Pathways to Compliance: Southern California Perspective

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Need Clear Compliance Goals

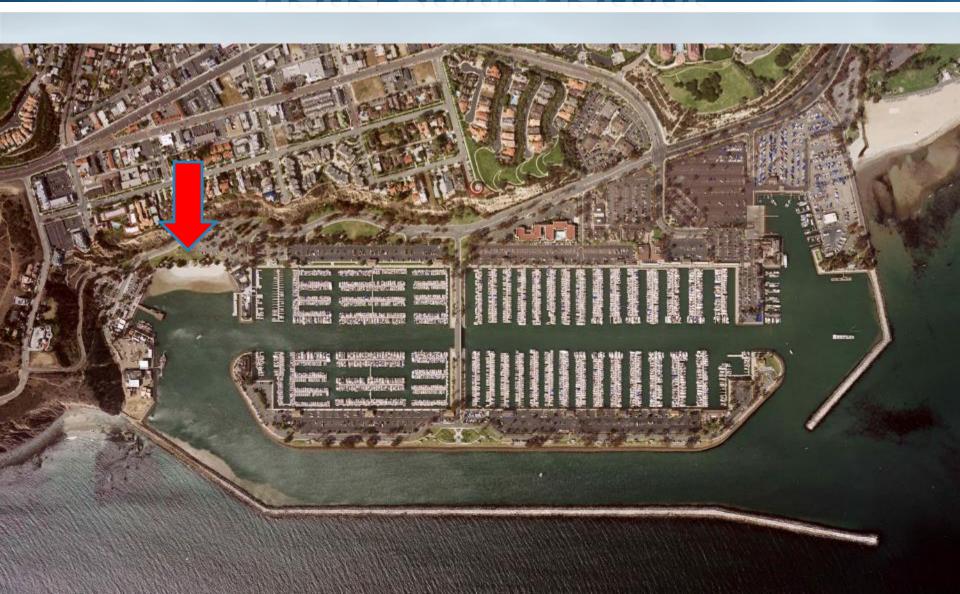
- Complexity of addressing MS4 discharges well known
 - ➤ Regulators agree that MS4s cannot achieve compliance on Day One of permit and compliance still unachievable in 5 year term

- Current RWL language:
 - ➤ Doesn't address complexities
 - ➤ Doesn't provide MS4s, the public or the water boards an accountable means of compliance
 - > Doesn't encourage beneficial reuse of stormwater

Success Story: Baby Beach

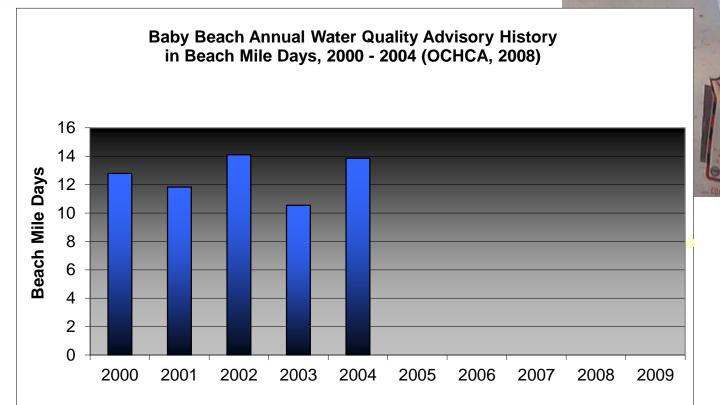


Dana Point Harbor



History

Shallow circulation
Persistent exceedances for bacteria



Consistent
"F" on Heal
the Bay
Report Card

Studies

- Data mining compare with tides, rainfall, birds, boating, human usage
- Circulation study impacts
- Bacteriological study spatial & temporal, groundwater, boat impacts, microbial source tracking
- Bird study

