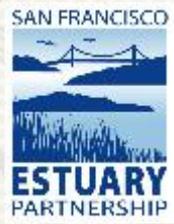




# Pumpout Nav

## Revolutionizing CVA's Outreach & Monitoring Abilities

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The Bay Foundation



# Overview

- ❖ California Education and Outreach CVA Program
- ❖ Why An App
- ❖ What is Pumpout Nav
- ❖ Next Steps



# Clean Vessel Act Programs in California



# Clean Vessel Act Programs in California

- ❖ National Estuary Programs
- ❖ 15+ years partnering with the state CVA Program
- ❖ Two components:
  - ❖ Education & Outreach
  - ❖ Pumpout Monitoring



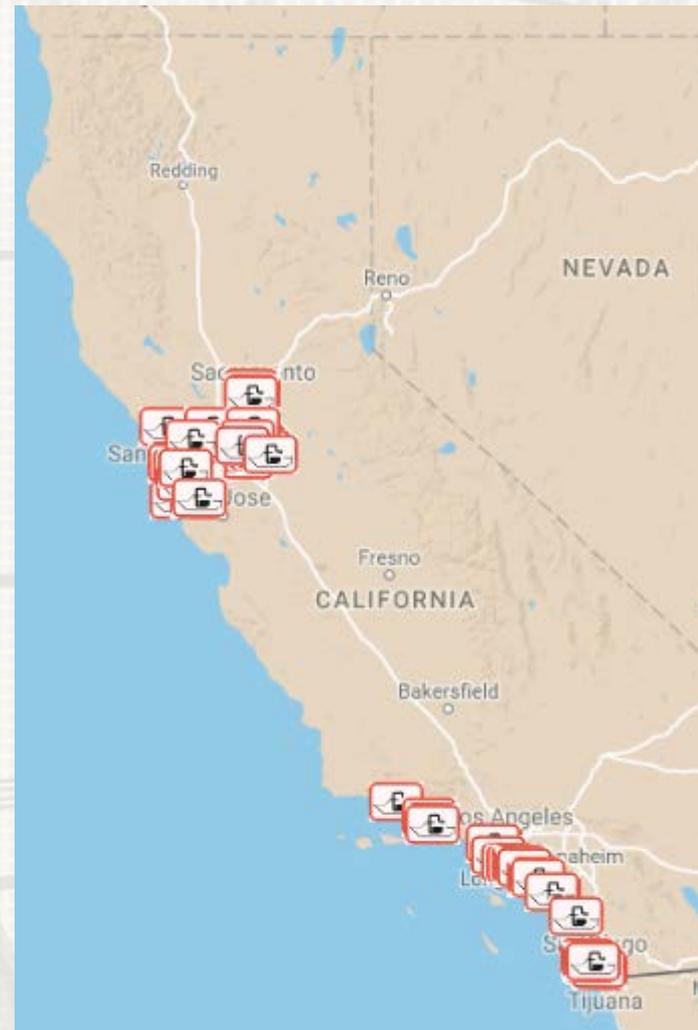


# Pumpout Monitoring

159 pumpouts

120 marinas

Monitored on a quarterly basis in  
Northern and Southern California



# Pumpout Monitoring Purpose

- ❖ Ensure equipment is operational for boaters
- ❖ Track general condition and evaluate performance of pumpout stations
- ❖ Assist facilities in meeting grant requirements
- ❖ Promote the installation and proper maintenance of pumpout stations
- ❖ Maintain relationships with marinas



# Pumpout Monitoring Parameters

- ❖ Signage
- ❖ Condition of parts
- ❖ Hour counter reading
- ❖ Vacuum measurement
- ❖ Time it takes to pump 5 Gallons of water



