



MARINA DEL REY HARBOR TOXIC POLLUTANTS TMDL



1. Toxics/Copper

2. Bacteria (Basins D, E & F)

3. Trash

1. **Toxics/Copper**
2. **Bacteria** (Basins D, E & F)
3. **Trash**

TOXICS/COPPER TMDL

- Toxic Pollutants TMDL – First became effective in 2006 and was revised by the Regional and State Boards in 2014, approved by EPA in 2015



TOXICS/COPPER TMDL

- Revisions included a finding of copper impairment and a set Load Allocation for copper in the water column
- To meet the TMDL targets, there must be an 85% reduction of copper leaching from boat hull paints by 2024.
- The TMDL also requires sediment remediation by 2029.



KEY SOURCES OF DISSOLVED COPPER IN THE MARINA

Passive Leaching of Hull Paint



Hull Cleaning

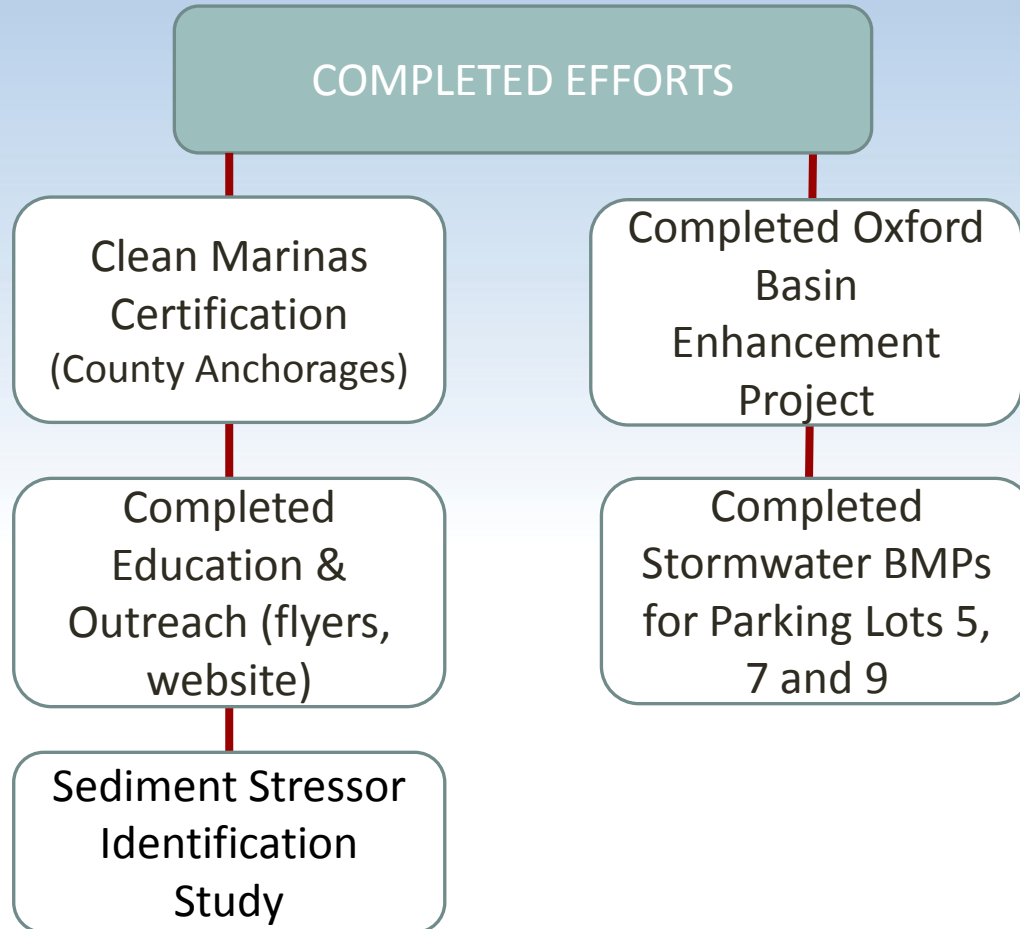


KEY SOURCES OF TOXIC POLLUTANTS IN THE SEDIMENT

Storm Drains



EFFORTS TO ADDRESS TOXICS/COPPER TMDL



EFFORTS TO ADDRESS TOXICS/COPPER TMDL

CURRENT/ONGOING EFFORTS

Boat Lift Program

Hull Cleaning
Ordinance

Clean Marinas
Mentoring Program

Ongoing Education
& Outreach (dock
walking)

