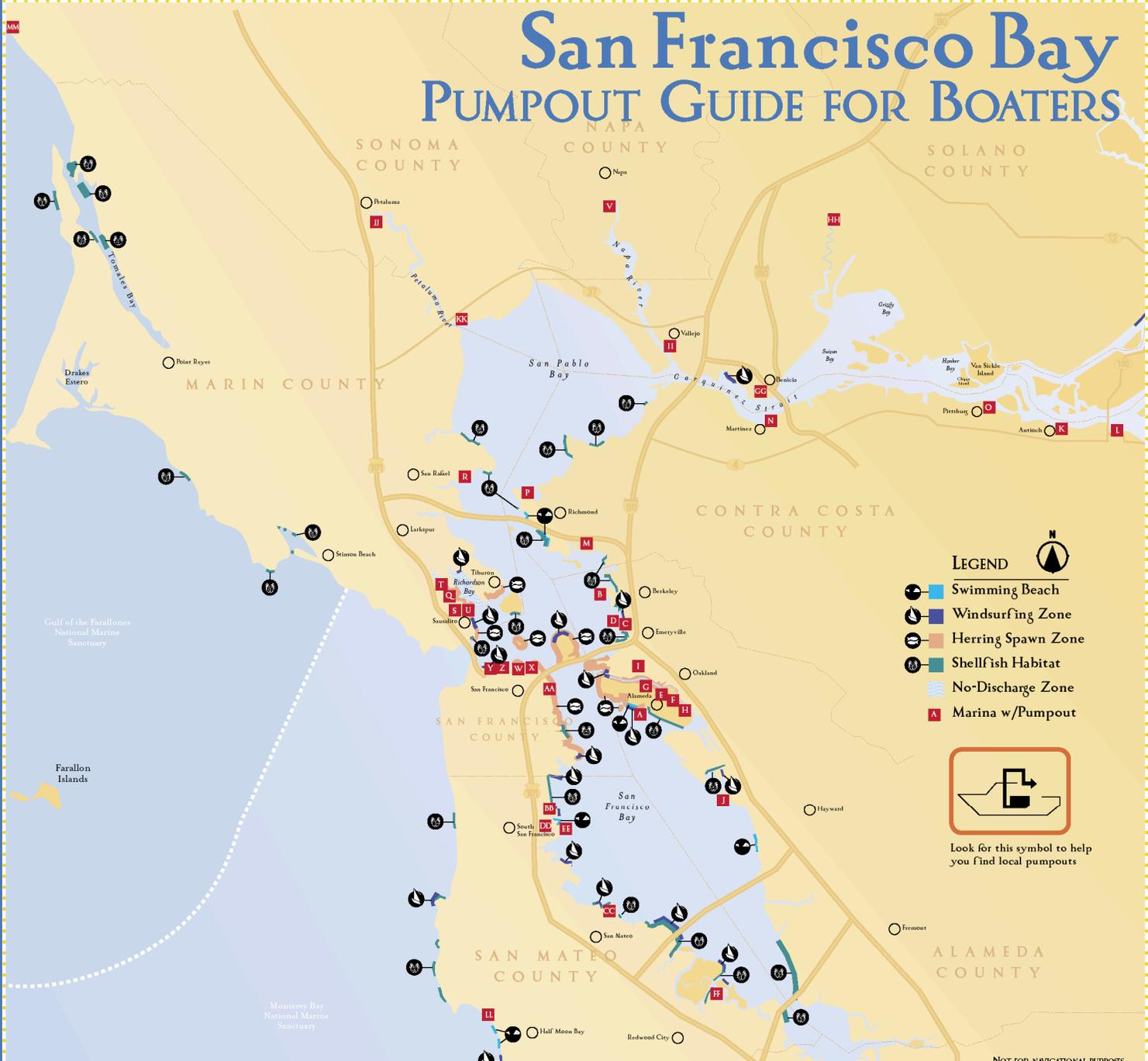
San Francisco Bay



*San Francisco Estuary Project*

Published  
by the California  
Department of  
Boating &  
Waterways  
and the  
San Francisco  
Estuary Project

