

Marina del Rey Harbor Toxic Pollutants TMDL Revision



Shana Rapoport



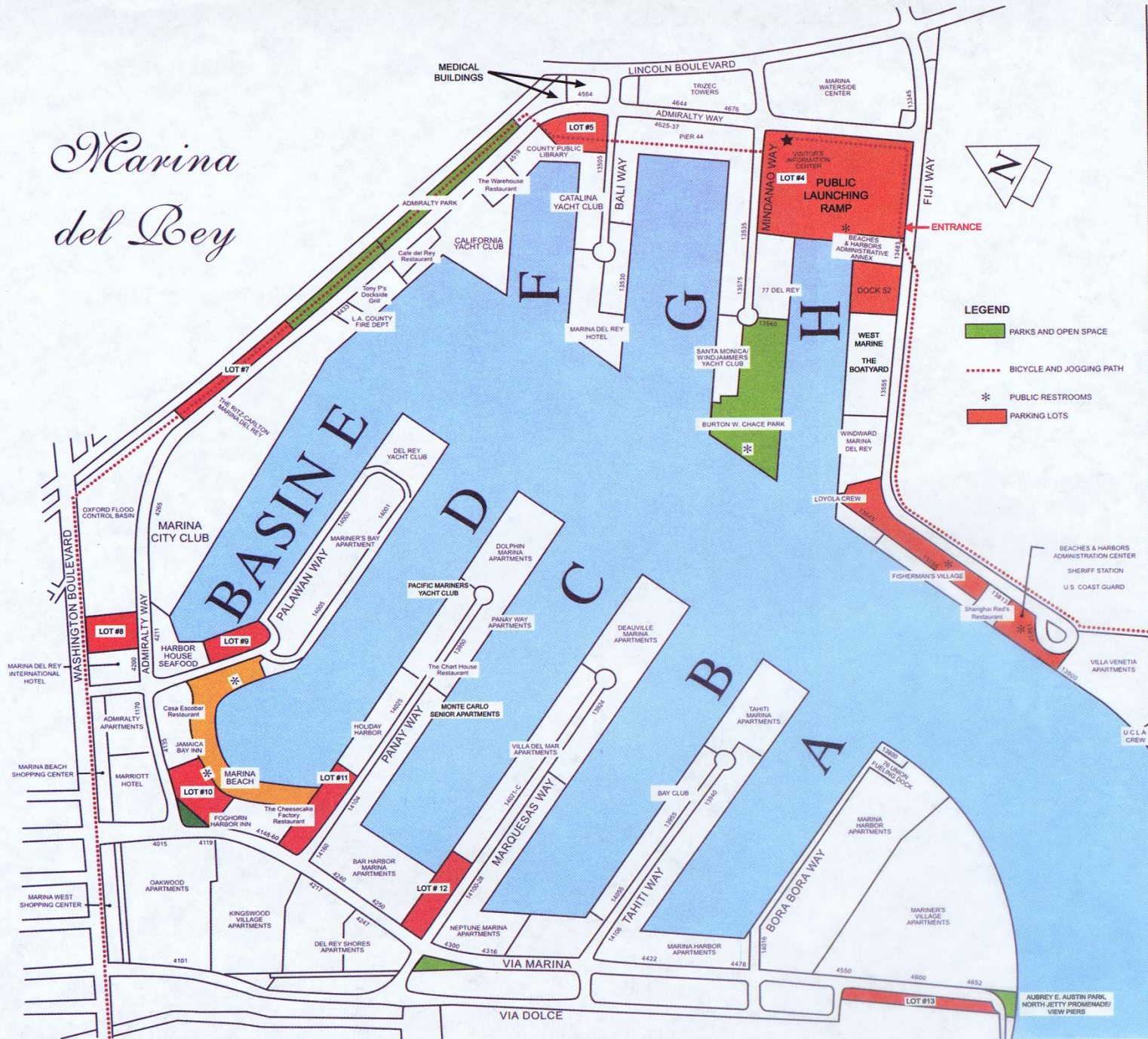
Presentation: March 5, 2014

What is a TMDL?

