



Public Works Agency



Oak Park Green Streets Retrofit Project

March 24, 2015

Additional Discussion and Considerations

Oak Park Municipal Advisory Council



Malibu Creek Watershed Total Maximum Daily Loads (TMDLs)

TMDL	Effective Date	Promulgating Agency
Nutrients*	March 21, 2003	US EPA
Bacteria*	Jan. 24, 2006	LARWQCB
Trash**	July 7, 2009	LARWQCB
Benthic Community & Nutrients**	July 2, 2013	US EPA

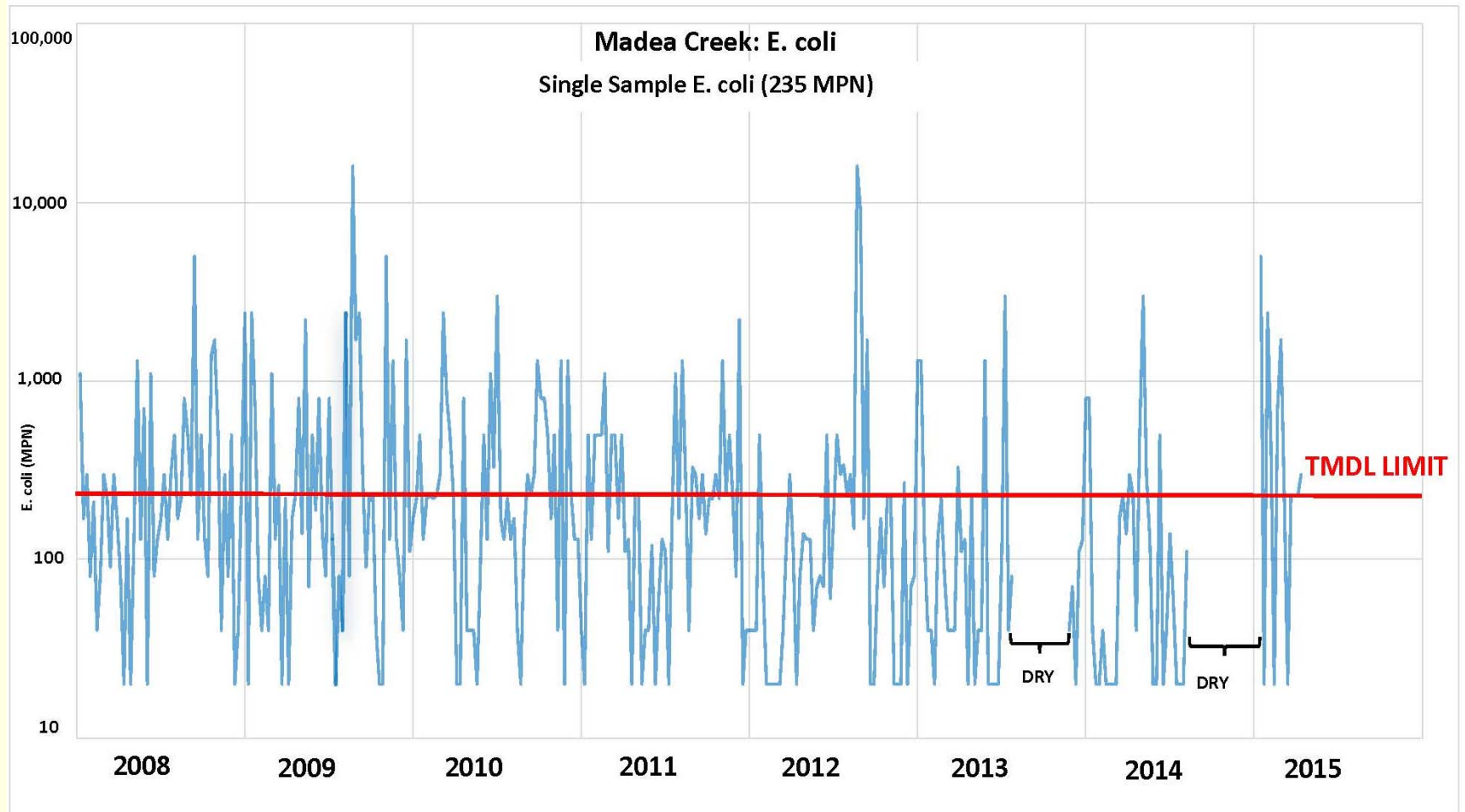
LARWQCB – Los Angeles Regional Water Quality Control Board
US EPA - U.S. Environmental Protection Agency

