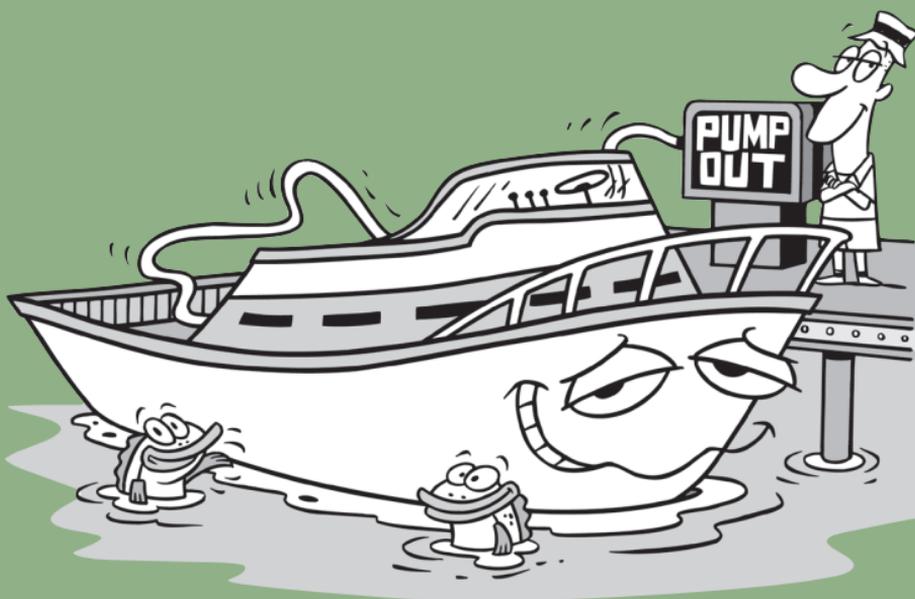


# SACRAMENTO - SAN JOAQUIN RIVER

# DELTA

## PUMPOUT GUIDE & MAP FOR BOATERS



Updated in 2015



Published by the California State Parks Division of Boating & Waterways  
and the San Francisco Estuary Partnership

# 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 the Delta. 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 Delta a world-class waterway.



## DID YOU KNOW ?

**FOUR  
MILLION**

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

**10,000  
TO 1**

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

**OVER  
100**

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

**90**

There are 90 pumpout stations throughout the Bay/Delta, and most of them are free!

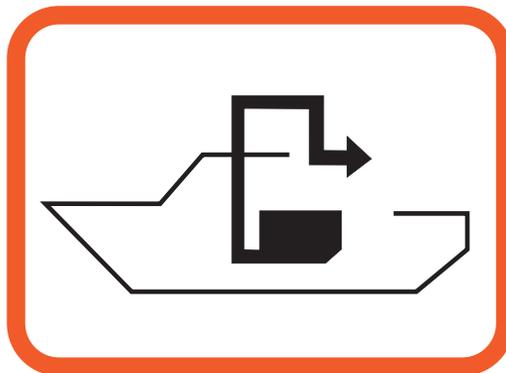
**\$2,000**

That's the fine for dumping untreated sewage where you are not supposed to. Yep, even your bucket!

# THE 11 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. 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. (Valves can be difficult to turn — be persistent!)
6. Check the flow through the sight glass. If flow doesn't occur within one minute, place the nozzle in water for ten seconds. If there's still no flow, check for an air leak in the line or a plug in the holding tank air vent.
7. When tank is empty, close the nozzle valve.
8. Slowly remove the nozzle from the deck waste fitting by tipping nozzle to side to "crack" the seal made under pressure.
9. Rinse Bay/Delta water through the system for 5-10 seconds once you've finished. Pump out only your holding tank. **Pumpouts are not designed to handle bilge water or solid objects.**
10. Turn off the pump and return the hose to the hose rack when you're finished so it will work for the next boater.
11. Thank your local boating facility owner for keeping pumpout facilities in good working order.



## Scan this QR code

to watch a step-by-step pumpout video, or navigate to [sfestuary.org/boating](http://sfestuary.org/boating)

## DON'T FEEL LIKE IT? GO MOBILE!

If you don't want to service the holding tank yourself, consider using a mobile pumpout service. For mobile pumpout services in your area, flip this guide over and check the bottom right of the map!



