

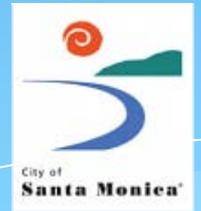


Santa Monica Bay (J2/J3)



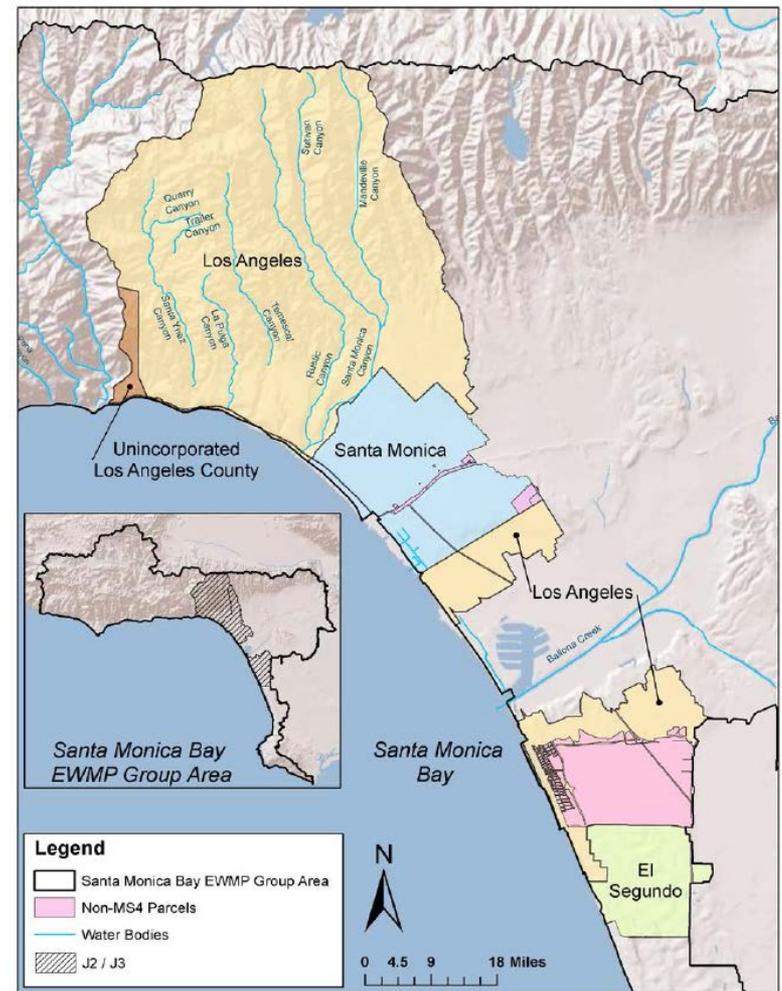
EWMP

July 9, 2015



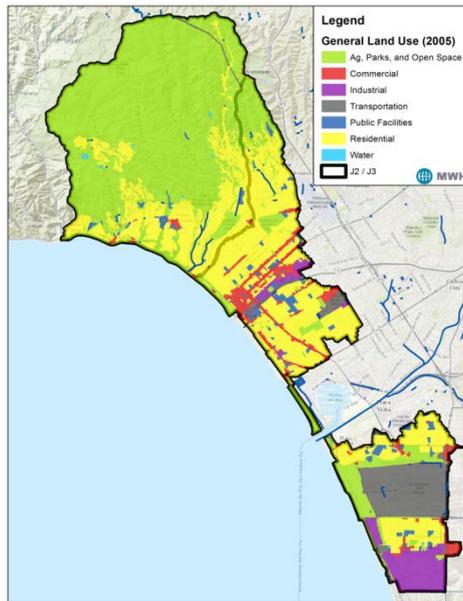
Overview of Watershed

- 53 square miles (34,000 acres)
- Member Agencies are City of Los Angeles, County of Los Angeles, LACFCD, City of El Segundo and City of Santa Monica
- Major Water Bodies
 - Santa Monica Bay Beaches
 - Santa Monica Bay
 - Santa Monica Canyon Channel



What Makes the Watershed Unique

- The J2/J3 area is in the central region of Santa Monica Bay with more than 12 miles of shoreline
- The J2/J3 beaches receive millions of visitors annually
- Land use is comprised of predominately open space and residential



