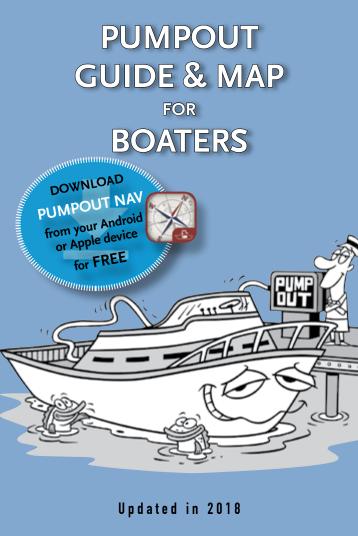
SAN FRANCISCO





CAPTAIN YOUR BOAT THE CLEAN WAY

Follow the tips in this guide for running a tight ship, and you can avoid such indelicacies as flushing your head into a school of stripers or spilling 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.

So open up this guide and review its tips 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 waterway.



DID YOU KNOW ?



\$2,000

More than one million motorized boats are registered in California and an estimated four million recreational boaters enjoy CA's marinas, lakes, rivers and coastal waters every year

One boater flushing untreated sewage overboard produces as much bacterial pollution as 10,000 people whose sewage passes through a treatment plant



Over 100 different intestinal pathogens - viruses, parasites, and bacteria can be found in sewage

There are over 80 pumpout stations throughout the Bay/Delta, and most of them are free!



RULES AND REGS

UNTREATED SEWAGE

Discharges of untreated sewage are prohibited within the navigational waters of the U.S. — an area that includes the entire San Francisco Bay and Delta and extends three miles seaward beyond the coast. [CWA §312 (j)]

Funded by the California Parks Division of Boating and Waterways and published in ooperation with the San Francisco Estuary Partnership. Funding is provided to Cal Par by the U.S. Fish and Wildlife Service Sport Fish Restoration and Boating Trust Fund.

STORT FISH

- Fines of up to \$2,000 can be imposed for illegal discharges. [CWA §312 (j)]
- It is legal to discharge untreated sewage at sea (you must be 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)]

ONBOARD TREATMENT SYSTEMS

- All boats with installed toilets must have a U.S. 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 1,000 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]

NO DISCHARGES HERE

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]

More rules and regs at www.dbw.ca.gov/Pumpouts (Educational Resources)

ONBOARD TREATMENT SYSTEM ?

A type I or II MSD is also called an onboard treatment system. These systems macerate sewage and treat it with chemicals or electricity. Some type III MSDs have macerators but DO NOT treat the sewage. Although onboard treatment systems do treat sewage, they are not nearly as effective as land based treatment systems and do not address nutrient loading or medications that pass through the body. Nutrients can cause blooms in aquatic plants, including invasive species. Have your system inspected regularly to ensure it is treating to specifications, so you are not inadvertently dumping inadequately treated sewage overboard.

FREQUENTLY HEARD MYTHS! "If I have an on board treatment system ...

I can discharge into the Delta"

[40 CFR 140.3] states that it is illegal to discharge any sewage (treated or untreated) into "rivers that do not support interstate



traffic." The entire Delta falls into this category. This means you cannot discharge into the Delta.

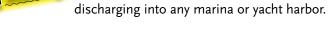
...I can discharge into freshwater lakes and reservoirs" [40 CFR 140.3] also states that these water bodies are protected from any sewage discharge.



...I can discharge into my marina or yacht harbor" It is not only courteous to not discharge sewage in confined quarters,



but the California Health and Safety Code [CHSC 117515] **ENSE:** states that it is also illegal to do so! This means no



...I don't have to secure my Y-Valve"

If you are operating your vessel in any body of water that is illegal to discharge in, [33 CFR 159.7] states that you must secure the device as to prevent overboard discharge! This includes the Delta, freshwater areas, and marina and yacht harbors.



See Onboard Equipment section in this guide for a diagram of Y-Valve Function.