NEW EFFORTS

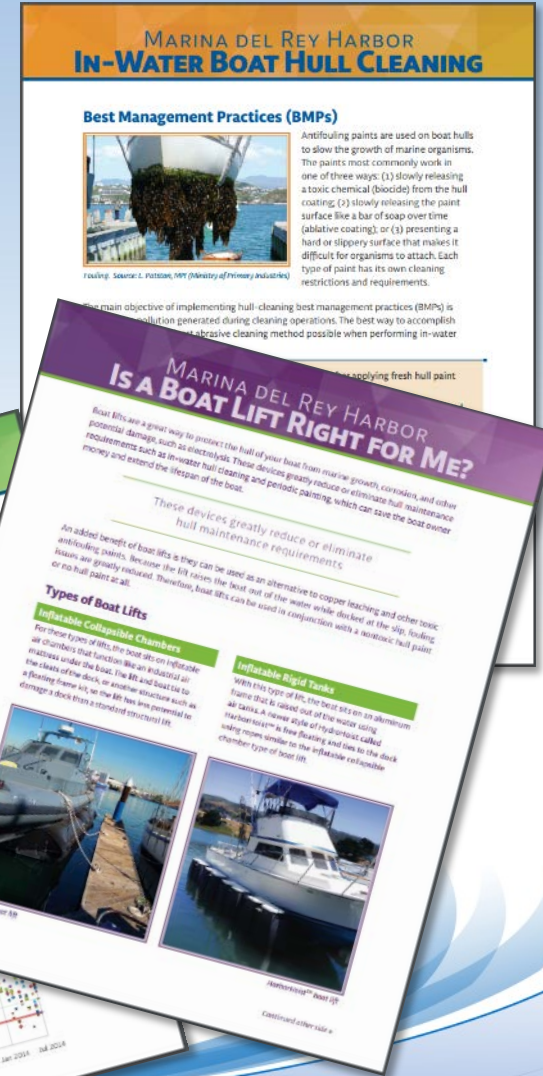
Site Specific
Objective Study

Pilot Paint Program

Contaminated
Sediment
Management Plan




TOXICS/COPPER TMDL: EDUCATION & OUTREACH



HTTP://BEACHES.LACOUNTY.GOV/WATER-QUALITY/

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ENVIRONMENT

WATER QUALITY

MARINA DEL REY HARBOR REGULATORY COMPLIANCE



NPDES COMPLIANCE

[Enhanced Watershed Management Plan](#)
[Coordinated Integrated Management Plan](#)
[Clean Marinas](#)


[Absorbent Pad Exchange](#)
[Low Impact Development Standards](#)
[Green Infrastructure](#)

Toxics TMDL
[TOXICS TMDL INFO](#)

Bacteria TMDL
[BACTERIA TMDL INFO](#)

Trash TMDL
[TRASH TMDL INFO](#)

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WATER QUALITY

Toxics TMDL



Marina del Rey Harbor is currently designated as an "impaired" water body on the 303(d) list issued under the 1972 Clean Water Act. The Clean Water Act established regulations and mechanisms to clean up the Nation's polluted waterways, which included provisions for Total Maximum Daily Loads (TMDLs). A TMDL puts a limit on the amount of pollutant a receiving water body can accept in order to protect its beneficial uses. In the Marina del Rey Harbor, a Toxic Pollutants TMDL was developed by the Los Angeles Regional Water Quality Control Board (Regional Board) to set limits on contaminants entering the harbor water column and sediment. The contaminants addressed in the Toxic Pollutants TMDL are summarized in the table below.

Media	Contaminants
Sediment	Copper, lead, zinc, chlordane, PCBs, total DDTs, and p,p'-DDE
Water Column	Dissolved copper and PCBs
Fish Tissue	Total PCBs

Dissolved copper is a major issue in the Marina del Rey Harbor as well as other marinas along the coast. The leading cause of dissolved copper pollution in marinas is from copper-based antifouling paints. Antifouling paints are used to prevent marine growth on surfaces, particularly boat hulls, yet the majority of these antifouling paints contain copper that leaches into the surrounding water causing pollution issues. The Toxics TMDL regulates the amount of copper going into the harbor.

The TMDL is enforced through the assignment of waste load allocations and load allocations by the Regional Board to different permittees. The permittees named in the TMDL include the County of Los Angeles, the City of Los Angeles, the City of Culver City, as well as the anchorages and boat owners in the Marina del Rey Harbor.