Watershed Priorities

SMB Beaches – Bacteria TMDL

- Dry Weather Bacteria, Wet Weather Bacteria

SMB TMDL

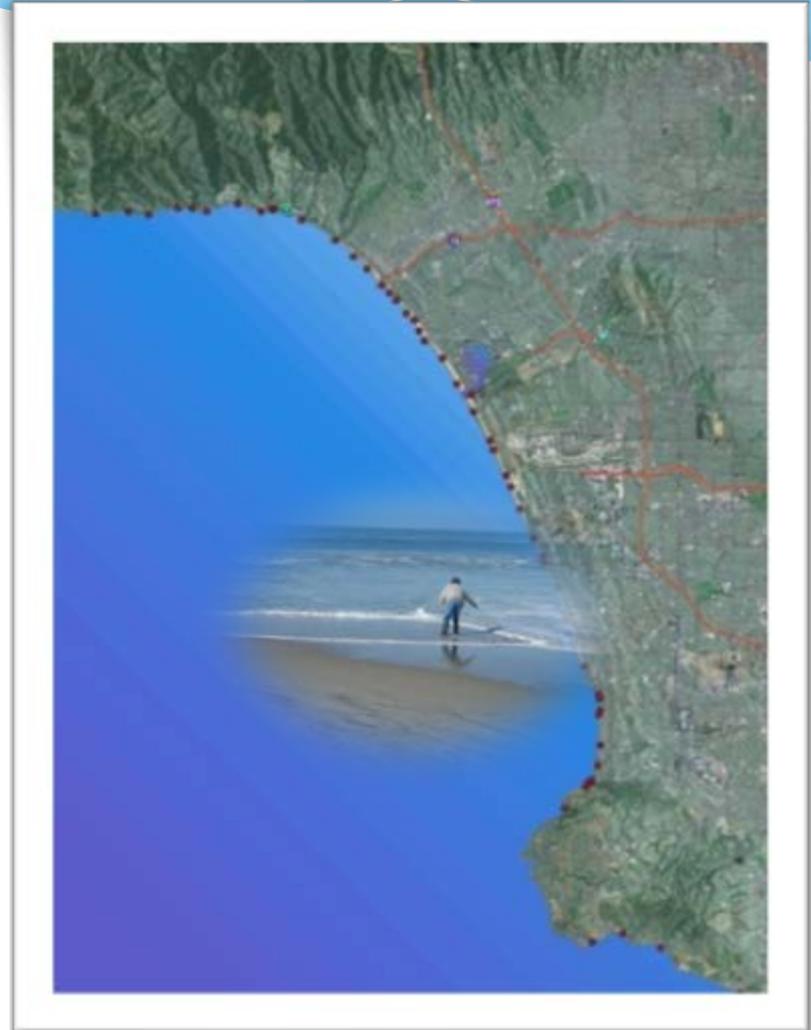
