

Draft Newport Bay Copper TMDL



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What is a TMDL?

Total Maximum Daily Load

 A regulatory term in the Clean Water Act (CWA) that describes the maximum amount of a pollutant that a body of water can receive and still meet water quality standards

Air Deposition

Ships



Watershed

Rivers



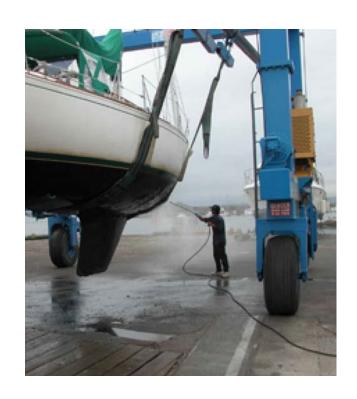
Newport Bay Copper (Cu) TMDL

- Developed by Santa Ana Regional Water Quality **Control Board**
- CEQA scoping meeting in June 2015
- Draft TMDL
 - Staff Report and Basin Plan Amendment (BPA)
 - Comments due October 17
 - Board hearing October 28
 - http://www.waterboards.ca.gov/santaana/water_issues/pr ograms/tmdl/tmdl metals.shtml



Draft Newport Bay Cu TMDL

- Upper and Lower Newport Bay
 - Copper in water 3.1 μg/L (CTR)
 - Copper in sediment 34 mg/kg
- 83% reduction of copper from boat hulls in 15 years
- Recommends transition to nontoxic paints, hull cleaning best management practices (BMPs), and education program
- Recommends dredging to reduce copper from sediment



Responsible Parties for Copper Anti-fouling Paint (AFP) Reduction Program

- State Lands Commission
- City of Newport Beach
- County of Orange
- Marina owner/operators
- Individual recreational boat owners
- Commercial vessel owners/operators
- Underwater hull cleaners
- Boatyards
- Boat owners of transient vessels

TMDL Implementation Plan

- Cu AFP reduction program
 - Work with Department of Pesticide Regulation (DPR),
 State Board, and EPA to restrict the sale and use of
 Cu AFPs in Newport Bay and impaired waterbodies
 - Develop implementation plan (within 3 months)
 - 15 years to compliance
 - 83% reduction in Cu AFP in Newport Bay
 - Convert all current boats, require all new boats to have approved paints, and determine current usage of Cu AFPs in Newport Bay
 - Dischargers are required to develop a certification program for hull cleaning and enforce all hull cleaners to use BMPs
 - Monitoring program
 - Education program

TMDL Implementation Plan

- Remediate areas of known sediment Cu impairment
 - Develop implementation plan (within 3 months)
 - Corrective strategies for areas of known sediment impairment
 - Monitoring program
 - Conduct evaluation to determine:
 - > Effectiveness of the corrective actions
 - Extent of sediment copper, zinc, and mercury impairment in areas of Newport Bay that have not been monitored (especially in marina and boatyard areas)

TMDL Implementation Plan

- Meet Cu allocation in runoff
- Evaluate Cu discharges from storm drains for local impacts
- TMDL Compliance Monitoring program
- Complete special studies for other metals of concern

City of Newport Beach Partners

- Municipal agencies with similar copper limits
 - Marina del Rey Harbor: Los Angeles County Department of Beaches and Harbors
 - Shelter Island: Port of San Diego
- Agencies with pending copper limits
 - Huntington Harbor
 - Dana Point Harbor
- Special Interest Groups
 - Recreational Boaters of California
 - Marina Recreational Association
- Technical/strategic support
 - Anchor QEA

Questions/Discussion