# Why an App?

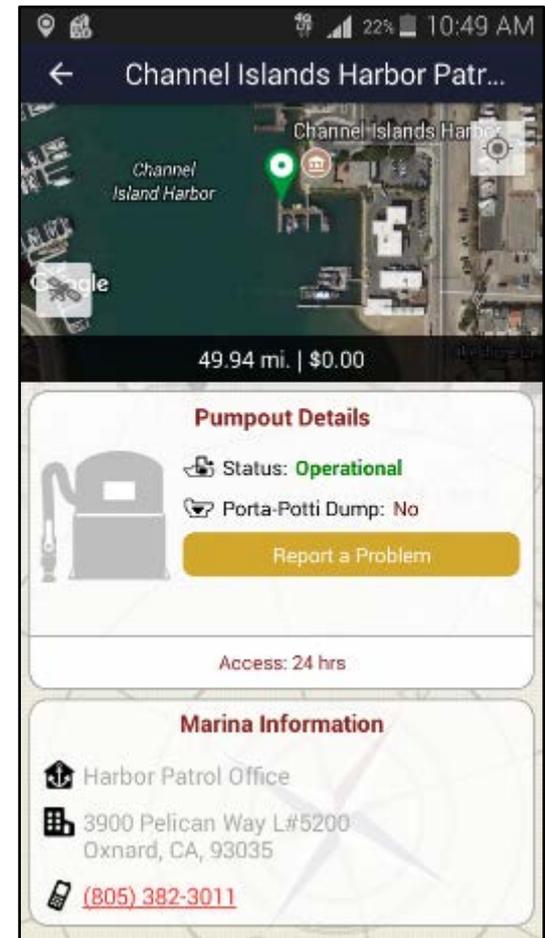
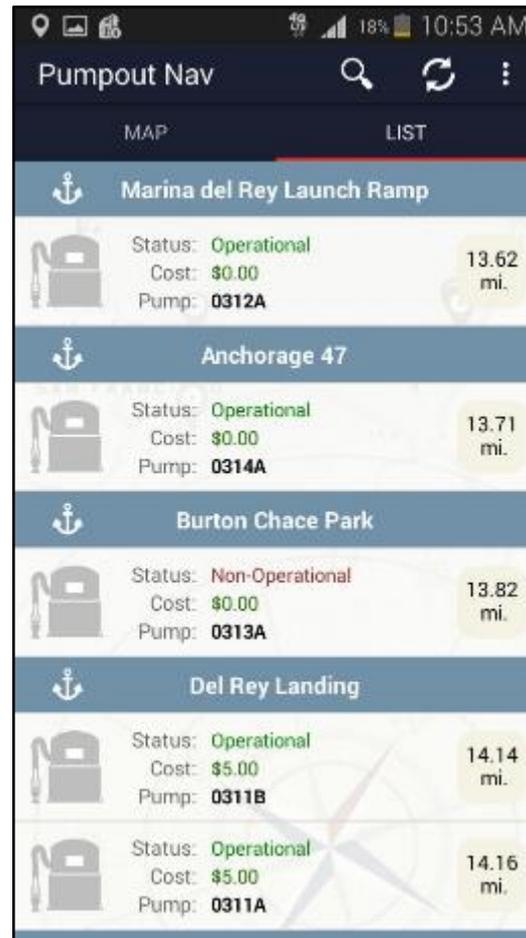
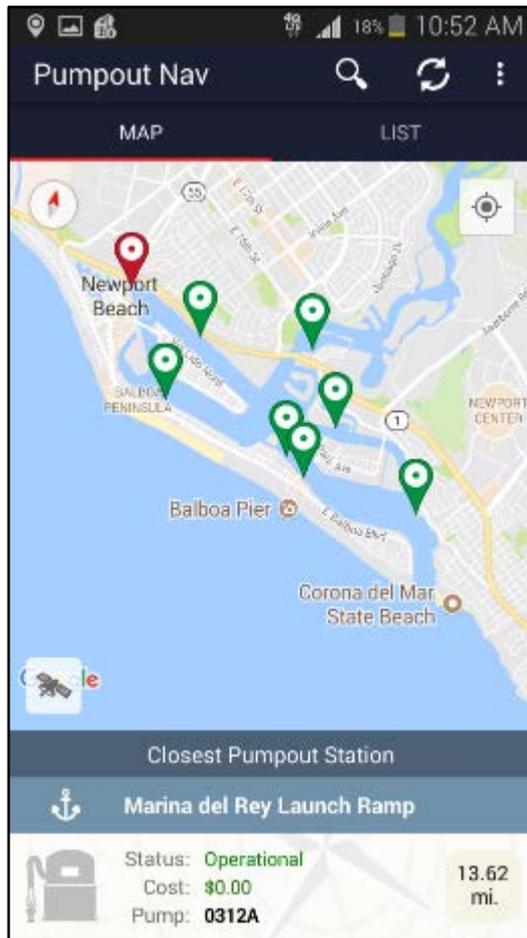
- ❖ SIMPLIFY the surveying process