TOXICS/COPPER TMDL: UPCOMING BMPS

Hull Cleaning Ordinance
(Going to the Board of
Supervisors in March)

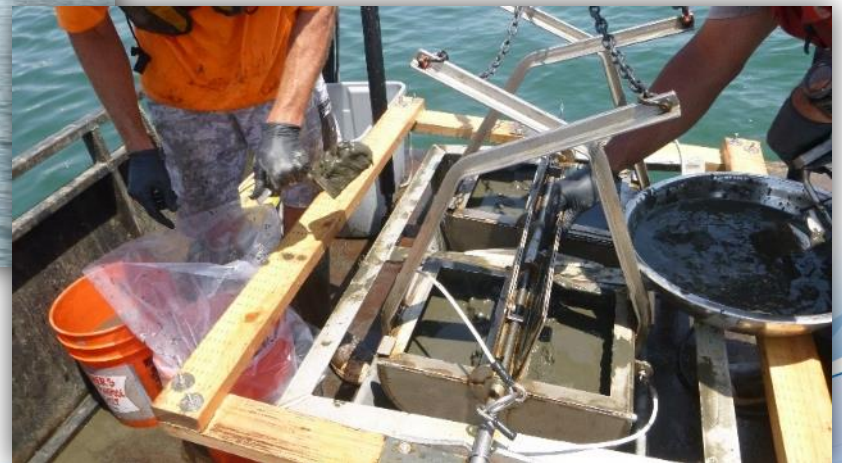


Boat Lift Program



SEDIMENT STRESSOR IDENTIFICATION STUDY

- Completed and submitted to the Regional Board in December 2016



Oxford Basin Project



- Water Quality Components constructed 12/31/15
- Additional Features constructed 5/26/16

Marina del Rey - Parking Lot 9



- Water Quality Components constructed 12/31/16
- Additional Features constructed 3/15/17

STATE IMPLEMENTATION POLICY (SIP) JUSTIFICATION REPORT

- First Submitted to Regional Board on August 20, 2015
- Received Comments from the Regional Board on September 21, 2015
- Resubmitted Report on January 28, 2016
- Received Additional Comments on December 19, 2016
- Public Meeting on SIP August 23, 2017



SIP REPORT APPROVED SEPTEMBER 12, 2017!



Los Angeles Regional Water Quality Control Board

Daniel Lafferty
Division Head
Los Angeles County
Department of Public Works
Watershed Management Division
900 South Fremont Avenue
Alhambra, CA 91803

September 12, 2017

CONDITIONAL APPROVAL TO PROCEED WITH STUDY TO DEVELOP SITE-SPECIFIC OBJECTIVES FOR DISSOLVED COPPER IN MARINA DEL REY HARBOR

Dear Mr. Lafferty:

The Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) received the "Revised State Implementation Policy Justification Report, Site-Specific Objective for Dissolved Copper to Support Implementation of the Marina del Rey Toxics Total Maximum Daily Load" (SIP Justification Report) from the Los Angeles County Department of Public Works (County) on April 5, 2017. We acknowledge that this report serves as the County's written request to pursue a site-specific study pursuant to section 5.2 of the State Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP). Los Angeles Water Board staff posted the SIP Justification Report on the Los Angeles Water Board's website for public review on July 10, 2017. Eleven stakeholders submitted letters regarding the SIP Justification Report. Pursuant to section 5.2 of the SIP, Los Angeles Water Board staff held a public workshop on August 23, 2017 to consider the County's request to initiate development of a site-specific objective based on the data, information and reasoning provided in the SIP Justification Report.

After considering the SIP Justification Report, comment letters, and input during the public workshop, Board management has determined that the County may initiate the study to develop a site-specific objective for dissolved copper in Marina del Rey Harbor under the condition that the County proceeds with all four implementation actions detailed in section 3.3.3.2 of the SIP Justification Report in a timely fashion and concurrently with the study. The County needs to present the Los Angeles Water Board with ongoing evidence that it is diligently implementing each of these actions. In particular, the implementation actions include a pilot program to convert 100 boats to non-biocide hull paint. The County must submit monthly reports to the Los Angeles Water Board detailing the progress of this program, including the number of boats participating, the type of hull paint used on each boat, the frequency of hull cleaning for each boat, and an evaluation of each hull paint relative to its use in Marina del Rey Harbor. The program must place non-biocide hull paint on a minimum of 25 boats within six months of the date of this letter. The pilot program must have a minimum of 100 boats fully participating within two years of the date of this letter. The boats participating in the non-biocide hull paint program

