



# MARINA OIL RECOVERY CENTERS

City of Los Angeles  
April 2006



# Outline

- Facts
- Need/Problem
- Remedy-Program elements
- Program Objectives
- San Pedro Marina Pilot
- Other Facilities
- Data
- Challenges
- Starting Point to Promote Re-refined oil

## Facts...

- "Oil is toxic to aquatic organisms in concentrations as low as 0.1 to 0.5 parts per million. That's just a pint of oil in 250,000 gallons of water."
- "Each year, small spills and leaks from routine boat operation and maintenance discharge 137 million gallons of oil on the world's navigable waters."

# Need /Problem

- Until Recently, the City's Used Oil Recycling Program was geared to automobile vehicle DIYs, and did not provide a recycling opportunity for boaters.
- Abandoned oil/or improper disposal at marinas, created environmental concerns for marina operators.

# Solution

- Establish Marina Oil Recovery Centers.
- Launch a boater education campaign

# Program Objectives

- Bring the convenience of recycling used oil, filters, and absorbent pads to boaters, closing the gap in recycling services for all segments of the City's diverse communities in a cost effective manner.
- Minimize/Eliminate improper disposal at marinas.

# Over 19 Marinas In The Harbor Area





San Pedro  
Marina

All Larson's  
Marina

Cabrillo Beach Yacht Club

Holiday Harbor, Cabrillo Marina

California Yacht Marina, Cabrillo Marina

Cabrillo Way Marina

# Site Selection- Pilot

- There are over 19 Marinas of various sizes in the Harbor Area with the number slips from 100 to 900
- San Pedro Marina selected for pilot project. Evidence of oil stain in the parking lot, and oil containers in trash bin.

# Oil Recovery Center includes at a minimum...

- An oil Collection and storage tank
- A drum for filters
- A drum for absorbent pads
- A secondary containment platform to house all equipment
- Sufficient signage

# Collection Site Criteria....

- Well Visible
- Conveniently close to the dock, but..
- Within a safe distance from the water and storm water catch basins

# San Pedro Marina







# Secondary Containment...

- Select an area with a 7x11 ft rectangular dimension
- Cut existing asphalt , remove soil
- Re-grade to 95% compaction
- Place forming with #4 rebar spaced 10 inches in each direction
- Design with berm with 110% volume capacity of the storage tank
- Allow ONE ft wide walkway
- Pour Concrete and coat with a non-porous sealant



# Other Marinas

- Program expansion included 8 more marina oil recovery facilities in the Harbor area. They were established in two phases.
- Total Cost \$157,000 funded through the Used Oil 7<sup>th</sup> Cycle opportunity grant.

# Other Marinas.....

## Phase I

<u>Marina</u>	<u>Number of Slips</u>
Newmarks Yacht Centre, Berth 204, Wilmington	240
California Yacht Marina, Berth 202, Wilmington	266
California Yacht Marina Cabrillo, Berth 31, San Pedro	420
California Yacht Marina Cabrillo, Berth 33, San Pedro	460

## Phase II

Cabrillo Beach Yacht Club, San Pedro	157
Cabrillo Way Marina (site 1), San Pedro	350
Cabrillo Way Marina (site 2), San Pedro	300
Holiday Harbor Marina, Berth 201, Wilmington	169

# Other Marinas...



City is in the process of installing rain protection aluminum shelters for all marinas



# Boater Education



*Boater education event conducted jointly with the Santa Monica Bay Restoration Project*

# Survey card

The following survey is strictly for the purpose of gathering data in order to better serve your marina.

Size of your boat: \_\_\_\_\_ ft.      Hours of boating before changing oil: \_\_\_\_\_ hours

Volume of oil generated from each oil change: \_\_\_\_\_ gallons

Your monthly average hours of boating: \_\_\_\_\_ hours



- Good response,
- Data not conclusive

# Challenges ....

- After hour drop off at Newmarks Marina
- Importance of Secondary Containment



# Clean up



# PROMOTING RE-REFINISHED OIL

## MOST CRITICAL BARRIERS

- DIY Perception
- Availability to purchase

# Marinas are good starting point

- Perception can improve by persuasion through direct and repeated contacts. Marinas provide opportunity for repeated contact with same individual Boaters.
- Most marinas have a mini market where re-refined oil can be made available much easier than auto part stores

# Special recognition

- This project has been lead and implemented by SRCRD of the Bureau of Sanitation and with the cooperation and partnership of the Marina operators, the California Integrated Waste Management Board, the Santa Monica Bay Restoration Foundation, and the City's Harbor Department. We appreciate their Contribution.



Questions or Comments

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