How we used to do it:



- ❖ STREAMLINE reporting between CVA regions
- ❖ CONNECT to our audience

# Using Pumpout Nav as a Boater



# Using Pumpout Nav as a Boater

Report an Issue

King Harbor, Harbor Patrol

**Let Us Know!**

Something wrong with this pumpout?

Pump Number: 0315A ▾

**Tap on the Issue(s)**

No Power	Low/No Vacuum
Leaking	Broken Part(s)
No Access	Photo

**Details (optional)**

More details you wish to add? If you are not at the Pumpout location anymore, please specify which Pumpout station you are reporting on.

CANCEL SEND

Information

**Pumpout Information**

**HOW to Pumpout**

Watch a "how to" video and get step-by-step directions.

**WHY Pumpout**

Learn why you should pumpout your boat.

**WHAT'S in My Boat**

Learn about the pumpout device in your boat.

**Don't Feel like Pumping?**

Find mobile pumpout services in your area.

**The LAW Says...**

Learn more about the Rules and Regulations.

Have Questions? CONTACT US

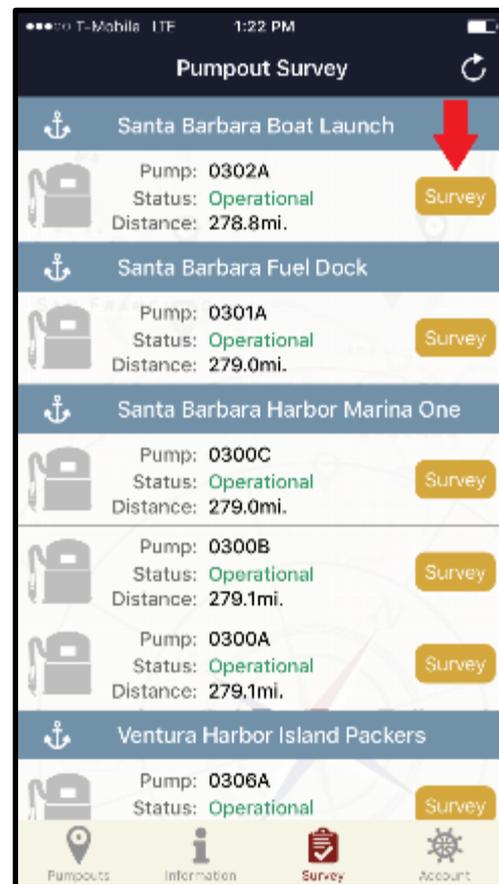
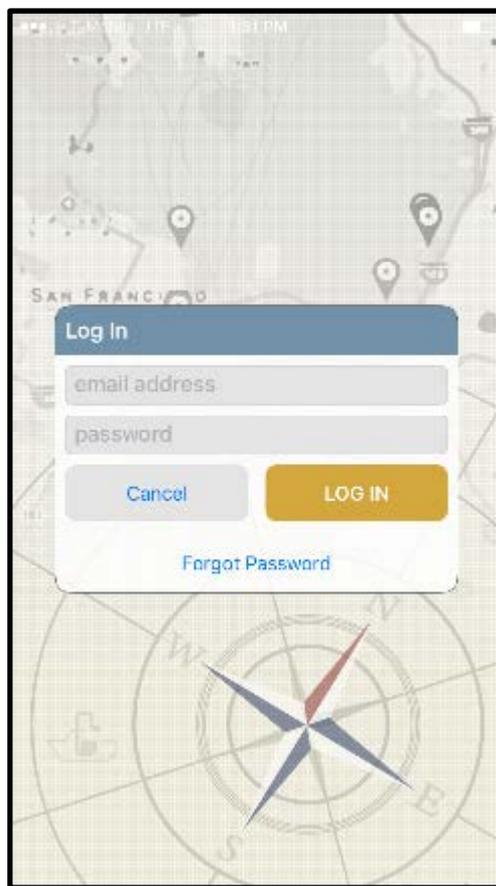
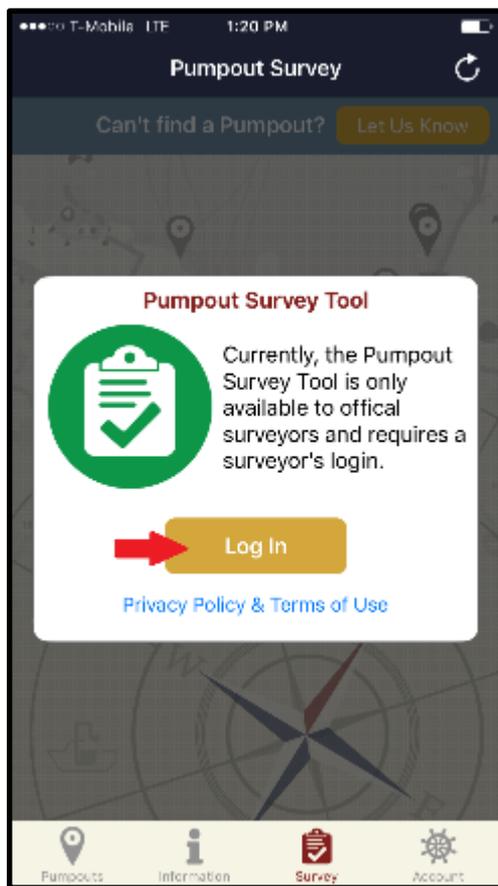
HOW to Pumpout