IRMA MUÑOZ, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

320 West 4th St., Suite 200, Los Angeles, CA 90013 | www.waterboards.ca.gov/losangeles

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Caring for Your Coast

NEW EFFORTS TO IMPLEMENT TMDL

- Site Specific Objective Study
- Pilot Paint Program
- Contaminated Sediment Management Plan



GOALS OF THE SSO STUDY

- Determine the copper threshold that is protective of marine life in MdRH in a scientifically sound manner
- Develop implementation details needed to support consideration of SSO adoption into TMDL and Basin Plan



PREVIOUS CU SSO STUDIES

- Site water quality shown to affect copper toxicity in multiple studies
 - Los Angeles River and tributaries
 - Calleguas Creek and Malibu Lagoon
 - San Francisco Bay
 - San Diego Bay
- TMDLs and Basin Plans modified in several cases
 - Public process with external scientific review



PILOT PAINT PROGRAM



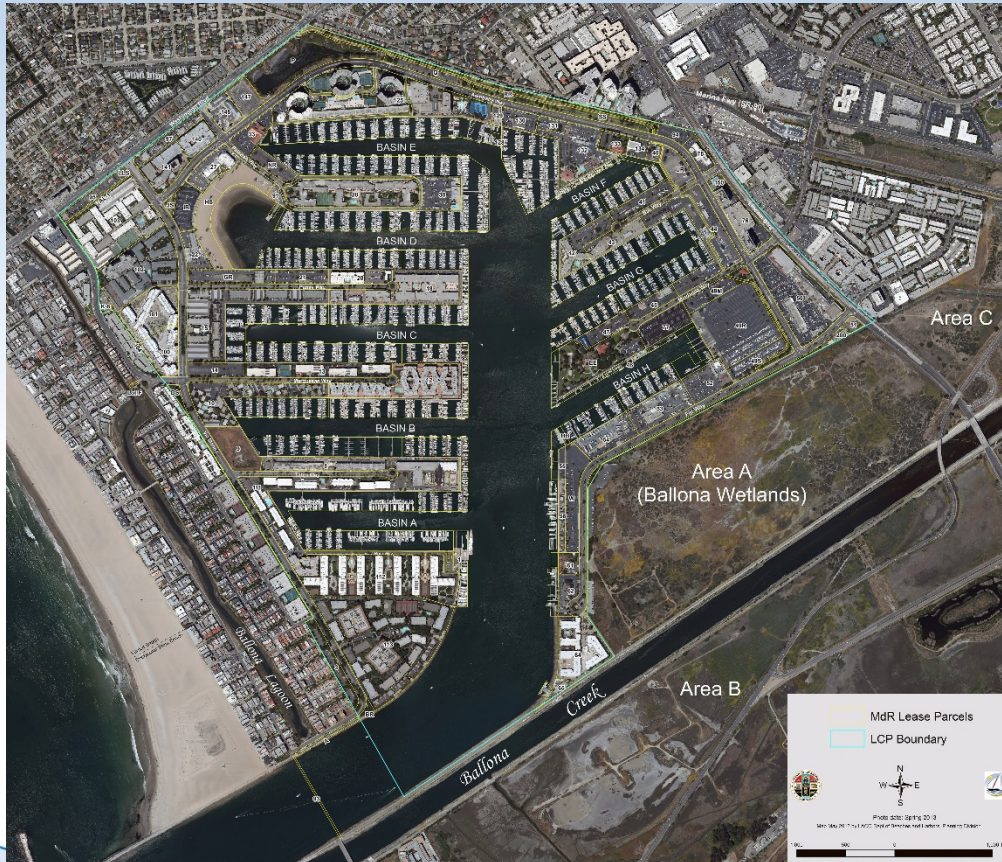
- SLP requires 25 boats to be painted with non-biocide paint within six months and 100 boats to be painted within two years

PILOT PAINT PROGRAM

- Will offer financial incentives to boaters who are willing to switch to non-biocide paints
- Will involve different types of boats that are used differently (leisure sailors, racers, fishing boats, liveaboards, work vessels)
- Will include water sampling



CONTAMINATED SEDIMENT MANAGEMENT PLAN



- Currently Developing Strategies to Meet Target Date
- Due to the Regional Board December 31, 2019

MARINA DEL REY TOXIC POLLUTANTS TMDL

Questions?

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