Source Investigation Results

Storm drains

Bacteria resident in beach sediments

Limited near-beach circulation

Birds

NOT: Boats, swimmers, groundwater, leaking pipes















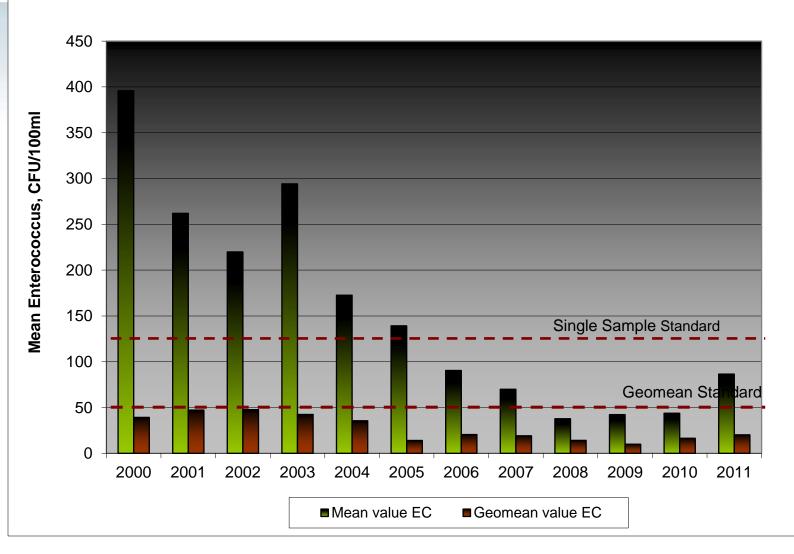
Beach Sweeping



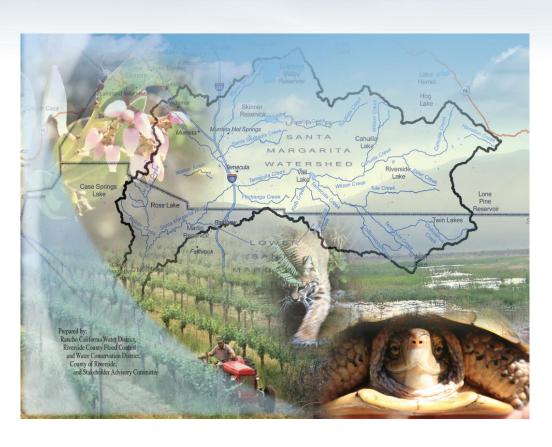
Baby Beach BMP Implementation History

- Source investigations, 2000 2002
- Shorebird disincentive BMPs, 2001-2005
- Clean Beaches Initiative Grant, 2002
- Headlands urban runoff BMP, 2005
- Beach sweeping program, 2007
- Sand removal & replacement, fall 2008

Baby Beach Enterococcus by Calendar Year 2000-2011 (non-standardized)

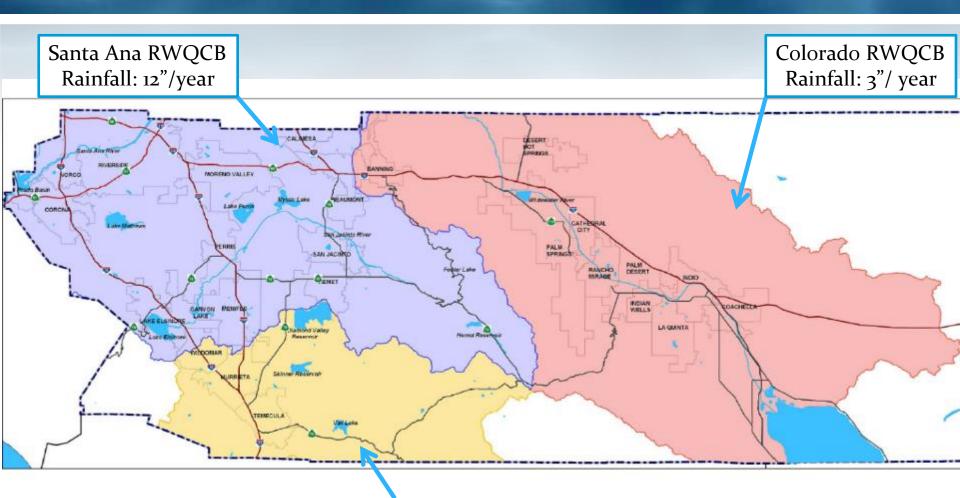


Riverside County Stormwater Program Partners in protecting water resources



- Habitat Conservation
- Water Conservation
- Water Quality
- Flood Hazard Reduction

Riverside County Regions



San Diego RWQCB Rainfall: 16"/year

Bacterial Indicators TMDLs 2 Different Solutions for 2 Different Watersheds



- 3" annual rainfall
- 3 outfalls
- Limited drainage area
- Developments with infiltration control
- MS4 limited to storm flow conveyance

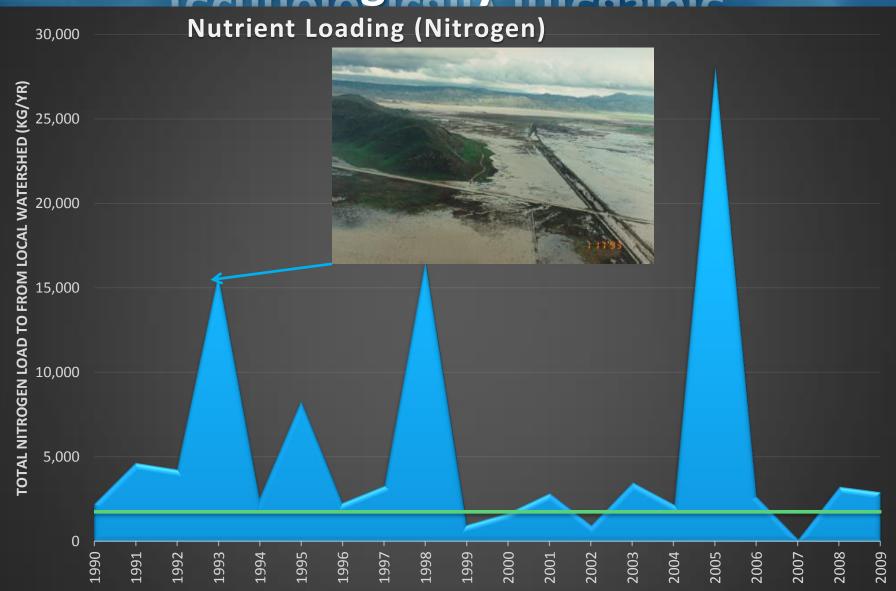


- 12" annual rainfall
- 17 outfalls
- Significant drainage area
- Older developments without infiltration
- MS4 used for water resource management