# San Francisco Bay PUMPOUT GUIDE FOR BOATERS



**LEGEND**

- Swimming Beach
- Windsurfing Zone
- Herring Spawn Zone
- Shellfish Habitat
- No-Discharge Zone
- Marina w/Pumpout

Look for this symbol to help you find local pumpouts

NOT FOR NAVIGATIONAL PURPOSES

## DON'T DUMP... USE THESE PUMPS...

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	POTENTIAL DUMPOUT	PUBLIC RESTROOMS
<b>ALAMEDA COUNTY</b>					
<b>A</b>	BALLEN ISLE MARINA 155 Ballen Blvd., Ste. 111, Alameda, CA 94501	Fuel dock	Free	24 hrs.	Use pumpout station
<b>B</b>	BERKELEY MARINA 20 University Ave., Berkeley, CA 94702	End of I dock G dock	Free	24 hrs.	No
<b>C</b>	EMERY COVE YACHT HARBOR 3322 Powell St., Emeryville, CA 94608	A dock/S dock	Free	24 hrs.	No
<b>D</b>	EMERYVILLE MARINA 5305 Powell St., Emeryville, CA 94608	Fuel dock	Free	24 hrs.	No
<b>E</b>	FORTUNA MARINA 239 Grand St., Alameda, CA 94501	Near harbormaster's office	Free	24 hrs.	No
<b>F</b>	GRAND MARINA 535 Buena Vista, Alameda, CA 94501	Below harbormaster's office	Free	24 hrs.	No
<b>G</b>	MARINA VILLAGE YACHT HARBOR 120 Marina Village Pkwy., Alameda, CA 94501	Gates 8 & D	Free	24 hrs.	Use pumpout station
<b>H</b>	PARK STREET LANDING MARINA 7029 Blanding Avenue, Alameda, CA 94501	Foot of Park St. Bridge	Free	24 hrs.	No
<b>I</b>	PORT OF OAKLAND 7 Webster Street, Oakland, CA 94607	North Basin, Jack London Sq. & Union Point Basin	Free	8:30-5	Pumpout wand
<b>J</b>	SAN LEANDRO MARINA 40 San Leandro Marina, San Leandro, CA 94577	Fuel dock	Free	24 hrs.	No
<b>CONTRA COSTA COUNTY</b>					
<b>K</b>	ANTIOCH MARINA 5 Marina Plaza, Antioch, CA 94509	Fuel dock	Free	24 hrs.	Pumpout wand
<b>L</b>	DRIFTWOOD MARINA 5538 Ridgecrest Rd., Oakley, CA 94661	Fuel dock	Free	8-4	No
<b>M</b>	MARINA BAY YACHT HARBOR 342 Marina Way South, Richmond, CA 94804	End of G dock & top of D dock	Free	24 hrs.	No
<b>N</b>	MARTINEZ MARINA 7 N. Court St., Martinez, CA 94553	Fuel dock	Free	24 hrs.	No
<b>O</b>	PITTSBURG MARINA 51 Marina Blvd., Pittsburg, CA 94565	Fuel dock	Free	8:30-4:30	No
<b>P</b>	FT. SAN RAY YACHT HARBOR 800 Western Dr., Ft. Richmond, CA 94827	Fuel dock	\$5	8-5	Yes
<b>MARIN COUNTY</b>					
<b>Q</b>	CLIPPER YACHT HARBOR 310 Harbor Dr., Sausalito, CA 94965	Fuel dock	Tenants free; others \$10	8-12 and 1-4:30 M-F 8-10:30 and 2-4:30 W-Sun	Yes
<b>R</b>	LOCK LOMOND MARINA 110 Lock Lomond Dr., San Rafael, CA 94901	Fuel dock	Free	24 hrs.	Yes
<b>S</b>	MARINA PLAZA HARBOR 2222 Marinship Way, Sausalito, CA 94965	In marina & end of B dock	Free	9-5	No
<b>T</b>	RICHARDSON BAY MARINA 405 Gate 6 Rd., Sausalito, CA 94965	C dock	\$1 per cycle	24 hrs.	No
<b>U</b>	SCHOONMAKER POINT MARINA 185 Liberty Ship Way, Sausalito, CA 94965	A dock	Tenants free; others \$10	8-5	Yes

