



A Lookback at 30 Years of SFEP's Clean Vessel Act Grant Program, 1994 – 2024

SFEP Implementation Committee, February 21, 2024



San Francisco
ESTUARY PARTNERSHIP



Partnership in Action

A Little Bit of (boat sewage) History

Head = Bow of the boat (and the word for the latrine)



Photo: [Peter Isotalo](#)

Sewage Pumpouts

Everyone needs them but
nobody wants them!



Photo: Natasha Daniels



Effects of sewage in low-flush areas

Photos: Adrien Baudrimont & Name Natasha Daniels

Overview of the Clean Vessel Act Grant Program

- **U.S. Fish and Wildlife Service** grants managed in California by the **CA State Parks Division of Boating & Waterways**
- Funding to states for the **construction, renovation, operation and maintenance** of recreational boater **sewage pumpout stations**
- **Funding for educational information** to the public about environmental pollution and health problems that result from direct sewage discharges into waterways, and the location of pumpout facilities, and for **monitoring pumpout stations** throughout the region
- Funds come from excise taxes on fishing equipment and small engine fuels

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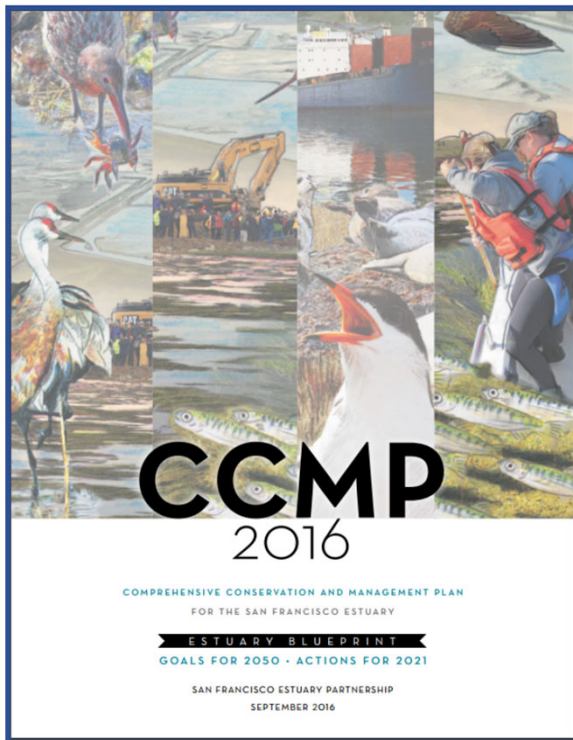
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2016 Estuary Blueprint



CCMP 2016
50

ACTION
26
Decrease raw sewage discharges into the Estuary

Reduce the input of raw sewage into the Estuary by supporting and expanding sewer lateral repair programs and developing resources for marinas and recreational boaters to better manage sewage discharge. Create a mobile application for boaters to find pumpout stations and report repair needs.

TASK 26-1 Review sewer lateral repair ordinances currently in operation around the region, and target 30 percent of the uncovered jurisdictions for assistance in developing and passing a sewer ordinance modeled on existing ordinances such as the Berkeley municipal private sewer lateral (PSL) ordinance and the East Bay Municipal Utility District Regional PSL Ordinance.

BY 2017 Complete review and identify jurisdictions.

TASK 26-2 Produce and promote a white paper that describes existing and potential funding mechanisms for residents to help pay for private sewer line repair and replacement, such as grant programs and financing strategies.

BY 2018 Complete white paper.

TASK 26-3 Publish an industry-supported, technically vetted sewage management manual for marinas.

BY 2019 Complete sewage management manual for marinas.

TASK 26-4 Develop a mobile app for boaters to report broken pumpouts, and for marinas to report pumpout use and operational status; pilot a mobile pumpout program for marinas and recreational boaters in the Oakland Estuary. Install 10 new dockside pumpout systems in marinas to increase the size and availability of the pumpout network.

BY 2017 Launch application and pilot program.

BY 2021 Install 10 new pumpouts.