- PCBs/DDTs

SMB Offshore/ Nearshore TMDL

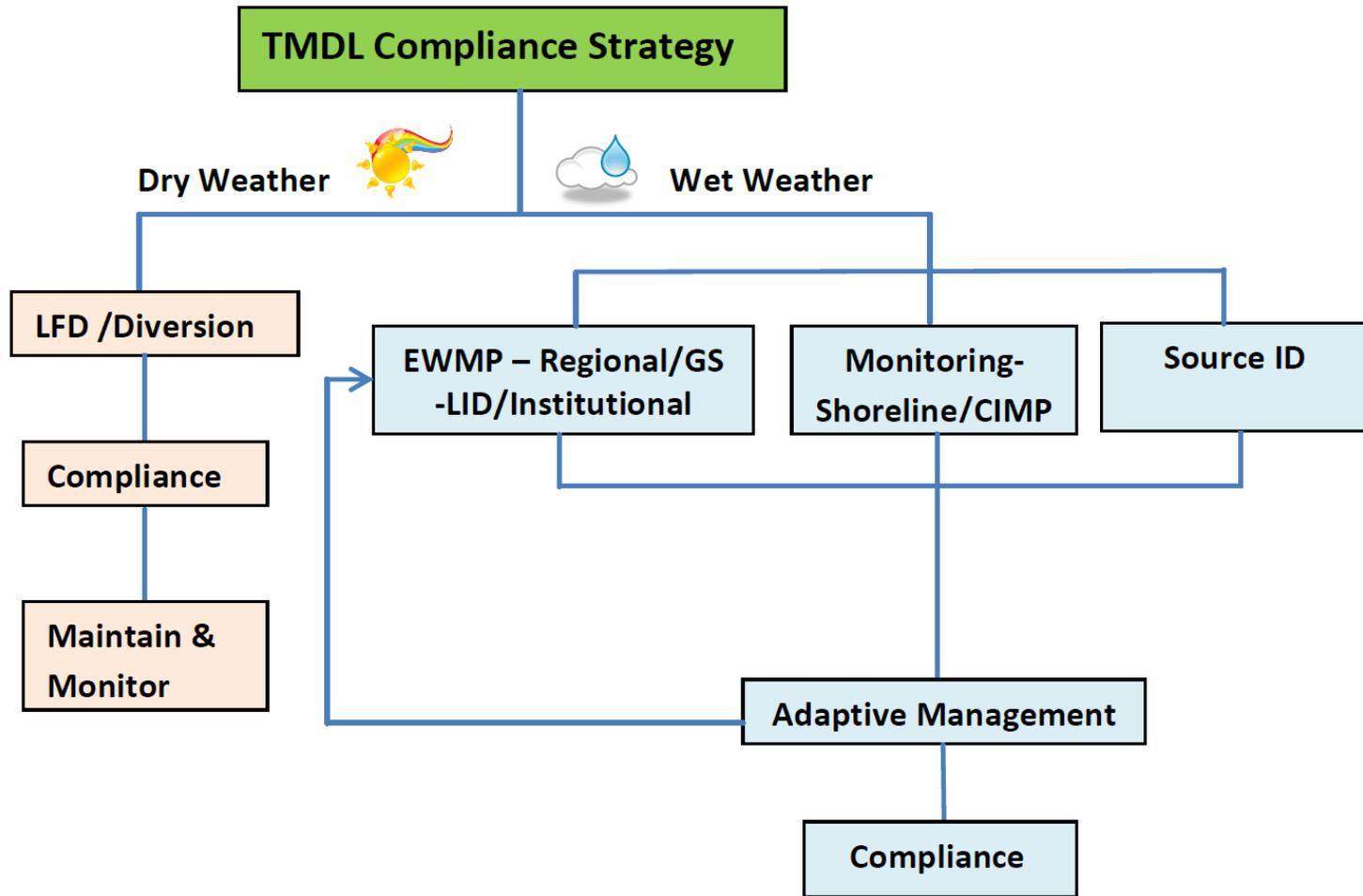
- Debris/Plastic Pellets

Santa Monica Canyon Channel 303(d)