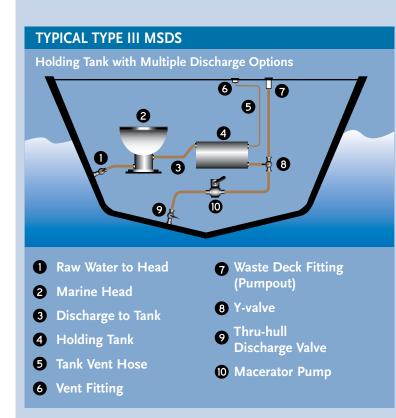
THE ONBOARD EQUIPMENT

YOUR DEVICE

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

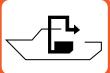
Type I and II MSDs break up the sewage and disinfect it with chemicals. It is legal in some instances to discharge from either type directly overboard, but you must add the appropriate chemicals for treatment. Without this treatment, discharge from a Type I or II system is considered raw sewage and remains illegal within the three-mile limit (see Rules and Regs).

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 that connects to a local sewer system. All MSDs can be pumped out by mobile units that dispose of the waste into sewer systems. Adding chemical deodorizers does not constitute treatment and does not allow you to dump wastes overboard.



THE 10 STEPS TO PUMPOUT

WATCH FOR THE NATIONAL PUMPOUT SIGN!



1. Follow pumpout instructions.

If instructions aren't posted or aren't clear, ASK! Encourage the marine operator to post easy-to-understand instructions.

2. Remove hose from rack for ideal vacuum and close nozzle valve on pumpout hose.

- 3. Remove deck waste fitting cover from boat and insert nozzle.
- 4. Turn on pump.
- 5. Open nozzle valve.

6. Check flow through sight glass. If flow doesn't occur within one minute, place nozzle in water for ten seconds. If there's still no flow, check for an air leak in the line or a block in the holding tank air vent.

7. When tank is empty, close nozzle valve.

8. Slowly remove nozzle from deck waste fitting by tipping nozzle to side to "crack" the seal made under pressure.

9. When finished rinse Bay/Delta water through the system for 5-10 seconds. Pump out only your holding tank. Pumpouts should never be used for bilge water or solid objects!

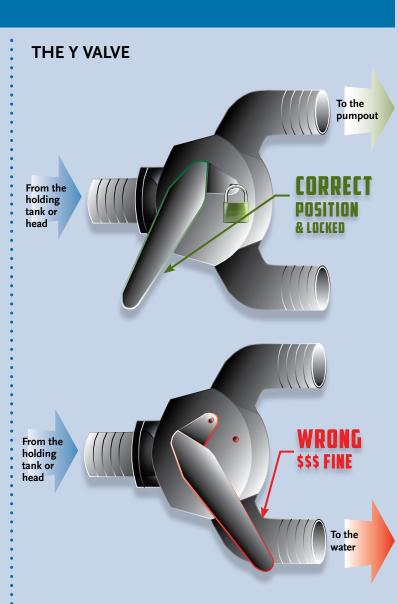
10. Turn off pump and return hose to rack for the next boater.

DON'T FEEL LIKE IT? GO MOBILE!

If you don't want to service the holding tank yourself, consider using a mobile pumpout service. Check the bottom of the map for services in your area.

BROKEN PUMPOUT STATION?

Report broken systems through the app or to the marina operator. Grant funds are available for marinas to repair or replace pumpouts through the California State Parks Division of Boating and Waterways Clean Vessel Act Program. Visit www.dbw.ca.gov/cvagrants for more information.



Almost all marine sanitary systems have a Y-valve. These devices allow vessel operators to divert the flow of sewage to discharge directly overboard when out at sea (3 miles from the coastline). While navigating or while anchored within the three miles limit,

you must secure the Y-valve in the closed position with a padlock or nonreleasable wire tie or remove the handle entirely.

(33CFR 159.7 & Div 104 Part 13 Chapter A CHSC)

NEW! PUMPOUT NAV Clean sewage management in your pocket!

FREE ANDROID AND

FOR SMART PHONES & TABLETS

Search for "Pumpout Nav" in the app store of your Android or Apple device. Any recent device will work!

FIND PUMPOUTS!

WHEN THE TIME COMES Pumpout Nav helps you find the closest operational pumpout to your location. Look for the green pins to find your station.

FIRST TIME USER?