TASK 26-5 Work with the Bay Area Pollution Prevention Group (BAPPG) to identify new audiences for outreach messages aimed at reducing the flushing of non-flushable items into the sanitary sewer system, which can cause overflows.

BY 2017 Identify new audiences.

BACKGROUND

Most of the sewage systems in the Bay Area are over 50 years old and in poor condition. General wear-and-tear and pressure from tree roots have caused pipes to crack over time. Cracks allow rain water to seep into the sanitary sewer system during storms, which overloads the limited capacity of the treatment plants and leads to illegal discharges of raw sewage into the Bay. An analysis in 2010 found that only 15 out of 115 wastewater agencies in the Bay Area have enacted sewer lateral ordinances. Draft ordinances have been developed by the North Bay Watershed Association and other groups; other jurisdictions can use these as models. Financing for private sewer lateral upgrades can be an impediment to full implementation; alternative finance methods could speed replacement efforts and should be explored.

Another source of raw sewage discharges to the Estuary is recreational boating activity. According to a 2011 California Department of Boating and Waterways report, over half of the vessels in San Francisco Bay have a sewage system on board. These systems can be either discharged overboard into the water, or pumped into a land-based sewage system for treatment. When discharged overboard, this concentrated sewage has dramatic localized effects on water quality, especially in shallow or low-flush areas like marinas and harbors. The Richardson Bay pathogen TMDL, passed in 2009, cites vessel discharges as a significant potential source of pathogen pollution in the Bay. While outreach is a critical component of addressing this issue, a multi-pronged approach to reduce the likelihood of sewage discharge into San Francisco Bay should be undertaken.

This CCMP action supports stronger local oversight of sewer lateral repair. It also supports efforts by marinas and boaters to properly manage sewage, and ensure that land-based sewage disposal facilities for boaters are abundant and functional.

OWNERS

SF Estuary Partnership (Tasks 26-1 through 26-5)

COLLABORATING PARTNERS

Bay Area Pollution Prevention Group, North Bay Watershed Association, SF Bay Regional Water Quality Control Board, various municipalities and wastewater agencies

NEXUS

Actions 1, 23, 30
Goals 1, 3
Objectives a, i

The Early Years

- Outreach materials with clean boating messages
- Clean boating maps of the Bay and Delta
- Honey Pot days with free pumpouts