- Lead
- Indicator Bacteria

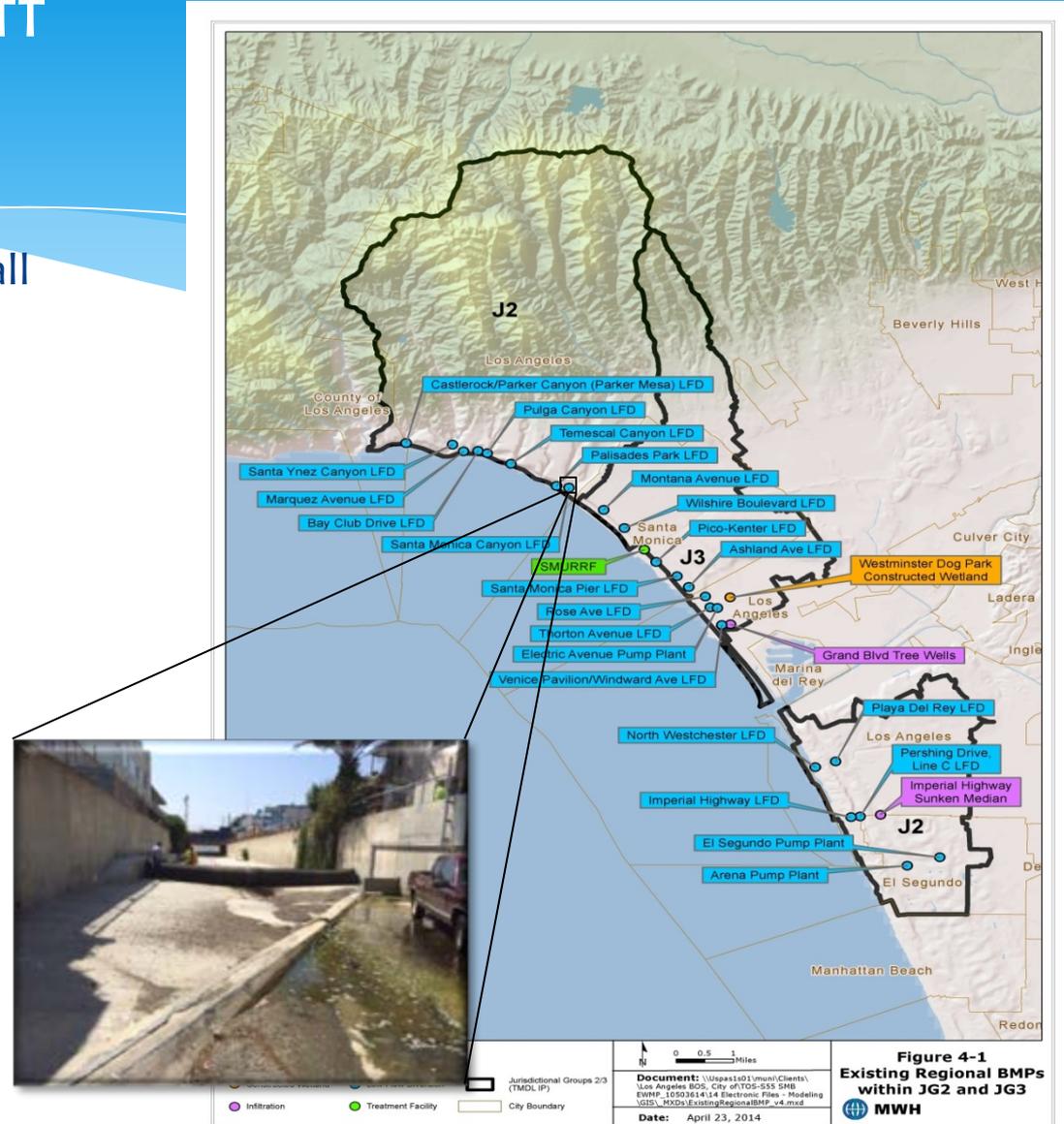


Compliance Strategy

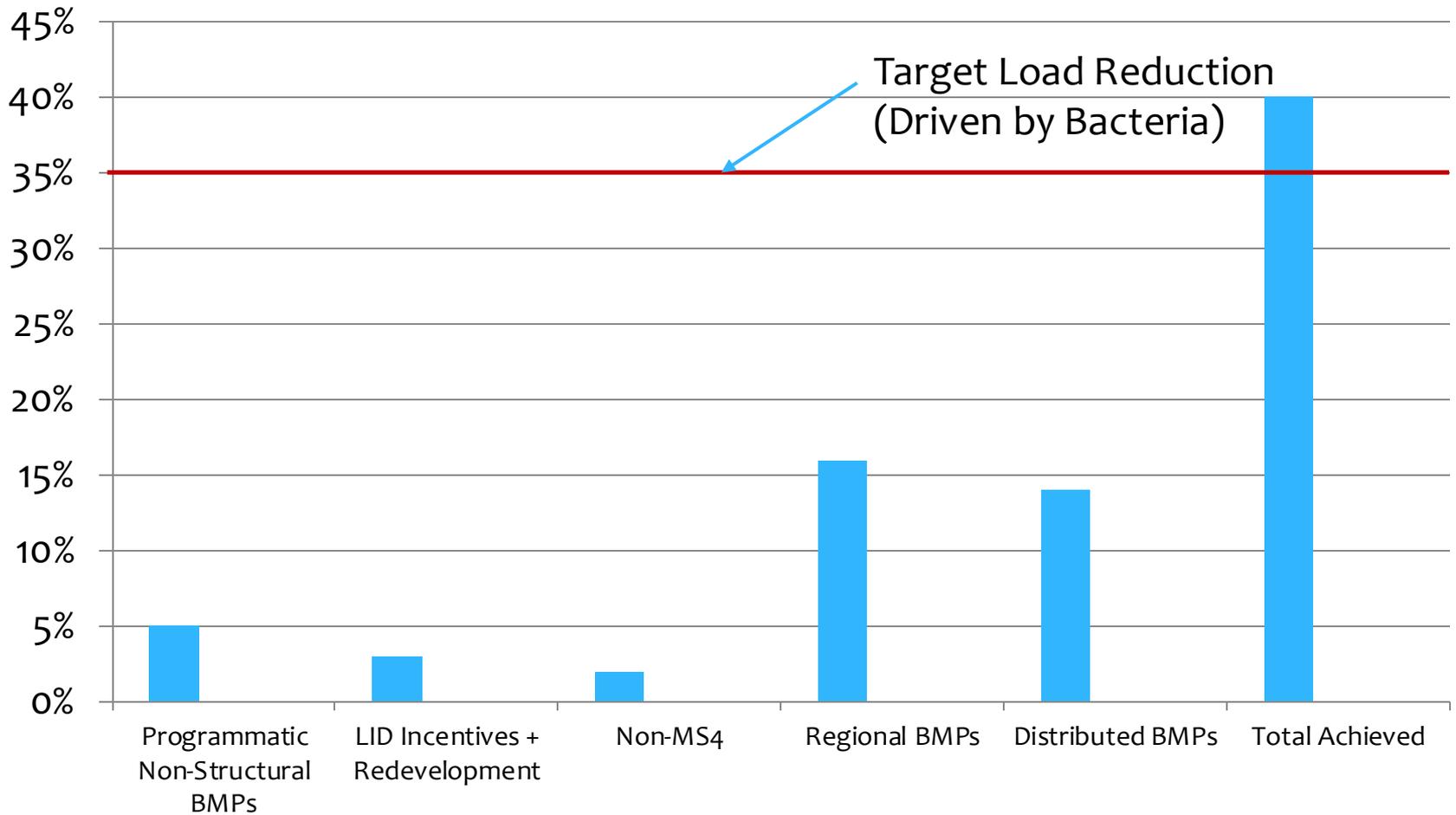