ALL YOU NEED TO KNOW Watch a pumpout how-to video, learn about sewage impacts, what the law says, and your onboard system.

DOWNLOAD PUMPOUT NAV from your Android or Apple device for FREE

IHROUGHOUT

CALIFORNIA WELL, ALMOST

Pumpout Nav covers the Sacramento Delta and the San Francisco Bay as well as Southern California from Santa Barbara to San Diego. Other parts of the state (and beyond!) will be added soon.

SPEAK UP!

LET US KNOW IF SOMETHING'S NOT RIGHT If a pumpout is not accessible or doesn't work, report it through the app. The pin color will change and the marina will get notified.

FOR A FUNCTIONAL PUMPOUT NETWORK We update Pumpout Nav by monitoring units on a regular basis. Help us find non-working pumpouts and be part

of a functioning network.

THE GREEN PAGES

BOATING INFORMATION California Division of Boating & Waterways (888) 326-2822 San Francisco

COUNTY POLICE & SHERIFF

Contra Costa (925) 646-2441

San Francisco (415) 409-1020

San Mateo (650) 363-4911

Santa Clara (408) 299-2311

Solano (707) 421-7090

U.S. Coast Guard

(415) 399-3530

(800) 424-8802

California Office of

Oil Recycling (800) CLEAN-UP

www.earth911.com

Sonoma (707) 565-2121

OIL & SEWAGE SPILLS

National Response Center

BOAT/MARINE UNITS

Alameda (510) 667-7721

Marin (415) 479-2311

Napa (707) 253-4451

Estuary Partnership (415) 820-7900

California Division of **Boating and Waterways** www.dbw.parks.ca.gov

BOATING SAFETY

FISH & WILDLIFE California Dept. of Fish & Wildlife Hotline (CalTip) (888) 334-2258

National Invasive Species Hotline (877) 786-7267 Marine Mammal Center injured animals) (415) 289-7325

WildCare (injured terrestrial animals) (415) 456-SAVE

HUMAN HEALTH California Dept. of Public Health, Environmental Health Investigations Branch (Fish consumption warnings) (510) 620-3620 www.ehib.org

California Dept. of Public Health, Environmental Management Branch Emergency Services (800) OILS-911 (645-7911) (Shellfish Information Hotline —warnings) (800) 553-4133

PARTNERS



California State Parks Division of Boating and Waterways One Capitol Mall - Suite 410 Sacramento, CA 95814 (888) 326-2822 www.dbw.parks.ca.gov



Estuary Partnership 375 Beale Street, Suite 700 San Francisco, CA 94105 (415) 820-7900

www.sfestuary.org/boating Order your free maps by contacting the San Francisco **Estuary Partnership**

CLEAN BOATING

DISINFECTANTS & DEODORIZERS

Many chemical disinfectants and deodorizers used in Marine Sanitation Devices (MSDs) contain chemicals of concern including: Chlorine compounds (including sodium hypochlorite), formaldehyde, paraformaldehyde, ammonium compounds, glutaraldehyde, paradichlorobenzene, or anti-microbials (such as Dowicil or Bronopol). It only takes one-tenth of a part per million of chlorine to harm or kill aquatic organisms in the vicinity of a discharge. Use enzyme and bio-active treatments when possible as these are biodegradable and less toxic treatments. Read labels carefully and use only the amount recommended to ensure adequate treatment.

GREEN SOLUTIONS FOR SMELLY PROBLEMS:

• Empty your holding tank on a regular basis. Full and overfull tanks are difficult and dangerous to drain.

• Periodically rinse the entire system with water. As described in the 9th step to pumpout.

• Clean with a vinegar solution. Before you add any holding tank treatment, use a vinegar solution, about once a month, immediately after a tank has been emptied. This solution will help to reduce scale buildup and it will keep the walls of the hose clean.

• Deodorize with borax and baking soda. To clean and deodorize the boat's head, use a mix of ½ cup borax per 1 gallon of water. Clean frequently with a solution of baking soda and water, and sprinkle baking soda around the rim.