**How to Pumpout?**

Watch this video, or follow these 11 steps:

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 pump in the holding tank system.

# Using Pumpout Nav for Monitoring



# Using Pumpout Nav for Monitoring

Measurements Cancel

Pump: 0302A  
Santa Barbara Boat Launch

**Meter**

Meter Operational?  Yes

Meter Reading

**Vacuum**

Vacuum Operational?  Yes

Vacuum Reading (inHg)

5 gal Pump Time (sec.)

**NEXT**

Parts Cancel

Pump: 0302A  
Santa Barbara Boat Launch

**Condition** ?

How does the Motor Sound?

Hose  
 Missing  Replace  Used  New

Nozzle  
 Missing  Replace  Used  New

Sight Glass  
 Missing  Replace  Used  New

Backflow Flap  
 Missing  Replace  Used  New

Pedestal  
 Missing  Replace  Used  New

Ball Valve  
 Missing  Replace  Used  New

On/Off Buttons

**NEXT**

Signage Cancel

Pump: 0302A  
Santa Barbara Boat Launch

**CVA Status**

Under CVA Grant:  Yes

Last Grant Year:

**Signage**

Universal Pumpout Sign  Yes

State Credit  Yes

Instructions  Yes

Hours of Operation  No  Yes

Cost Signage  No  Yes

Contact for Problems  Yes

On/Off Button  Yes

**NEXT**

Summary Cancel

Pump: 0302A  
Santa Barbara Boat Launch

**Pumpout Summary**

Operational

Additional Information

**Add a Photo**

Add a photo to help further describe the condition of the pumpout.

**SUBMIT SURVEY**

# Where is My Data?

The screenshot displays the 'Pumpout Nav Admin Platform' dashboard. The top navigation bar includes the user name 'Victoria Gambale'. The left sidebar contains menu items for Information, Reports, and Users. The main content area features three summary cards: Operational / Total Pumpouts (63/70), Total Boating Facilities (52), and Total Surveys (335). Below these are three data tables: 'Pumpouts with Problems Reported', 'Non-operational Pumpouts - Top 10 Most Recent', and 'Surveys and Edits - Top 10 Most Recent'. A 'Pumpout Map' on the right shows a satellite view of the Los Angeles area with green location markers.