Total Maximum Daily Load



Marina del Rey



BALLONA CREEK

Original TMDL: Numeric Targets

Sediment

Metals: Copper, Lead, Zinc

Organic Compounds: Chlordane, PCBs

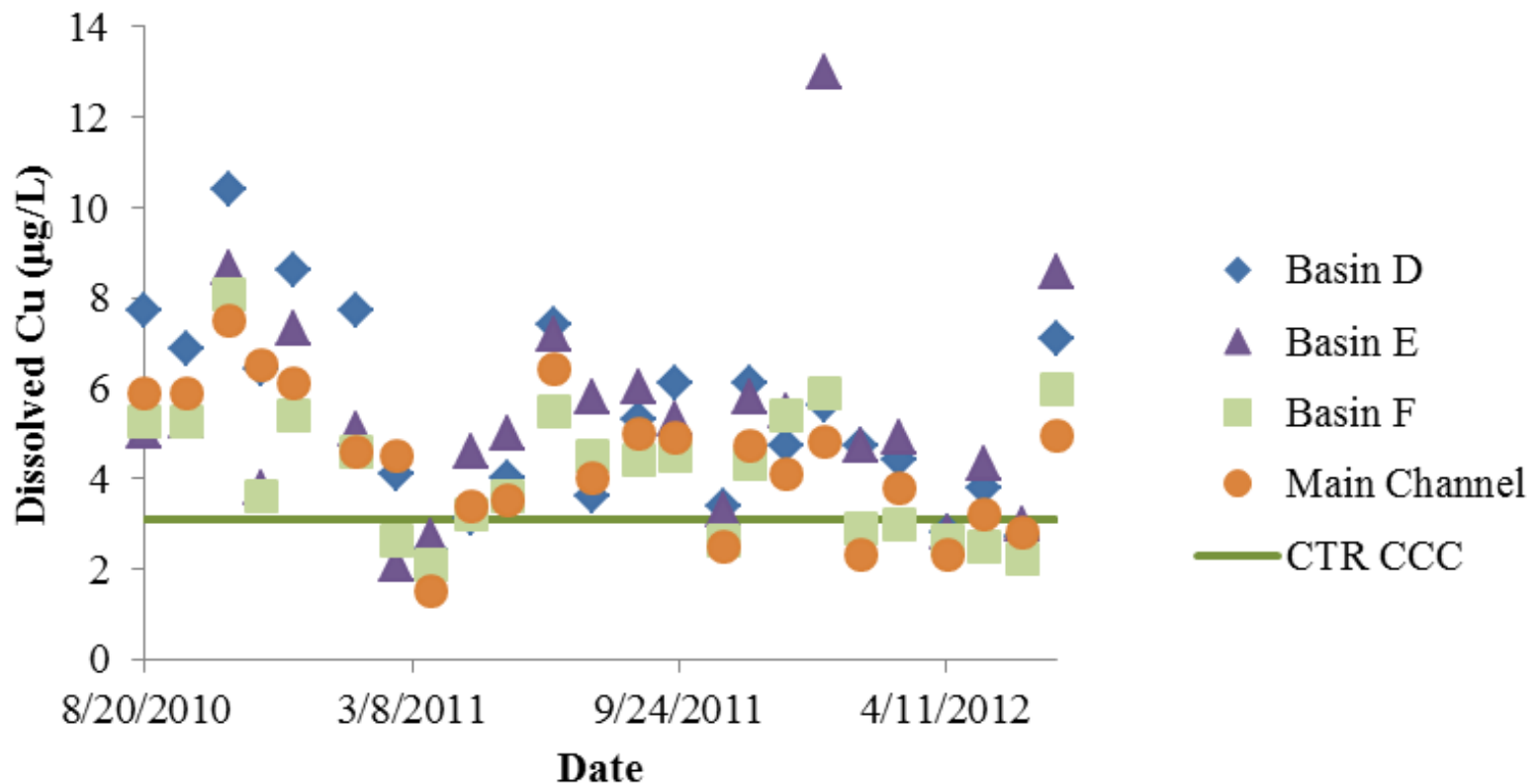
Fish Tissue

PCBs

Changes adopted by the Regional Board on February 6, 2014

- New impairments
 - Increased geographic extent
 - New sediment impairment: DDT
 - New water column impairment: copper
- Revised mechanism to address in-harbor sediments

Dissolved Copper: Marina del Rey Harbor Back Basins



Addressing the Copper Impairment

- Dissolved copper released into Marina del Rey from antifouling paint:
3609 kg/yr
- TMDL Loading Capacity for dissolved copper:
557 kg/yr
- Load Allocation for dissolved copper: 85% reduction in the baseline copper load from boats

Demonstrating Compliance

- Meeting numeric targets in the water column, or
- Demonstrating that 85% of boats in the harbor are using non-copper hull paints, or
- Another acceptable means of compliance approved by the Regional Board

Responsible Parties

- Persons owning boats moored in Marina del Rey
- Individual anchorages
- County of Los Angeles



Assistance from the Regional Board

- Support state and national efforts to regulate copper in paint
- Regional collaboration
- Outreach
- Grant funds to pay for paint conversions



Timeline

Regional Board
Adopts TMDL

TMDL
Final

Adopt
Permit

Meet 85%
Reduction

February
2014

December
2014

June
2016

March
2024

Comments and Responses

- Comment: The use of CTR is overly conservative and a site-specific objective should apply
- Response: CTR provides the applicable water criteria

Comments and Responses

- Comment: Paint conversions are too expensive/no viable alternatives are available
- Response: Affordable alternative antifouling paint options are available and have been tested

Questions?



Further Information

Los Angeles Regional Water Quality Control Board website

http://www.waterboards.ca.gov/losangeles/water_issues/programs/tmdl/tmdl_list.shtml

Want to follow the progress?

Sign-up on our website:

http://www.waterboards.ca.gov/resources/email_subscriptions/reg4_subscribe.shtml

Contact information

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