

# Oil Pollution Prevention at Marin County Area Marinas

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**ZERØWASTEMARIN**  
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# Presentation Outline

- **Introduction**
- **Overview of the San Francisco Bay**
- **Marin Coastline & Maritime**
- **The O.A.E.P.**
- **Program Challenges**
- **Summary & Closing**

# Quick Overview of the San Francisco Bay

- Extensive Maritime Use

- One of 6 primary deep water trade Ports on Western Seaboard (Oakland)
- Largest port between Portland & Los Angeles
- Formerly home to 10 extensive shipyards used to build thousands of combat craft during WWII
- Commercial & Private fishing craft traversing fresh water of Sacramento River and salt water of Pacific Ocean
- Coastline / Ocean Access shared by 10 California Counties



- Oil Spills

- Arizona Standard & Oregon Standard Collision, 1971
  - Two Ships collided with each other in dense fog
  - 800,000g Oil spilled
  - Largest spill in Bay history
  - 4,300 sea birds rescued, 300 fit for release
  - Standard Oil spent \$1M for clean-up
- Cosco Busan, 2007
  - Ship collided with Bay Bridge, between San Francisco and Oakland
  - 53,000g Bunker fuel spilled
  - 26 miles of coastline contaminated
  - 2,000 sea birds killed
  - Coast Guard reported more than \$80M in damages and economic losses



# Marin Coastline



- 4<sup>th</sup> smallest county in California (by land size)
- 72 Miles of Coastline
- Marine Protected Areas of Marin County
  - Estero Americano State Marine Recreational Management Area
  - Estero de San Antonio State Marine Recreational Management Area
  - Point Reyes State Marine Reserve & Point Reyes State Marine Conservation Area
  - Estero de Limantour State Marine Reserve & Drakes Estero State Marine Conservation Area
  - Duxbury Reef State Marine Conservation Area
- National Protected Areas (Marine)
  - Golden Gate National Recreation Area (part)
  - Marin Islands National Wildlife Refuge
  - Point Reyes National Seashore
  - San Pablo Bay National Wildlife Refuge
  - Gulf of the Farallones National Marine Sanctuary



# Marin County Area Marinas

## Public Boat Access

- Miller Boat Launch (Bay side)
- Black Point Boat Launch (Bay Side)



## Private Boat Access / Harbors

	<u>Location</u>	<u>Slips</u>
1	Clipper Yacht Harbor	800
2	Sausalito Yacht Harbor	600
3	Loch Lomond Marina	517
4	Richardson Bay Marina	220
5	Paradise Cay Yacht Harbor	195
6	San Francisco Yacht Club	185
7	Schoonmaker Point Marina	161
8	Marina Plaza Harbor	103
9	Pelican yacht Habor	90
10	Corinthian Yacht Club of San Francisco	75
11	Sausalito Shipyard & Marina	70
12	Travis Marina	70
13	Tomales Bay Resort	55
14	Libertyship Marina	50
15	Sausalito Marine Harbor	50
16	Galilee Harbor	30
17	Fisher-Smith Boatworks	
18	Lawson's Landing	
19	Lowrie Yacht Harbor	
20	Marin Yacht Club	
21	Marine Harbor	
22	San Rafael Yacht Harbor	

# The OAEP

- The What?

- Oil Absorbent Exchange Program

- Gratis program for Marin County Residents & watercraft owners in order to promote and encourage environmental awareness & waste handling practices on private watercraft through partnerships with local marina operators.

- Initial Study

- CONTRACT WITH MARINE & COASTAL POLICY/ENVIRONMENTAL CONSULTANT
  - DETERMINE JUSTIFICATION
  - EVALUATE COSTS
  - EVALUATE FEASIBILITY
  - EVALUATE UTILITY

- Understand your audience,

- **Boater Age:** About half (51 - 56%) of all boaters surveyed were age 50 or older and about three-quarters (73 - 77%) were age 42 or older.
  - **Oil Change Behavior :** Almost half of boaters surveyed (~48%) changed their own boat oil (i.e. Do-It Yourselfers, or DIYs), and about one half of those (53%) said they usually change it at home.
  - **Oil Leaks:** Across all boaters surveyed, (96 - 97% )said their boat leak oil most of the time or every time they go out on California waters

\*2009 Boating & Water Ways Survey of ~5,700 boaters, statewide



# The OAEP

Prevent Oil Pollution By Using An  
**OIL ABSORBENT PILLOW**  
On Your Boat at All Times