### BROKEN PUMPOUT STATION?

Report any breakdowns immediately to the marina operator. Grant funds are available for repair and replacement of pumpouts through the California State Parks Division of Boating and Waterways Clean Vessel Program. For more information visit [www.dbw.ca.gov/Funding/Pumpout.aspx](http://www.dbw.ca.gov/Funding/Pumpout.aspx) or contact Ron Kent: (916) 327-1819 [ron.kent@parks.ca.gov](mailto:ron.kent@parks.ca.gov)

# RULES AND REGS

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)])

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)]

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]

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.parks.ca.gov/lawsregs](http://www.dbw.parks.ca.gov/lawsregs)



## 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. In addition, if you do not have your system inspected regularly to ensure it is treating to specifications, you may inadvertently dump inadequately treated sewage overboard.

## FREQUENTLY HEARD MYTHS !

**“If I have an on board treatment system ... I can discharge into the Delta”**

**BUSTED!**

[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.

**...I can discharge into freshwater lakes and reservoirs”**

**SORRY!**

[40 CFR 140.3] also states that these water bodies are protected from any sewage discharge.

**FALSE!**

**...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] states that it is also illegal to do so!

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

**NOT!**

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!

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

# THE ONBOARD EQUIPMENT

## YOUR DEVICE

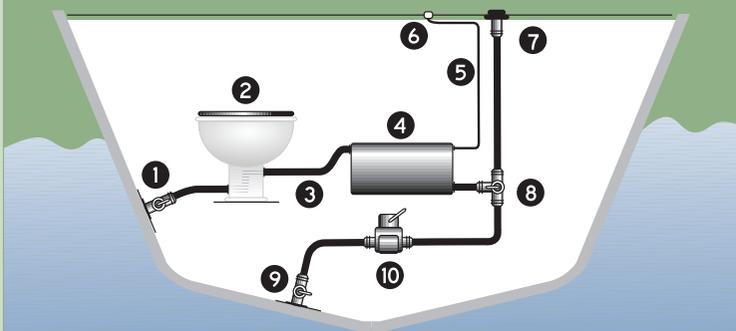
A Marine Sanitation Device (MSD) prevents pollution from the discharge of untreated sewage from a boat. According to U.S. Coast Guard regulations, all boats with an installed toilet must have one of the approved three types listed below:

Type I and II MSDs break up the sewage and disinfect it with chemicals. It is legal in some instances (see the **Macerator page for restrictions**) 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.**

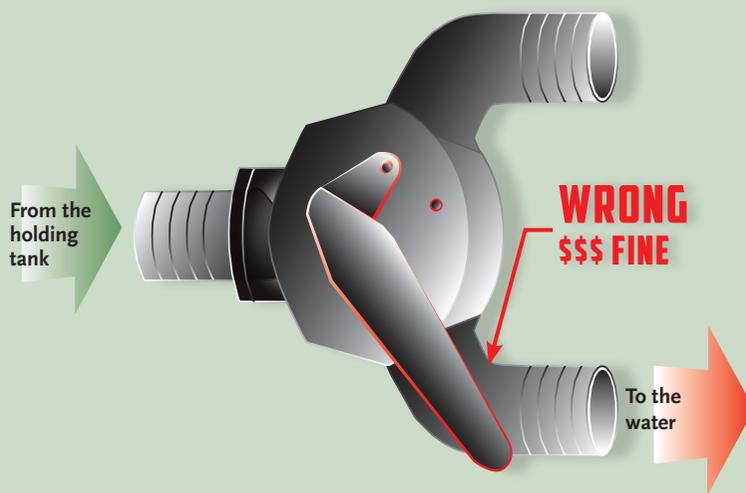
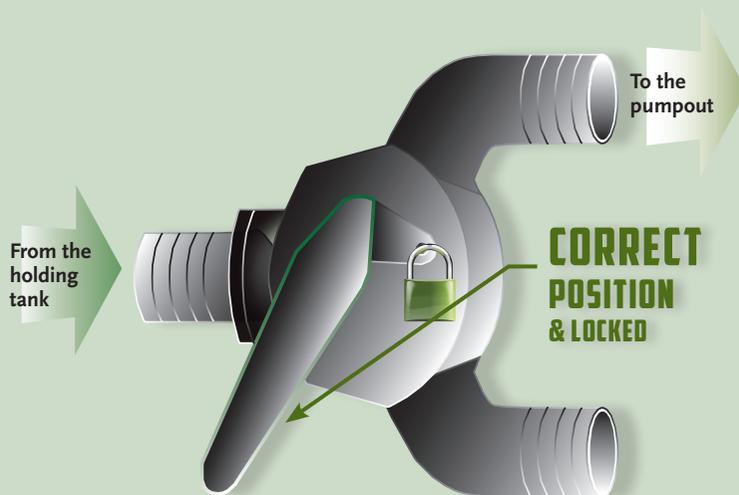
## TYPICAL TYPE III MSDS