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	POTENTIAL DUMPOUT	PUBLIC RESTROOMS
<b>NAPA COUNTY</b>					
<b>V</b>	NAPA VALLEY MARINA 220 Millerton Road, Napa, CA 94559	Fuel dock	\$5	8-5 M-Sat 9-4 Sun	No
<b>SAN FRANCISCO COUNTY</b>					
<b>W</b>	FISHERMAN'S WHARF MARINA 300 Geary Street, San Francisco, CA 94102	Fuel dock	Free	7-5	No
<b>X</b>	PIR 39 MARINA Pier 39, San Francisco, CA 94133	A dock	Free	24 hrs.	Use pumpout station
<b>Y</b>	SAN FRANCISCO MARINA - GASHOUSE COVE 390 Scott Street, San Francisco, CA 94103	Near fuel dock	Free	24 hrs.	No
<b>Z</b>	SAN FRANCISCO MARINA - WEST HARBOR 3820 Scott Street, San Francisco, CA 94103	End of pier by harbormaster's office	Free	24 hrs.	No
<b>AA</b>	SOUTH BEACH HARBOR The Embarcadero Pier 40, San Francisco, CA 94107	East end of guest dock	Free	24 hrs.	No
<b>SAN MATEO COUNTY</b>					
<b>BB</b>	BIRSBANE MARINA Serra Point Parkway, Brisbane, CA 94025	Dock One	Free	24 hrs.	Yes
<b>CC</b>	COYOTE POINT MARINA 382 Coyote Point Dr., San Mateo, CA 94401	Dock at base of harbormaster's office	Free	8-5	No
<b>DD</b>	OSTER COVE MARINA 185 Oyster Point Blvd., S.F. San Francisco, CA 94020	End of Gate 5	Free	24 hrs.	No
<b>EE</b>	PORT OF REDWOOD CITY YACHT HARBOR 401 Seaport Ct., Redwood City, CA 94063	End of C dock	Free	Dawn to dusk	No
<b>SOLANO COUNTY</b>					
<b>GG</b>	BENICIA MARINA 256 East 8 St., Benicia, CA 94501	Fuel dock	Free	8-5	8-5 Fri-Sun, summer
<b>HH</b>	RUBEN CITY MARINA 222 Cottage Point Dr., San Francisco, CA 94030	End of fuel dock	Free	24 hrs.	No
<b>II</b>	VILLENUEVE MUNICIPAL MARINA 42 Harbor Way, Vallejo, CA 94590	New fuel dock & near J dock gate	Tenants free; others \$10	9-5 M-F 8:30-5 Su	No
<b>SONOMA COUNTY</b>					
<b>JJ</b>	PETAUMA MARINA 310 Harbor Dr., Petaluma, CA 94954	End of A dock	Free	24 hrs.	No
<b>KK</b>	PORT SONOMA MARINA 270 Sears Point Rd., Petaluma, CA 94952	Beckeringe dock	Free	9-5	No
<b>PACIFIC COAST MARINAS</b>					
<b>LL</b>	PILAR POINT MARINA One Johnson Pier, Half Moon Bay, CA 94039	Fuel dock	Free	24 hrs.	Yes
<b>MM</b>	REDWOOD POINT MARINA 88 West Shore Road, Bodega Bay, CA 94923	Fuel dock	Free	24 hrs.	No

© 2015 Marina with Pumpout. This guide is provided by the Bay Area Sanitary District in cooperation with the California Department of Boating and Waterways under a grant from the Clean Water Act. The San Francisco Estuary Project is a cooperative educational program whose primary goal is to promote the environmentally sound management of the Bay and Delta. The California Department of Boating and Waterways office may be contacted at (800) 333-8282 or www.dbw.ca.gov. A variety of other boating information and publications is available from the Sanitary District. Call (415) 433-3333.

# The Scuttlebutt

Captain your boat the clean way! Follow the tips in this guide for running a tight ship and you can avoid such indicacies as flushing your head right into a school of stripers or spilling a drop of bilge oil into the sparkling blue deep. With these tips in mind and this map in hand, you can help keep our waters clear and clean for everyone who boats, sails, surfs, skis, swims and fishes in San Francisco Bay and the Delta.