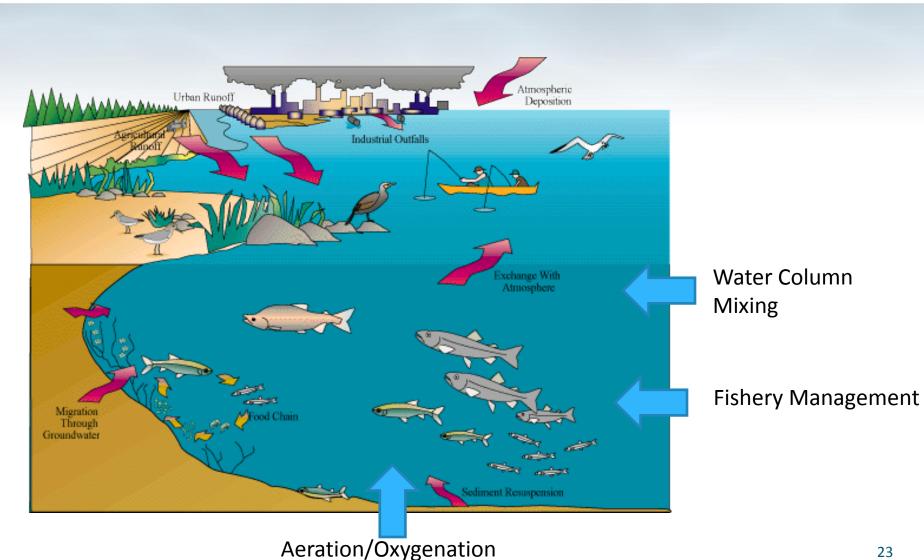
3 regional infiltration BMPs to pick off remaining low flow

Adaptive Management Plan including Basin Plan Revision

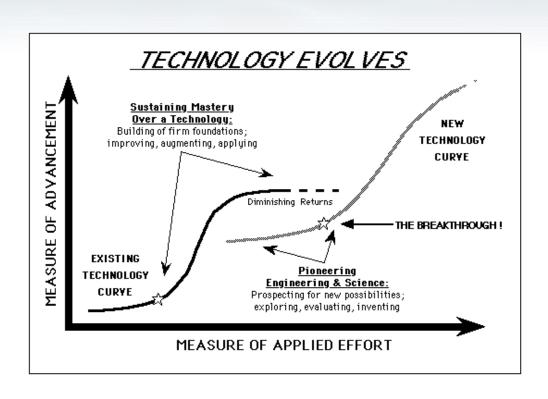
Lake Elsinore: Waste Load Allocations Technologically Infeasible



Alternate Path: Focus on TM response targets



Both Plans recognized scientific uncertainty, technological limitations



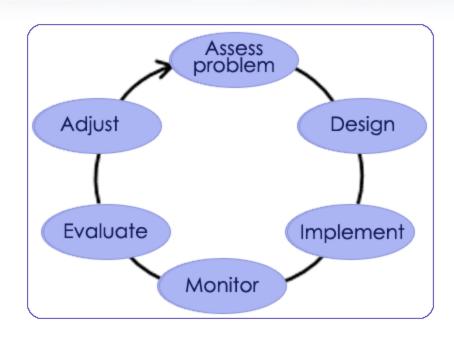
Adaptive

Strategic

Synergistic

Success Is Motivating!

Success stories in OC,
Riverside, and stories told
here today demonstrate
that these <u>adaptive</u>
management efforts are
how the iterative process
was intended to <u>work</u>



LA Permit Promotes Progress Toward Achieving WQS

- Addresses <u>prioritization</u> in watersheds
- Allows <u>synergy</u> with other government programs including stormwater use.
- Allows compliance during the planning process
- Requires <u>accountability</u>
- Encourages MS4s to undertake significant compliance efforts in a strategic manner

Lack of Compliance Pathway Hinders Progress

- Example: No compliance option in San Diego regional permit
- Incentivizes risk management, not watershed management
- Discourages prioritization of problem watersheds/pollutants
- Easier to build support and funding for programs if municipalities have clear pathways

What Do Our Counties Need?

- 1. <u>Precedential order requiring compliance</u> pathways but <u>flexible</u> enough to account for regional differences
- 2. <u>Clarity</u> that MS4 is in <u>compliance</u> with RWL, interim and final TMDL limits, and discharge prohibitions
- 3. <u>BMP-centered</u> approach for compliance with all discharge limits

What Do Our Counties Need?

4. Ability to adjust watershed management plans when timelines and/or BMPs become infeasible

5. Allowance for source controls

6. <u>Design storm</u> for infiltration and treatment

7. Appropriate alternatives to Reasonable Assurance Analyses (RAA)