### Holding Tank with Multiple Discharge Options



- |                     |                                |
|---------------------|--------------------------------|
| 1 Raw Water to Head | 7 Waste Deck Fitting (Pumpout) |
| 2 Marine Head       | 8 Y-valve                      |
| 3 Discharge to Tank | 9 Thru-hull Discharge Valve    |
| 4 Holding Tank      | 10 Macerator Pump              |
| 5 Tank Vent Hose    |                                |
| 6 Vent Fitting      |                                |

## THE Y VALVE



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)

# 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](http://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 wood only)

**Check with your local chandlery for green products.**

*This guide was produced by the San Francisco Estuary Partnership in cooperation with the California State Parks Division 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 Partnership assumes no responsibility and disclaims any liability for any injury resulting from the use or effect of any product or information in this publication.*

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# THE GREEN PAGES

## BOATING INFORMATION

California Division of  
Boating & Waterways  
(888) 326-2822

San Francisco  
Estuary Partnership  
(510) 622-2406

## COUNTY POLICE & SHERIFF BOAT/MARINE UNITS

Alameda (510) 667-7721

Contra Costa (925) 646-2441

Marin (415) 479-2311

Napa (707) 253-4451

Sacramento (916) 264-5471

San Francisco (415) 409-1020

San Joaquin (209) 468-4400

San Mateo (650) 363-4911

Santa Clara (408) 299-2311

Solano (707) 421-7090

Sonoma (707) 565-2121

Yolo (530) 666-8282

U.S. Coast Guard  
(415) 399-3530

## OIL SPILLS

National Response Center  
(800) 424-8802

California Office of  
Emergency Services  
(800) OILS-911 (645-7911)

Oil Recycling  
(800) CLEAN-UP  
[www.earth911.com](http://www.earth911.com)

## PUMPOUT INFORMATION

[www.dbw.ca.gov/Pumpouts](http://www.dbw.ca.gov/Pumpouts)

## BOATING SAFETY

California Division of  
Boating and Waterways  
[www.dbw.parks.ca.gov](http://www.dbw.parks.ca.gov)

## 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](http://www.ehib.org)

California Dept. of  
Public Health, Environmental  
Management Branch  
(Shellfish Information  
Hotline —warnings)  
(800) 553-4133

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## 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](http://www.dbw.parks.ca.gov)

SAN FRANCISCO



**San Francisco  
Estuary Partnership**  
1515 Clay Street, Suite 1400  
Oakland, CA 94612  
(510) 622-2406  
[www.sfestuary.org](http://www.sfestuary.org)