• Change hoses when needed. Over time, the system hoses, made up of a rubbery material, start absorbing the sewage smell. Perform the following quick test: Use a rag with hot water and put it around the hoses for a few minutes. Remove the rag and if the rag has a bad odor, like sewage, the odor is permeating through the hose and it's time to change it.

www.BoatingCleanandGreen.com

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

Check with your local chandlery for green products.

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wood only)









DON'T DUMP... USE THESE PUMPS

MARINA WITH PUMPOUT		LOCATION	PUMPOUT COST	HOURS	PORTAPOTTY DUMPOUT	PUBLIC RESTROOMS		
ALAMEDA COUNTY								
Α	BALLENA ISLE MARINA 1150 Ballena Blvd., Ste. 111, Alameda, CA 94501	510-523-5528	Fuel dock	Free	24 hours	No	Yes 8:30-5	
В	BERKELEY MARINA 201 University Ave., Berkeley, CA 94710	510-981-6740	End of I dock, G dock & C dock	Free	24 hours	No	Yes	
С	EMERY COVE YACHT HARBOR 3300 Powell St., Emeryville, CA 94608	510-428-0505	A dock/S dock	Free	24 hours	Use pumpout station	Yes	
D	EMERYVILLE MARINA 3310 Powell St., Emeryville, CA 94608	510-654-3716	Fuel dock	Free	24 hours	No	Yes	
Ε	GRAND MARINA 2099 Grand St., Alameda, CA 94501	510-865-1200	Below harbormaster's office	Free	9-5	No	Yes	
F	MARINA VILLAGE YACHT HARBOR 1030 Marina Village Pkwy, Alameda, CA 94501	510-521-0905	Docks 8 & 10	Free	24 hours	No	Yes	
G	OAKLAND MARINA 2 Webster St., Oakland, CA 94607	510-834-4591	Jack London Square	Free	24 hours	No	Yes	
Н	SAN LEANDRO MARINA 40 Mulford Point Dr., San Leandro, CA 94577	510-577-3488	Fuel dock	Free	24 hours	No	Yes Daylight Hours	
CO	NTRA COSTA COUNTY							
I	ANTIOCH MARINA 5 Marina Plaza, Antioch, CA 94509	925-779-6957	Guest dock & fuel dock	Free	Guest dock: 24 hours Fuel dock: 8-5	No	Yes 8-5	
J	MARINA BAY YACHT HARBOR 1340 Marina Way South, Richmond, CA 94804	510-236-1013	End of G dock & top of D dock	Free	24 hours	No	Yes 9-5	
Κ	MARTINEZ MARINA 7 N. Court St., Martinez, CA 94553	925-313-0942	Old fuel dock	Free	24 hours	No	Yes 8:30-4:30	
L	PITTSBURG MARINA 51 Marina Blvd. #E, Pittsburg, CA 94565	925-439-4958	Fuel dock Guest dock	Free	24 hours	No	Yes 8-5	
MARIN COUNTY								
Μ	CLIPPER YACHT HARBOR 310 Harbor Dr., Sausalito, CA 94965	415-332-3500	Fuel dock	Tenants free; others \$5	8-11:30 and 2-4	Yes	Yes	
Ν	GALILEE HARBOR 300 Napa St., Sausalito, CA 94965	415-332-8554	End of South dock	\$5	10-4 preferably high tide	No	No	
0	LOCH LOMOND MARINA 110 Loch Lomond Dr., San Rafael, CA 94901	415-454-7228	Fuel dock	Free	24 hours	Yes	No	
Ρ	MARINA PLAZA HARBOR 2310 Marinship Way, Sausalito, CA 94965	415-332-4723	B dock close to gate	Free	9-5	No	No	
φ	RICHARDSON BAY MARINA 100 Gate 6 Rd., Sausalito, CA 94965	415-332-5510	C dock	Free	24 hours	No	Yes	
R	SCHOONMAKER POINT MARINA 85 Liberty Ship Way, Sausalito, CA 94965	415-331-5550	B dock	Free	8-11 and 3-6	No	Yes 8-8	
NAPA COUNTY								
S	NAPA VALLEY MARINA 1200 Milton Rd., Napa, CA 94559	707-252-8011	Fuel dock	\$1O	8-5 weekdays 9-5 Sat, 9-4 Sun	No	Yes	
	NEW! Download the FREE PUMPOUT NAV app on your phone and find the closest operational Pumpout Station for your boat in California.							