As of 2004, there were 232,297 registered boats in the Bay-Delta region and nearly one million statewide — enough to make a sizable impact on water quality. The 1992 Clean Vessel Act identifies vessel sewage discharges as a "substantial contributor to localized degradation of water quality in the United States."

While the amount of sewage pollution contributed by boaters isn't enormous, it does impact the health of human water users and the Bay-Delta ecosystem. Swimmers, windsurfers or boaters who come in contact with raw sewage can get stomach aches, diarrhea, skin rashes, hepatitis and even typhoid or cholera. Diners with a taste for raw clams, oysters or mussels face some of the same perils if the shellfish have been contaminated with sewage. Fish can die when the biological processes that break down sewage steal too much oxygen from their waters.

Sewage is not the only problem. Today, many of the products we use to run and maintain our homes, gardens, workplaces, vehicles and even boats are ending up in our creeks, rivers and bays — the same watersheds that provide drinking water to 22 million Californians and irrigate 4.5 million acres of farmland. While the traces of these fuels, pesticides, paints, cleaners and polishes washing into our waterways won't kill a salmon or a seagull outright, studies show they are increasingly building up in the aquatic ecosystem, with documented sub-lethal effects.

So open up this guide and review its five to-do lists for preventing pollution, and its map of the pumpouts and port-a-potty dump stations located at marinas and yacht harbors around San Francisco Bay. Then stash your new guide in a handy dry place so you can always find it when you feel like doing your part to keep our Bay a world-class place to be on the water.

## Clean Captain's Oath

- ⚓ I will not use the Bay as a water closet.
- ⚓ I will pump and dump at a convenient marina receiving station.
- ⚓ I will use vim and vinegar to swab the decks.
- ⚓ I will make merry but be wary (accidents lead to spills).
- ⚓ I will deliver my trash to onshore receptacles.
- ⚓ I will share these wise words and maps with fellow seadogs and mariners.



# 1

# The Poop

1) A weekend boater flushing untreated sewage into the Bay produces the same amount of bacterial pollution as that of 10,000 people whose sewage passes through a treatment plant.

2) Studies have found elevated levels of fecal coliform bacteria — a commonly used indicator for measuring the presence of feces in water — where there are concentrations of recreational boaters.

3) Over 100 different intestinal pathogens — viruses, parasites and bacteria — can be found in sewage.

4) Fecal coliform counts dropped from 16,000 per 100 ml to 23 per 100 ml in California's Avalon Harbor after the harbor launched a boater education and clean water program. As part of the program, dye tablets are deposited in on-board toilets, making illegal discharges highly visible.

5) Synthetic hormones (from birth control pills and hormone therapy) secreted via women's urine into waterways can be absorbed by fish, causing physiological changes and affecting the reproductive ability of male fish. Antibiotics and other drugs taken by humans are also turning up in the nation's waterways.

6) A single gallon of used motor oil spilled in one million gallons of water will kill half of all exposed Dungeness crab larvae. An oil spill can also cause hypothermia and organ damage in waterbirds, otters and other marine mammals, which can be fatal.

Sources: 1) S.F. Bay Regional Water Quality Control Board; 2) *Pollution Impacts From Recreational Boating*, Milliken & Lee, NOAA; 3) *Managing Wastewater in Coastal Urban Areas*, National Research Council, pp. 203-226; 4) Avalon Harbor; 5) Karen Kidd, Winnipeg Freshwater Institute, Gov. of Canada, Fisheries & Oceans; 6) California Dept. of Fish & Game; 7) California Dept. of Boating & Waterways

# Potty Prep

- ↓ Get equipped for proper handling of the sewage on your boat.
- ↓ Choose one of three Coast Guard-certified types of Marine Sanitation Devices (MSD) or a port-a-potty to hold or treat your waste (see *The Equipment* for more details). Types I and II treat your sewage so you can discharge it legally; type III's and port-a-potties hold it until you can pump or dump it out at your local marina. From an environmental impact perspective, a Type III MSD may be best because it conveys your boat waste into a local advanced sewage treatment system.
- ↓ Look for environmentally friendly disinfectants for your MSD. Whenever possible, choose products with ingredient lists that do not include chlorine, formaldehyde or other components that can be harmful to aquatic organisms and detrimental to pumpout facilities with septic systems. Whatever you choose, follow the instructions carefully and use only the amount recommended for effective treatment.
- ↓ Look for rapid-dissolving marine toilet paper specifically designed for MSDs.
- ↓ Keep your MSD in good operating condition. Make sure all fittings, hoses and other pump mechanisms stay clean and lubricated. Keep a repair kit on board.