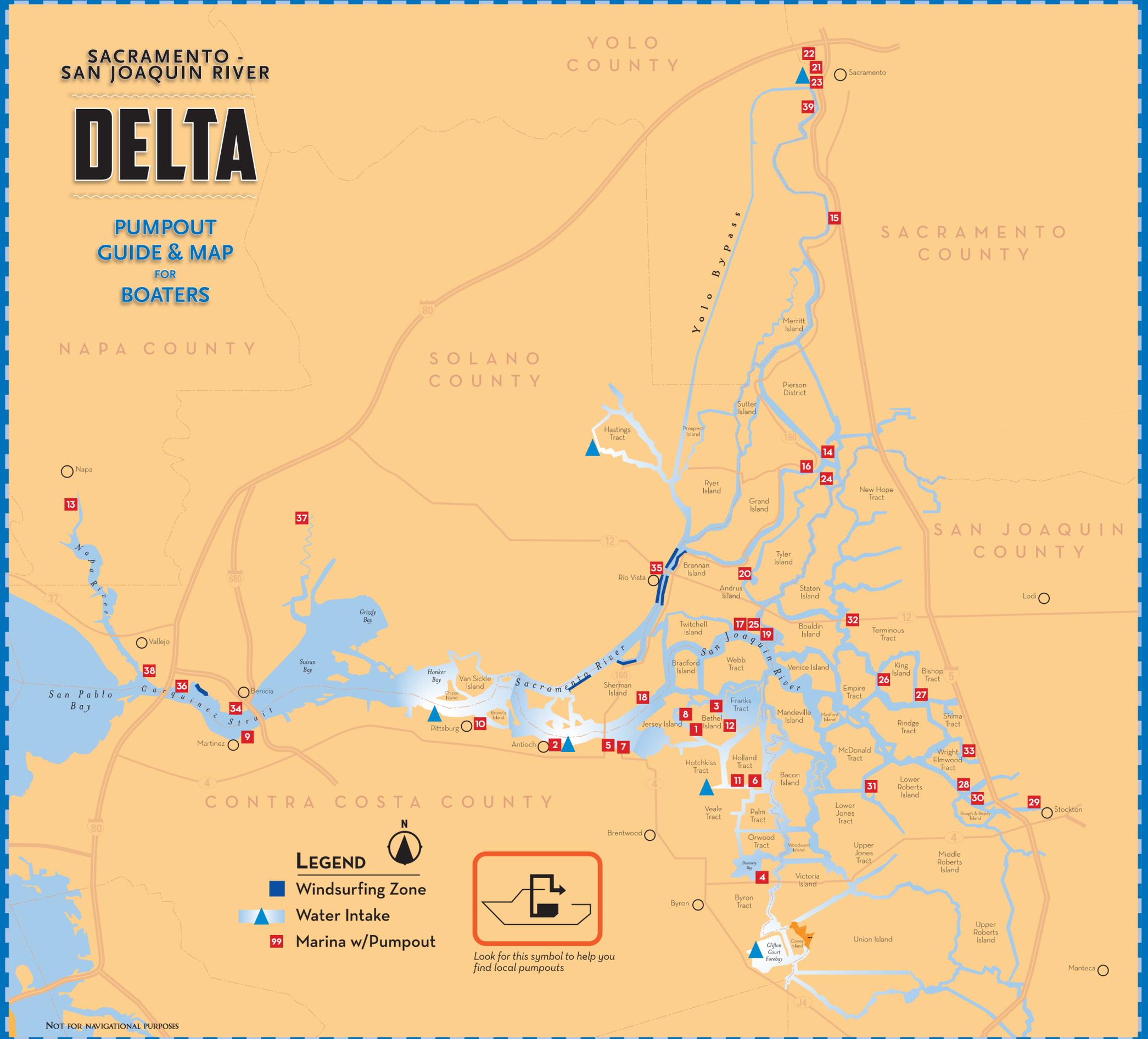
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**Order your free maps by  
contacting the San Francisco  
Estuary Partnership**