MA	RINA WITH PUMPOUT		LOCATION	PUMPOUT COST	HOURS	PORTAPOTTY DUMPOUT	PUBLIC RESTROOMS	
S	AN FRANCISCO COUNTY							
Т	FISHERMAN'S WHARF MARINA Foot of Hyde St., San Francisco, CA 94123	415-673-2928	Fuel dock	Free	6-5 weekdays 6-2 weekends	No	No	
U	PIER 39 MARINA Pier 39, San Francisco, CA 94133	415-705-5436	A dock	Free	24 hours	Use pumpout station	Yes	
V	SAN FRANCISCO MARINA - GASHOUSE COVE 3950 Scott St., San Francisco, CA 94123	415-831-6322	Fuel dock	Free	24 hours	No	Daytime only	
W	SAN FRANCISCO MARINA - WEST HARBOR 3950 Scott St., San Francisco, CA 94123	415-831-6322	Pumpout dock	Free	24 hours	No	Daytime only	
Х	SOUTH BEACH HARBOR The Embarcadero, Pier 40, San Francisco, CA 9410	415-495-4911 7	South guest dock	Free	24 hours	No	Yes	
Υ	TREASURE ISLE MARINA 1 Clipper Cove Way, San Francisco, CA 94130	415-981-2416	Southern end of D dock	Free	24 hours	No	No	
S/	N MATEO COUNTY							
Z	BRISBANE MARINA 400 Sierra Point Parkway Brisbane, CA 94005	650-583-6975	Pier 1	Free	24 hours	Yes	Yes	
A	COYOTE POINT MARINA 1900 Coyote Point Dr., San Mateo, CA 94401	650-573-2594	Guest dock	Free	24 hours	No	Yes	
BE	OYSTER COVE MARINA 385 Oyster Point Blvd, S. San Francisco, CA 94080	650-952-5540	Dock 5	Free	24 hours	Yes	No	
C	OYSTER POINT MARINA 95 Harbormaster Rd. #1, So. San Francisco 94080	650-952-0808	Fuel dock	Free	8-6	Yes	Yes	
D	PILLAR POINT MARINA PILLAR POINT PI	650-726-4382	Fuel dock	Free	24 hours	Yes	Yes	
EE	Hor beaport off, Reamond only, OA 74000	650-363-1390	End of C dock	Free	24 hours	No	Yes	
FF	WEST POINT HARBOR 101 Westpoint Harbor Drive, Redwood City, CA 94063	650-701-0545	Guest dock	Free	24 hours	No	Yes	
S	DLANO COUNTY							
G	BENICIA MARINA 266 East B St., Benicia, CA 94510	707-745-2628	Fuel dock	Free	24 hours	No	Yes	
Hŀ	GLEN COVE MARINA 2000 Glen Cove Marina Rd., Vallejo, CA 94591	707-552-3236	Dock 8	Free	24 hours	No 10	Yes D-5 T-F, 10-4 Sat-M	
Ш	SUISUN CITY MARINA 800 Kellogg St., Suisun City, CA 94585	707-429-BOAT	End of fuel dock	Free	24 hours	No	Yes 8:30-5	
J	VALLEJO MUNICIPAL MARINA 42 Harbor Way, Vallejo, CA 94590	707-648-4370	J dock & fuel dock	Free	24 hours	No	Yes 9-5	
SC	DNOMA COUNTY							
Kk	PETALUMA MARINA 781 Baywood Dr., Petaluma, CA 94954	707-778-4489	End of A dock	Free	24 hours	No	Yes	
MOBILE PUMPOUT SERVICE								
	GREEN MARINE SANITATION SERVICES es San Francisco, San Mateo, and Alameda (everything sout	415-621-1393 h of the Richmond Br	www.baygreen.net idge)	Varies	8-5			
MAI	RINE SERVICE CORPS	510-629-4185	www.marineservicecorps.net	Varies	By appointment			
MT	HEAD MARINE SANITATION SERVICE res Richardson Bay	650-483-5689	www.mthead.com	Varies	Varies see web site			
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