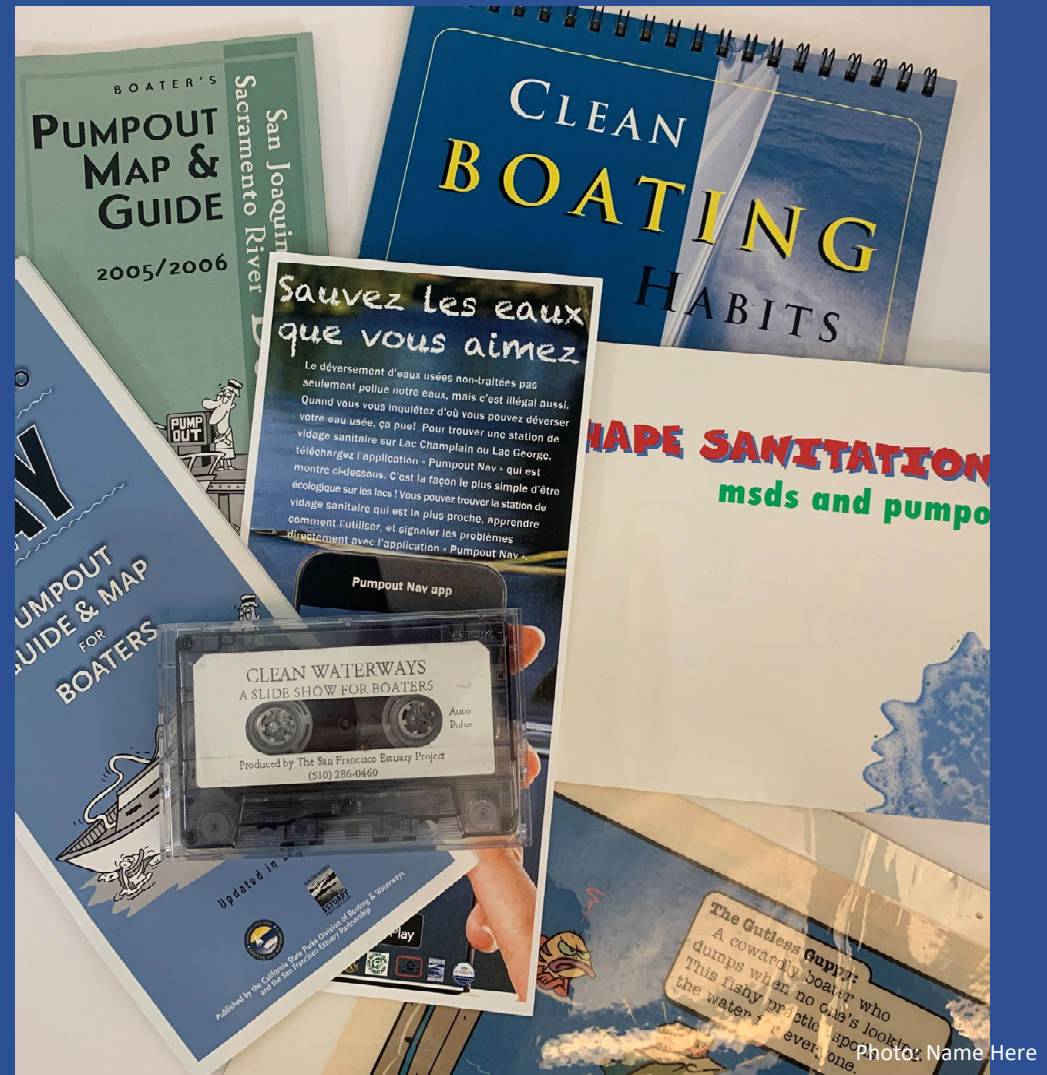


Photo: Name Here





The Mid-Stride Years

- Delta capacity building
- State-drive research
- Monitoring and field work
- Pumpout Nav mobile app