Dry Weather runoff addressed

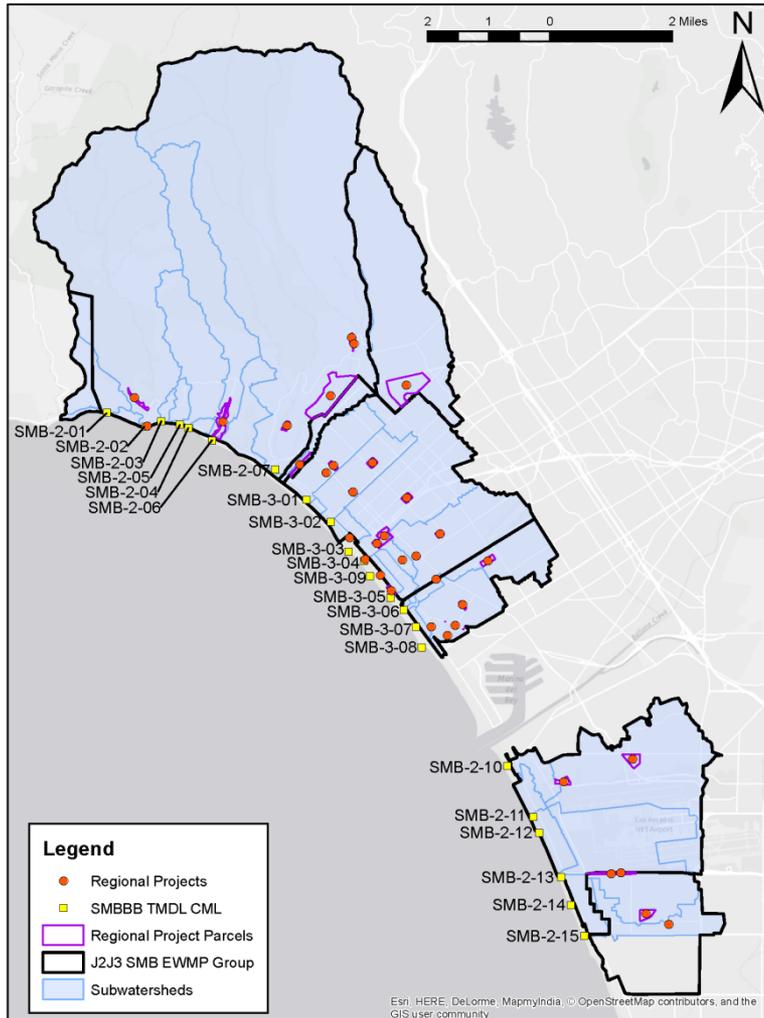
- 23 Low Flow Diversions at all Major Outfalls