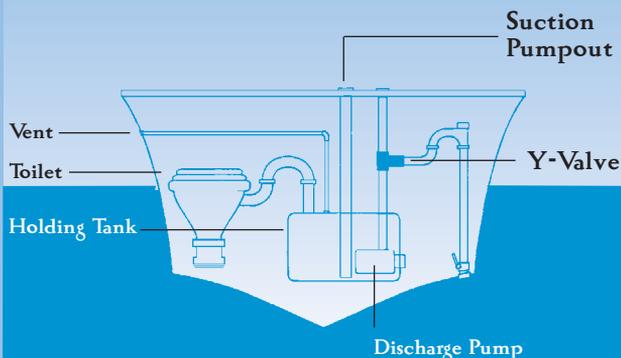
# The Equipment

A Marine Sanitation Device (MSD) prevents pollution from the discharge of untreated sewage from a boat. According to Coast Guard regulations, all boats with an installed toilet must have one of the three types listed below.

**Type I and II MSDs** break up the sewage and disinfect it with chemicals. It is legal in most instances to discharge from either type directly overboard, but you must add the appropriate chemicals for treatment. Without this treatment, discharge from a Type I or II system is considered raw sewage and remains illegal within the three-mile limit (see *The Rules*). Type II MSDs, usually found on larger boats, provide more extensive treatment than Type I MSDs.

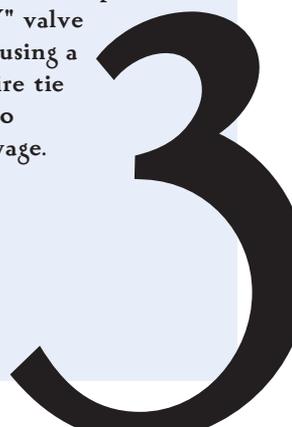
**Type III MSDs**, most commonly used by boaters, provide a holding tank for storing untreated sewage until it can be properly disposed of at an onshore pumpout station or by a mobile unit. Adding chemical deodorizers does not constitute treatment and does not allow you to dump wastes overboard. Some Type III MSDs have a "Y" valve, which allows you to dump directly overboard when you are operating outside the three-mile limit (except within federally designated No-Discharge Areas). Within the limit, you must secure the valve in the closed position with a padlock or non-releasable wire tie or remove the handle entirely.

Typical Type III MSD



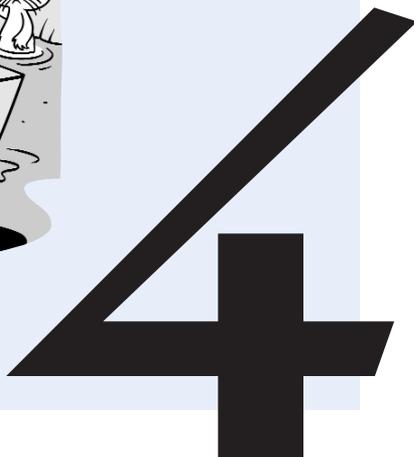
# Dump & Discharge Dos and Don'ts

- ⚓ Don't be a party pooper. Use the pump! Familiarize yourself with the location and operation of pumpout and dumpout facilities at your favorite shoreline haunts. The map and table inside tell you where to find these facilities around San Francisco Bay.
- ⚓ Pat your local marina owner on the back for keeping pumpout facilities in good working order. Report any breakdowns immediately to the marina operator, local environmental health agency or local boating law enforcement officer.
- ⚓ Never discharge untreated sewage wastes into the Delta or Bay.
- ⚓ If you must discharge treated sewage, avoid doing so near: sensitive shellfish beds and fish nursery grounds; areas where others may be swimming, wind surfing, water skiing or playing in the water (see map); or shallow bays, marinas or places with little water movement or tidal flushing.
- ⚓ Don't forget that Marin County's Richardson Bay is a "No-Discharge Area" where discharge of sewage, treated or untreated, from a vessel is strictly prohibited. When boating in Richardson Bay, a Type I or II MSD must be secured or the toilet sealed to ensure no wastes escape. As in all U.S. territorial waters, the "Y" valve must be adequately secured using a padlock or non-releasable wire tie or by removing the handle to prevent discharge of raw sewage.