**ATTENTION MARIN COUNTY BOATERS**

**Free Oil Absorbent Distribution and Used Absorbent Disposal Sites are Now Available**

See **FREE** drop-off & pick-up Marin locations other side

- Outreach / Partnership Efforts
  - Marina Owner / Harbormaster Outreach
  - Marin County Parks
  - Calif. Coastal Commission / Dept. Boating & Waterways
    - Dock Walkers
    - West Marine

## Regulations & Permitting

- Marin County CUPA

**THE ZERO WASTE MARIN OIL ABSORBENT EXCHANGE PROGRAM** now offers a safe, legal and convenient method for Marin County boaters to reduce oil pollution in local waterways. Pick up your free oil absorbents\* and dispose of used absorbents at the following *Marin County Boat Oil Absorbent Exchange Program* locations:

**LET'S KEEP CALIFORNIA WATERWAYS CLEAN**  
by using an  
**OIL ABSORBENT PILLOW**  
in the bilge to capture leaks from your boat engine.



### Clipper Yacht Harbor

(on the fuel dock)

310 Harbor Drive, Sausalito

### San Rafael Yacht Harbor

557 Francisco Boulevard East

Used oil absorbents are **HAZARDOUS WASTE**—*do not toss them in the trash*. If you are not near one of these absorbent exchange sites or need to dispose of hazardous waste other than oil absorbents call **800-662-4374** or go to [www.zerowastemarin.org](http://www.zerowastemarin.org) to find your nearest hazardous waste disposal site.

\*Oil absorbent sheets and pillows are both available at no cost. For pillows go to the Marina Office.





# The OAEP

## How it works

- Agreement with Marina to promote program and communicate disposal and supply needs to ZWM Staff. Outlines program duties for both parties.
- ZWM (via environmental consultant overseen by CUPA) provides training & safety handbook to Marina employees.
- ZWM Staff provides Marina the absorbents who then disseminate to boaters.
- Boaters use pillows in boat bilges, absorbent sheets to reduce spills during fueling.
- Marina collects contaminated supplies, secures in 55g collection drum.
- ZWM contracted hauler removes collected waste absorbents from Marina, recycles where applicable.



### • Benefits

- Frontline response to oil pollution in the water.
- Increases awareness about oil pollution from boats.
- Low risk of oil incidents. Resources are likely to reduce oil incidents.
- Can be modified to be nearly self sustaining though the use of a fee system at absorbent dispensaries.
- Provides a legitimate, tangible, convenient resource for boaters.

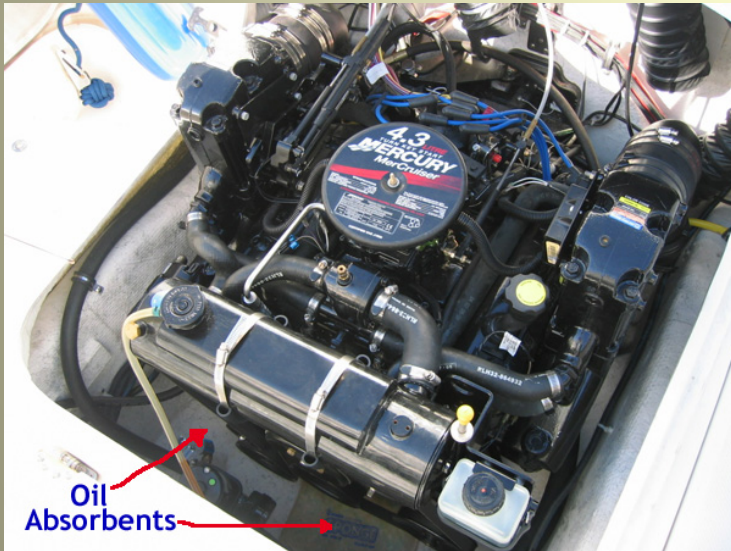


# Absorbent Recycling Process

1.



2.



3.



# OAEP Challenges

- Challenges
  - JPA / Staff new to the OPP Program
    - Hand-off from previous grantee (County stormwater agency)
    - Familiarity with maritime topics
  - Regulations & Compliance
    - CUPA
    - Permitting requirements for marina to collect oily waste products
  - Historical Attempts of Program Implementation
    - Harbormasters impatient as implementation of a previous OAEP had hit a number of delays in the past
  - Partnerships & Agreements
    - Harbormasters not inclined to enter into an 'agreement' to participate
    - Harbormasters afraid of legal ramifications should a spill occur, liability issues, insurance costs

# Summary

- Lessons Learned

- Regardless of how functional the program & resources may be, not every opportunity is well received, and adopted by the public
- Each situation is different
- In this situation, regulations have lead businesses to be cautious of further intervention by the public sector
- Keep it
  - Simple, VERY VERY SIMPLE.
  - Tangible
  - Convenient
  - Repeatable



Thank you