SACRAMENTO - SAN JOAQUIN RIVER

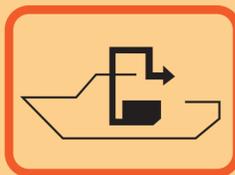
# DELTA

PUMPOUT  
GUIDE & MAP  
FOR  
BOATERS



LEGEND

- Windsurfing Zone
- Water Intake
- Marina w/Pumpout



Look for this symbol to help you find local pumpouts

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

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	PORT/APOTTY DUMP	PUBLIC RESTROOMS
<b>CONTRA COSTA COUNTY</b>					
<b>1 ANCHOR MARINA</b> 1970 Taylor Rd., Bethel Island, CA 94511	925-684-9148	Fuel dock	Free	9-6	Yes
<b>2 ANTIOCH MARINA</b> 5 Marina Plaza, Antioch, CA 94509	925-779-6957	Guest dock & fuel dock	Free	24 hours	Pumpout wand at fuel dock
<b>3 BETHEL HARBOR</b> 3405 Harbor Road, Bethel Island, CA 94511	925-684-2141	Service dock	\$10	7-5	No
<b>4 DISCOVERY BAY YACHT HARBOR</b> 8901 Marina Rd., Discovery Bay, CA 94505	925-634-5928	Fuel dock	Free to tenants Others \$15	24 hours	No
<b>5 DRIFTWOOD MARINA</b> 6338 Bridgehead Rd., Oakley, CA 94561	925-757-9449	Fuel dock	Free	24 hours	No
<b>6 HOLLAND RIVERSIDE MARINA</b> 7000 Holland Tract Rd., Brentwood, CA 94513	925-684-3667	Dock near store	Free to tenants Others \$7	8-6 8-5 Winter	No
<b>7 LAURITZEN YACHT HARBOR</b> 115 Lauritzen Lane, Oakley, CA 94561	925-757-1916	Fuel dock	Free to tenants Others \$5	7:30-5 M-Th; 7:30-9 F; 5:30-9 SS Closed Xmas, NewYrs & Thanksgiving	No
<b>8 NEW LIFE MARINA</b> 1200 Taylor Rd., Bethel Island, CA 94511	925-684-2166	Near fuel dock	Info upon request	8-5	No
<b>9 MARTINEZ MARINA</b> 7 N. Court St., Martinez, CA 94553	925-313-0942	Old fuel dock	Free	24 hours	No
<b>10 PITTSBURG MARINA</b> 51 Marina Blvd. *E, Pittsburg, CA 94565	925-439-4958	Fuel dock	Free	24 hours	No
<b>11 LINDQUIST LANDING MARINA</b> 4500 Holland Tract Rd., Knightsen, CA 94548	925-684-3631	Pumpout dock	Free	24 hours	No
<b>12 SUGAR BARGE RESORT</b> 1440 Sugar Barge Road, Bethel Island, CA 94511	925-684-8575	Fuel dock	\$10 & up	8-5	Yes
<b>NAPA COUNTY</b>					
<b>13 NAPA VALLEY MARINA</b> 1200 Milton Road, Napa, CA 94559	707-252-8011	Fuel dock	\$5	8-5 M-F 9-5 Sat, 9-4 Sun	No
<b>SACRAMENTO COUNTY</b>					
<b>14 BOATHOUSE MARINA</b> 13900 River Rd., Locke, CA 95690	Dock 1 916-776-1204	\$20	9-5	No	No
<b>15 CLIFF'S MARINA</b> 8651 River Rd., Sacramento, CA 95832	916-665-1611	Fuel dock	\$20-40	9-4 W-Sun, winter 9-5 Tu-Sun, summer	No
<b>16 DAGMAR'S LANDING</b> 14181 Hwy. 160, Walnut Grove, CA 95690	916-776-1961	Public dock	Free to tenants others \$20	By appt.	No
<b>17 SACRAMENTO DELTA BAY MARINA</b> 922 W. Brannan Island Rd., Isleton, CA 95641	916-777-4153	Guest dock	\$15	8:30-5 summer; call for winter hours	No
<b>18 EDDO'S HARBOR</b> 19530 Sherman Island E. Levee Rd., Rio Vista, CA 94571	925-757-5314	Fuel dock	Free	9-5:30	No
<b>19 KORTH'S PIRATES' LAIR MARINA</b> 169 W. Brannan Island Rd., Isleton, CA 95641	916-777-6464	Fuel dock	Free to tenants others \$10	7-5	Use pumpout
<b>20 OXBOW MARINA</b> 100 Oxbow Marina Dr., Isleton, CA 95641	916-777-6060	Fuel dock	Free	24 hours	Yes
<b>21 RIVERBANK MARINA</b> 1571 Garden Hwy., #200, Sacramento, CA 95832	916-922-0720	Between C&D Gates	Free	7-6 Public; 24 hours, Tenants	Yes
<b>22 RIVERVIEW MARINA</b> 1601 Garden Hwy., Sacramento, CA 95833	916-925-4100	Guest dock	Free	10-2 winter; 10-2 M-Th, 9-3 F-Sun summer	No
<b>23 SACRAMENTO MARINA</b> 2710 Ramp Way, Sacramento, CA 95818	916-808-5712	Fuel dock	Free	24 hours	No