**Operational / Total Pumpouts**  
63/70  
View Details

**Total Boating Facilities**  
52  
View Details

**Total Surveys**  
335  
View Details

**Pumpouts with Problems Reported**

Boating Facilities	Pumpout No.	Pumpout Location	Date Reported
OC Harbor Patrol	0331A	Public Harbor Patrol Dock	02/27/2018

**Non-operational Pumpouts - Top 10 Most Recent**

Boating Facilities	Pumpout No.	Pumpout Location	Date Reported
Shoreline Marina, Public Dock	0317B	Mid Unit	
Shoreline Marina, Public Dock	0317C	Near Unit	
Huntington Harbor Yacht Club, Fire Department	0323A	Left of Fire Dept Building	
Lido Marina Village	0324A	End of Dock	
Balboa Bay Club	0328A	End of Dock	
Pearson's Marine Fuel	0346A	Fuel Dock	

**Surveys and Edits - Top 10 Most Recent**

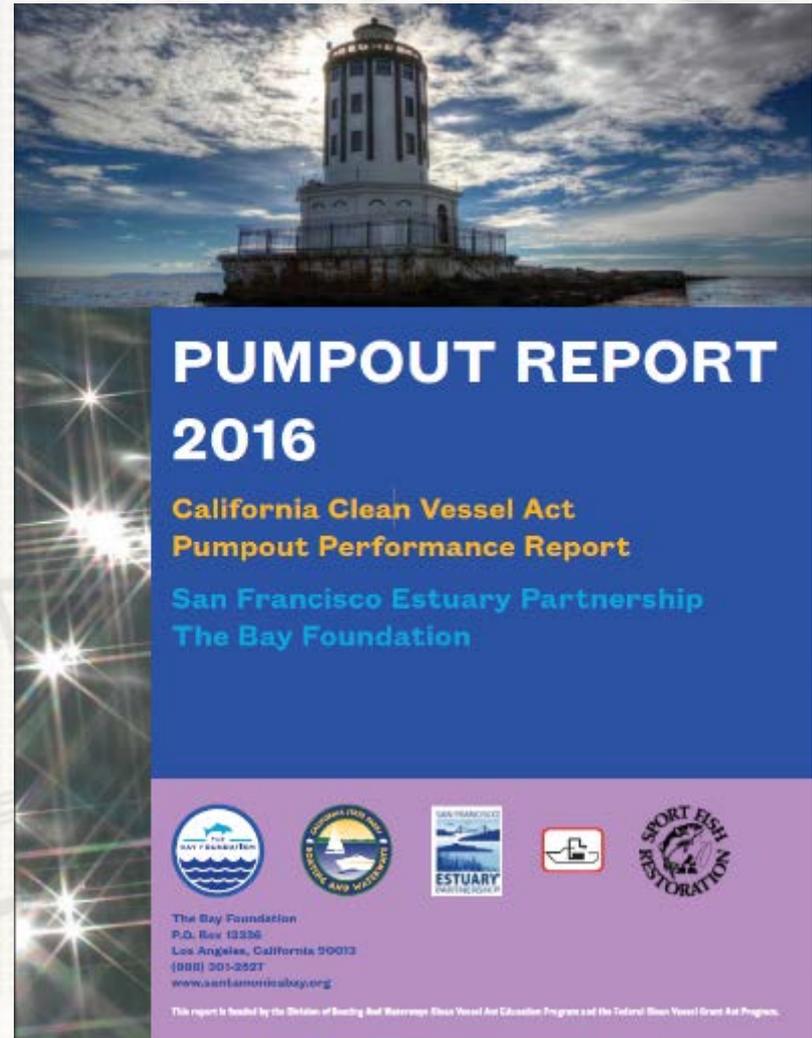
Survey Id	Boating Facility	Pumpout No.	Pumpout Location	Date Updated
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**Pumpout Map**

# Pumpout Report

What is the likelihood a boater will have a positive experience at a given pumpout?

A resource for boaters, marina managers, and partners.



# Next Steps

- ❖ Auto-email marina office
- ❖ Reporting Tools
  - Issues reported with photos and actions taken
  - Metrics collected
  - Auto calculate the Usability %
- ❖ Expansion
- ❖ Boater account with pumpout log



# THANKS!

## Any questions?

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