Wet Weather

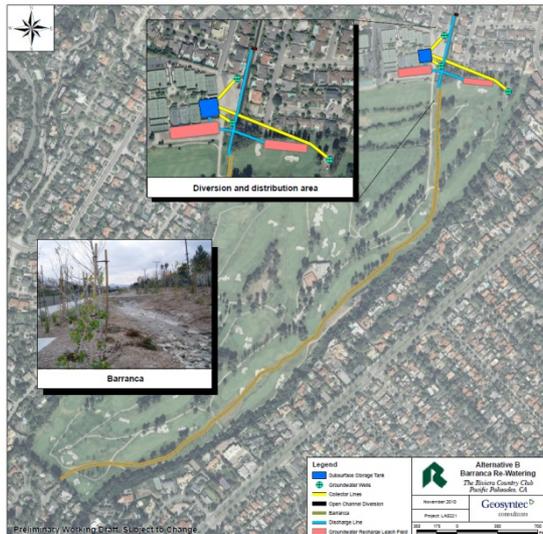


Regional Projects



- 32 Regional Projects proposed
- Regional Projects collectively take care of about 40% of total target load
- Water harvesting for irrigation is a major component of many Regional Projects
- 8 signature projects with concept report

Example Signature Project : Riviera Country Club



- Public/Private Partnership Project
- Retain dry and wet weather runoff from the upper SMC watershed
- Diversion from flood control channel to pre-treatment (e.g. CDS unit) followed by storage within both, storage tanks and the barranca
- Captured runoff will be infiltrated along the length of barranca to recharge groundwater and on-site landscape irrigation

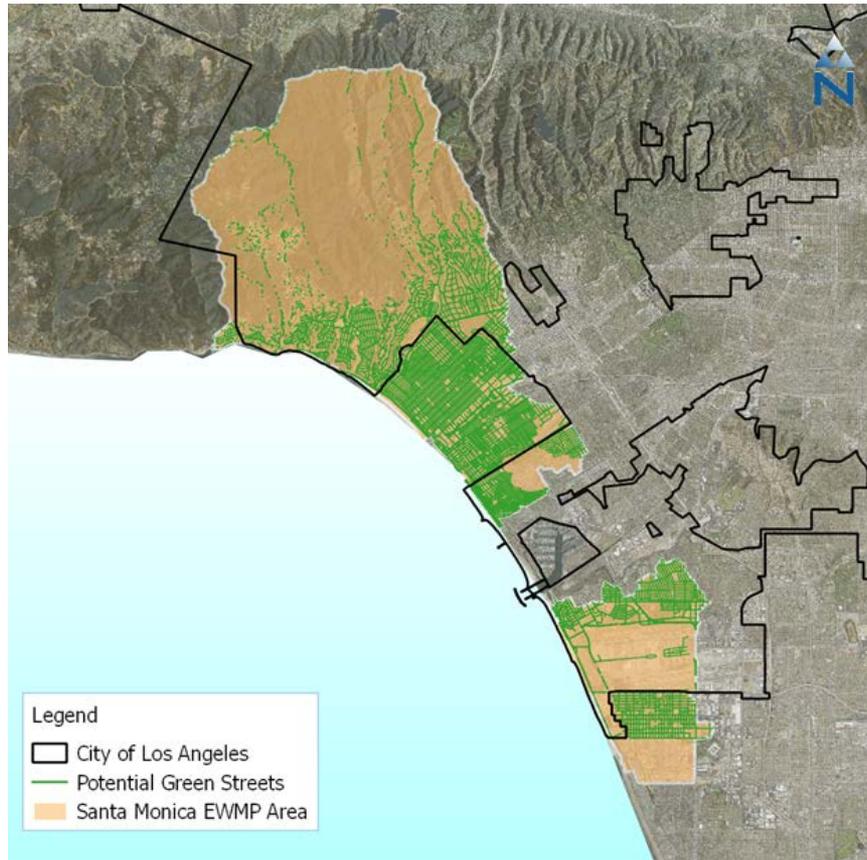
Riviera Country Club



Additional Benefits:

- Restores the historical barranca
- Recharges groundwater
- Reduces downstream pollutant loads and runoff volumes
- Reduces reliance on potable water