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	PORT/APOTTY DUMP	PUBLIC RESTROOMS
<b>SACRAMENTO COUNTY CONTINUED</b>					
<b>24 WALNUT GROVE MARINA</b> 1400 Old Levee Rd., Walnut Grove, CA 95690	916-776-1181	Fuel dock	\$20	Call for hours	Yes
<b>25 WILLOW BERM MARINA</b> 140 Brannan Island Rd., Isleton, CA 95641	916-777-6313	Fuel dock	Free	8:30-4:30	No
<b>SAN JOAQUIN COUNTY</b>					
<b>26 KING ISLAND RESORT</b> 11530 West 8 Mile Rd., Stockton, CA 95219	209-951-2188	Fuel dock	Free	8-4 winter 8-5 summer	Yes
<b>27 PARADISE POINT MARINA</b> 8095 Rio Blanco Rd., Stockton, CA 95219	209-952-1000	Fuel dock	\$25 Moorage customer free	8-6 Sun-Th 8-6:30 Fr-Sat	No
<b>28 RIVER POINT LANDING RESORT</b> 4950 Buckley Cove Way, Stockton, CA 95219	209-951-4144	Fuel dock	\$15	9:5-3:30 summer 9-4:30 winter	Yes
<b>29 STOCKTON DOWNTOWN MARINA</b> 445 W. Weber Ave., Ste 128B, Stockton, CA 95203	209-462-4200	Guest dock	Free	24 hours	No
<b>30 STOCKTON YACHT HARBOR</b> 3235 River Dr., Stockton, CA 95204	209-946-9259	Guest dock	\$10	24 hours	No
<b>31 TIKI LAGUN RESORT</b> 12988 W. McDonald Rd., Stockton, CA 95206	209-941-8975	Fuel dock	\$5	9-5	No
<b>32 TOWER PARK MARINA</b> 14900 West Hwy. 12, Lodi, CA 95242	209-365-4673	Fuel Dock	Free	24 hours	No
<b>33 VILLAGE WEST MARINA</b> 6649 Embarcadero Dr., Stockton, CA 95219	209-951-1551	Fuel dock	Free	24 hours	No
<b>SOLANO COUNTY</b>					
<b>34 BENICIA MARINA</b> 266 East B St., Benicia, CA 94510	707-745-2628	Fuel dock	Free	24 hours	No
<b>35 DELTA MARINA YACHT HARBOR</b> 1000 Marine Dr., Rio Vista, CA 94571	707-374-2315	Guest dock	Tenants free; others \$5	8-5 M-F; 8-4 Su summer; 8-4 T, W, T & Su, 8-5 F, S winter	No
<b>36 GLEN COVE MARINA</b> 2000 Glen Cove Rd., Vallejo, CA 94591	707-552-3236	Dock 8	Free	24 hours	No
<b>37 SUISUN CITY MARINA</b> 800 Kellogg St., Suisun City, CA 94585	707-429-BOAT	End of fuel dock	Free	24 hours	No
<b>38 VALLEJO MUNICIPAL MARINA</b> 42 Harbor Way, Vallejo, CA 94590	707-648-4370	J dock & fuel dock	\$10 for non-berthers	24 hours	No
<b>YOLO COUNTY</b>					
<b>39 SHERWOOD HARBOR MARINA</b> 3505 South River Rd., West Sacramento, CA 95691	916-371-3471	Fuel dock	\$10	24 hours	No
<b>MOBILE PUMPOUT SERVICE</b>					
<b>SEPTIC BROTHERS MARINE PUMPOUT</b> Discovery Bay to Walnut Grove to Antioch	209-329-0768	\$25-60		Dawn-Dusk	

This guide was produced by the San Francisco Estuary Partnership in cooperation with the California State Parks Division of Boating and Waterways under a grant from the Clean Vessel Act. The San Francisco Estuary Partnership is a cooperative federal/state program whose primary goal is to promote environmentally sound management of the Bay and Delta. A variety of free boater education and pollution prevention materials is available from [www.sfestuary.org](http://www.sfestuary.org). Call (510) 622-2406. The mission of the California State Parks Division of Boating and Waterways is to provide safe and convenient public access to California's waterways. Visit [www.dbw.parks.ca.gov](http://www.dbw.parks.ca.gov) or call (888) 326-2822 to order free boating educational materials.