# Swab & Spill Drill

- ↙ Fill your fuel tank carefully, and avoid topping off. Soak up, rather than hose down, any spills.
- ↙ Fix engine and fuel line leaks promptly, to prevent oil and fuel spills. Minimize spills before and during repairs by placing a drip pan under the leak or your work area. Dispose of your motor oil and used oil filters at a waste oil recycling center.
- ↙ Place a bilge pillow (an oil absorbing sponge or bioremediating boom) in your bilge to remove oil. Remove oily bilge water at a bilge pumpout station.
- ↙ Clean your boat with non-toxic detergents and avoid rinsing into the Bay. Check out *The Alternatives* for non-toxic options to common boat clean up and maintenance products.
- ↙ Use maintenance methods that prevent pollutants, sanding dust or other debris from being released into the water. Hold off on most of your maintenance and repair work till the end of the season when your boat may be out of the water. Limit in-the-water maintenance and cleaning to times and places where debris can be captured and disposed of properly.



# The Rules

- ↙ Discharges of untreated sewage are prohibited within the navigational waters of the U.S. (an area that includes the entire Bay and Delta and that extends three miles seaward beyond the coast).  
33 U.S.C. 1322
- ↙ Fines of up to \$2000 can be imposed for illegal discharges. CWA §312 (j)
- ↙ It is legal to discharge untreated sewage at sea (at least three miles out from the coast) except in the Gulf of the Farallones National Marine Sanctuary, Monterey Bay National Marine Sanctuary and Cordell Bank National Marine Sanctuary, (see map) which have the same discharge restrictions (no untreated sewage) as inland waters.  
Title 15, CFR, Sec. 922.82(a)(2)(ii)(A)
- ↙ All boats with installed toilets must have a Coast Guard-certified Marine Sanitation Device if operating in U.S. navigational waters. 33 CFR Part 159
- ↙ Vessels with a Type I or Type II Marine Sanitation Device must treat their sewage before discharge. For a Type I MSD, the fecal coliform count in the effluent must be no greater than 1000 per 100 milliliters of water and have no visible floating solids. For a Type II MSD, the fecal coliform count must be no greater than 200 per 100 milliliters, and suspended solids no greater than 150 milligrams per liter. 33 CFR Part 159
- ↙ Discharges of any kind, treated or not, are prohibited in Richardson Bay — a designated No-Discharge Area. 40 CFR Part 140.4
- ↙ When operating on the navigable waters of any lake, reservoir or freshwater impoundment, the vessel toilet must be sealed, rendered inoperable or designed so no human sewage can be discharged in the water. Div.104, Part 13, Chapter A, CHSC
- ↙ Discharges of oil or other hazardous substances are prohibited within 12 miles of the coast and within fisheries and marine preserves up to 200 miles from the coast under the Clean Water Act.  
40 CFR Part 110.6

## Clog & Clutter Control



- ⚓ Avoid chopping vegetation with your boat propeller. Exotic plants clogging your waterways, including water hyacinth, *Egeria densa* and hydrilla, are easily spread this way.
- ⚓ Before moving your boat from one lake or bay or river to another, inspect your boat for hitchhikers. Then purge your vessel of invasive plant fragments and aquatic critters by flushing and draining your systems, emptying bait buckets, cleaning tackle and gear, and pressure-washing the hull with hot water. Dispose of any debris at on-shore garbage facilities.
- ⚓ Stock your boat with reusable cups, plates and other utensils. Avoid plastic and Styrofoam, which can easily blow overboard, or must be hauled to shore for disposal.
- ⚓ Retrieve plastic trash, netting, six-pack yokes and other items from the water and bring them back to dock. Floating and shoreline trash can not only entangle, injure or kill marine life, but also damage other vessels.