Distributed Projects



- EWMP identifies potential Green Streets
- Total runoff to be captured is 120 acre-feet per storm event
- Total area of proposed green streets is 147 acres

Potential Green Streets Project

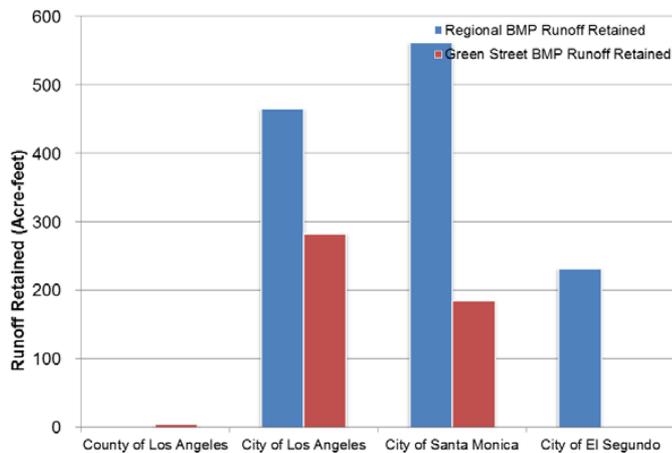
- Potential Green Streets project in Pacific Palisades



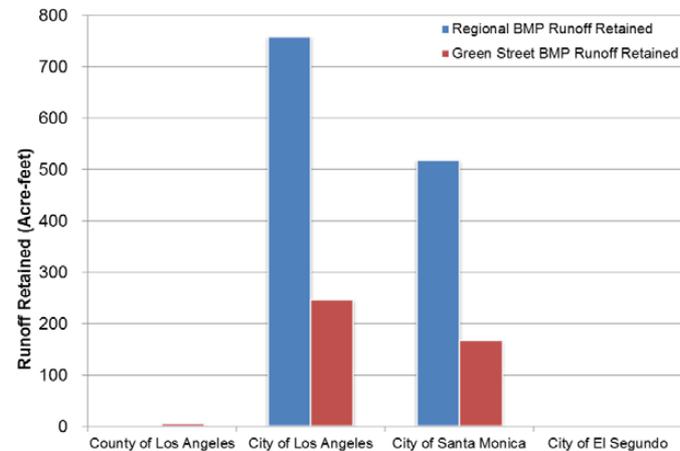
Implementation Schedule

Bacteria

BMP Runoff Retained over Critical Year by 2018



BMP Runoff Retained over Critical Year from 2018 - 2021



Early Action Project - PENMAR

Phase I (completed):

- Diversion structure, pump station, and a 2.75 mg underground detention tank

Phase II:

- On-site treatment following the detention tank, and irrigation system
- Completion expected by the end of 2017



Old Oak Road Bio-Swales



- Approximately 50 acres tributary residential area
- Within an equestrian community



Old Oak Road Bio-Swales



- 11 Bio-swales
- Completed in March 2014
- Maintained by residents



Estimated Implementation Cost

Total Costs by Agency (\$ Millions)

Agency	Capital	O & M*
Los Angeles	\$408.8	\$54.2
Santa Monica	\$213.2	\$33.5
Uninc. LA County	\$5.9	0.53
El Segundo	\$20.8	6.42
Total	\$648.7	\$94.7

*O&M cost is the present worth value of an annual O&M cost over a lifespan of 20 Years with a 5% interest.



Financial Strategy

- Grants: Prop 1 Water Bond, IRWMP, etc.
- Fees: AB 2403, Sales Tax, Stormwater fees
- Legislative: Amend Prop 218, source control measures
- General Funds
- Other options: P3, JPAs, stormwater credit trading

Stakeholder Process

Three Workshops held at LA Zoo on;

- April 10, 2014
- November 20, 2014, and
- March 19, 2015
- Many individual meetings



Elected Officials Support

Agency	Board/Council Approval Date
Los Angeles	June 16, 2015
County	May 26, 2015
Santa Monica	Briefings
El Segundo	Briefings



Low Impact Development and Green Street Policy

Agency	Adoption Date	
	LID	Green Street Policy
County	January 2009	July 2011
Los Angeles	October 2011	July 2011
Santa Monica	July 2010	July 2010
El Segundo	Adoption expected by end of 2015	Adoption expected by end of 2015

Questions/Discussion?

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