Photo: Natasha Daniels

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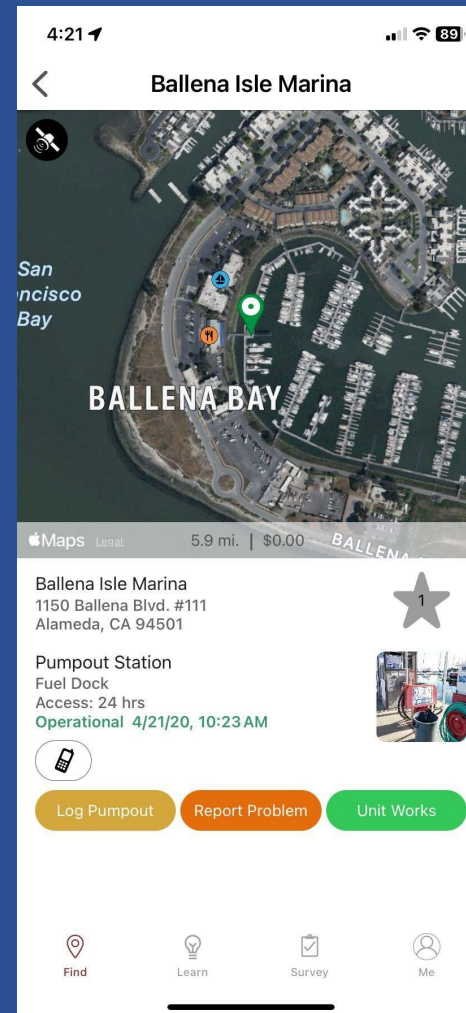
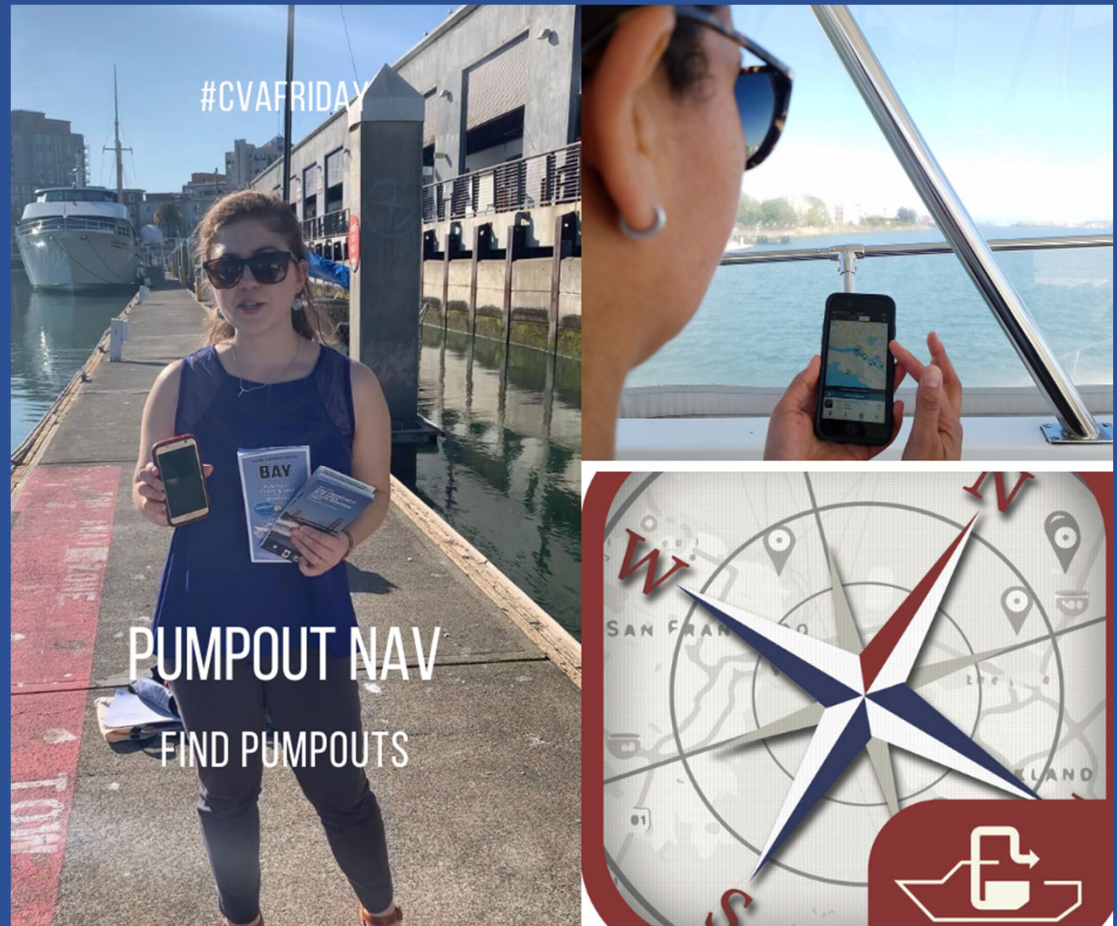


Photo: Natasha Daniels



The Final Years

- Social media
- Videos
- Dockside podcast
- And oh yes...COVID 19





**MONITOR
SEWAGE
PUMPOUTS**

**GIVE AWAY
SEWAGE
MANAGEMENT
TOOLS**



**PRESENT ON
CLEAN
BOATING ALL
OVER THE
ESTUARY**







Alicia Kunz
Essex Marina City
Club, Marina Del
Rey



Eric Chu
Delta Bay Marina,
Isleton



Andrew Rehberg,
Brisbane Marina,
Brisbane



Dockside
PODCAST



Ahoy! Curious about
a day in the life of a
harbormaster?

*Episode 1:
Meet Your
Harbor Master*



Sunsetting the CVA Program

- Thoughtful decision by the team
- Program administration
- Changing priorities



Photo: Natasha Daniels

The Takeaway

- Pleased to have contributed so long and worked with so many partners, both locally, regionally and nationally
- Moving on is hard to do...



Photo: Natasha Daniels



Partnership in Action



Thank You!