### PUMPOUT INSTALLATION GRANTS

Grants are available to public and private marinas for construction and renovation of pumpout facilities and port-a-potty dump stations through provisions of the Clean Vessel Act of 1992 (covers up to 75% of cost). For more info, call the Department of Boating & Waterways (888) 326-2822.

## The Alternatives

PRODUCT	NON-TOXIC APPROACH
DETERGENT & SOAP	Fresh water and a lot of elbow grease
BLEACH	Hydrogen peroxide
SCOURING POWDERS	Baking soda or salt
FLOOR CLEANER	One cup white vinegar in 2 gallons water
WINDOW CLEANER	One cup vinegar in 1 quart warm water
VARNISH CLEANER	Wipe with 1/2 cup vinegar and 1/2 cup water solution
HEAD CLEANER	Brush with baking soda
SHOWER CLEANER	Wet surface, use scouring cloth with baking soda
ALUMINUM CLEANER	Use 2 tablespoons cream of tartar in 1 quart of water
CHROME CLEANER/POLISH	Apple cider vinegar to clean, baby oil to polish
FIBERGLASS STAIN REMOVER	Baking soda paste
DRAIN OPENER	Disassemble and replace; avoid toxic products
MILDEW REMOVER	Paste of equal parts lemon juice and salt
WOOD POLISH	Use 3 parts olive oil and 1 part white vinegar; almond or olive oil (interior unvarnished wood only)

*This guide was produced by the San Francisco Estuary Project in cooperation with the California Department of Boating and Waterways under a grant from the Clean Vessel Act. The information presented in this guide is accurate to the best of our knowledge. The San Francisco Estuary Project assumes no responsibility and disclaims any liability for any injury resulting from the use or effect of any product or information in this publication.*

# The Blue Pages

## EMERGENCY

911 or Channel 16 (VHF)

## WATER QUALITY VIOLATIONS

Oil & Fuel Spills  
(800)424-8862

BayKeeper (800)KEEPBAY

Central Valley Regional  
Water Quality Control  
Board (916)464-3291

San Francisco Bay Regional  
Water Quality Control  
Board (510)622-2300

## BOATING INFORMATION

California Department of  
Boating and Waterways  
(888)-326-2822

San Francisco Estuary Project  
(510)622-2398

U.S. EPA (No-Discharge Areas)  
(415)972-3476

## COUNTY POLICE & SHERIFF BOAT/MARINE UNITS

Alameda (510)748-4508

Contra Costa  
(925)646-2441

Marin (415)479-2311

San Francisco (415)553-0123

San Mateo (650)363-4911

Santa Clara (408)299-2311

Solano (707)421-7090

Sonoma (707)565-2511

U.S. Coast Guard  
(415)399-3455

## OIL SPILLS/RECYCLING

Oil/Hazardous Spill Reports  
(800)424-8802

Oil Recycling  
(800)CLEAN-UP

## PUMP-OUT INFORMATION

For the nearest pumpout  
station in California see:  
[www.dbw.ca.gov](http://www.dbw.ca.gov)

## BOATING SAFETY

U.S. Coast Guard  
(800)368-5647

## BOATING SAFETY CLASSES

U.S. Coast Guard  
(800)869-SAIL

U.S. Power Squadron  
(919)821-0281

## FISH & WILDLIFE

California Dept. of Fish &  
Game Hotline  
(800)952-5400

Marine Mammal Center  
(injured animals)  
(415)289-7325

Non-Native Aquatic  
Species Reports  
(888)321-8193

## HUMAN HEALTH

Department of Health  
Services (communicable  
diseases) (510)540-2566

Shellfish Information  
Hotline (warnings)  
(800)553-4133

Office of Environmental  
Health Hazard Assessment  
(fish warnings)  
(510)540-3063

## SPONSORS

CALIFORNIA DEPT.  
OF BOATING AND  
WATERWAYS

2000 Evergreen Street  
Suite 100  
Sacramento, CA 95815-3888  
888-326-2822  
fax (916) 263-0648  
[www.dbw.ca.gov](http://www.dbw.ca.gov)



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