* Included in current Ventura Countywide Municipal Stormwater Permit (LARWQCB's enforcement mechanism)

** to be included in the Permit expected renewal in 2015

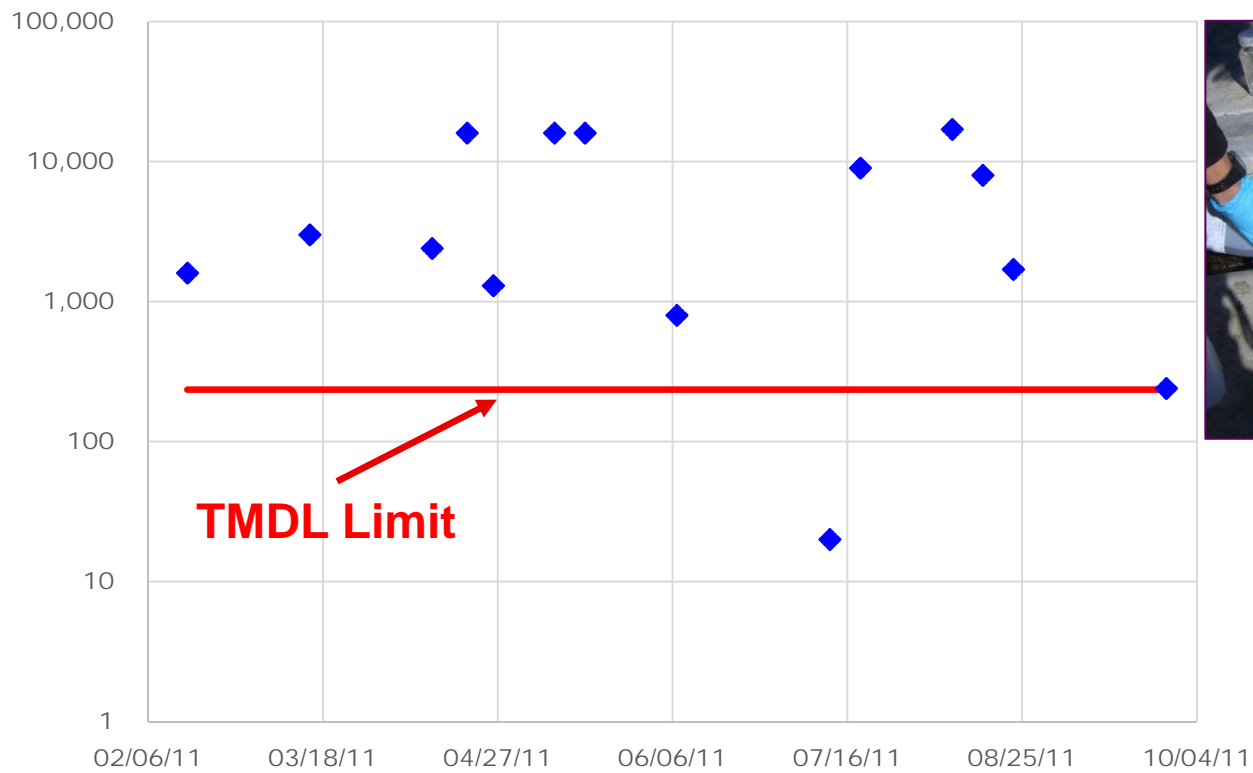


Medea Creek: *E. coli*





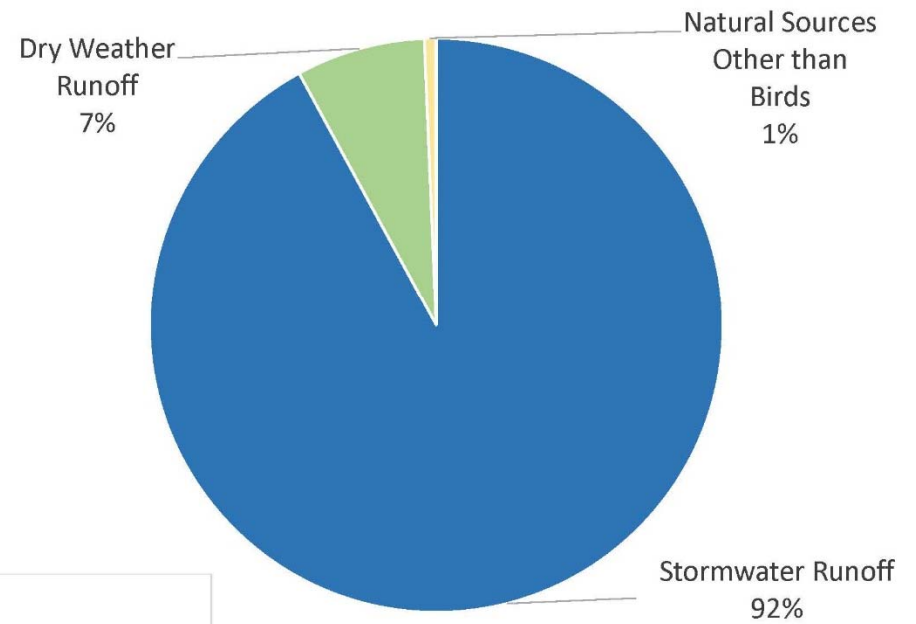
Tamarind Lane: *E. coli* in Runoff



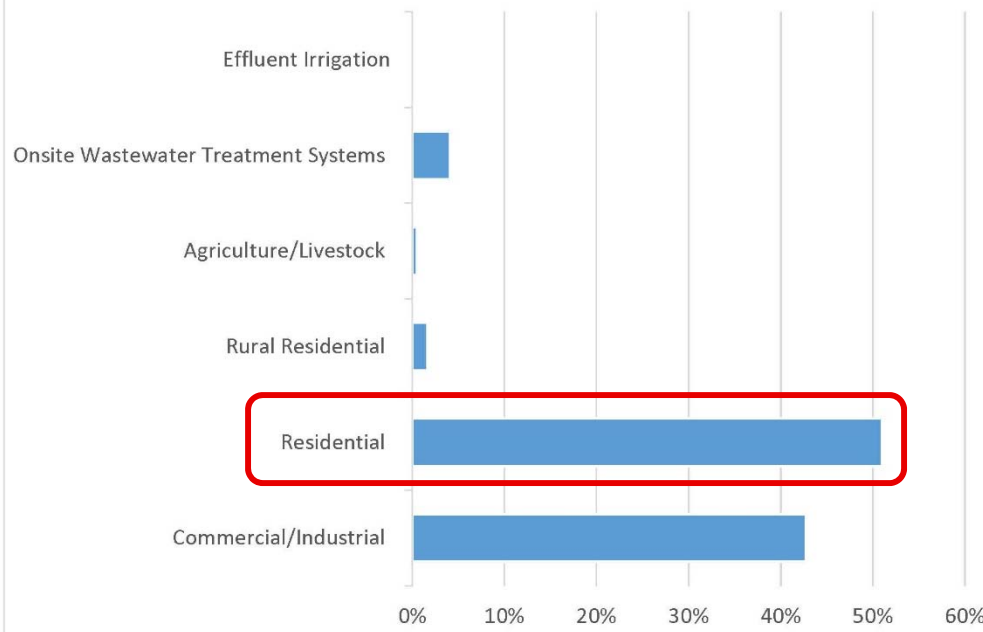


Pollution Sources

Fecal Coliform Annual Loading



STORMWATER RUNOFF
Fecal Coliform Annual Loading



Reference:
MCW Bacteria TMDL Staff Report,
LARWQCB 2004



Cost of Compliance

Compliance	Design & Construction	Annual O&M
Dry-weather (effective 2012)	\$6,000,000	\$90,000
Dry weather (effective 2012) & Wet-weather (effective 2021)	\$30,000,000	\$630,000

Notes:

- A. This cost estimate was prepared for estimated 736 acres of impervious surface in upper Malibu Creek Watershed.
- B. If enforced by LA RWQCB, out-of-compliance fines estimated at **\$10,000/day**



Prop 84 Stormwater Grant



- The Ventura County Public Works Agency has submitted numerous applications for Oak Park project under various State grant programs.
- Proposition 84 SWGP is intended to provide matching grants to local public agencies for reduction and prevention of stormwater contamination of rivers, lakes, and streams.
- First successful award of \$1.4M grant funding (May 2014)

				FUNDING AMOUNT		
PIN	REG	APPLICANT NAME	PROJECT NAME	PROP 84	MATCH	TOTAL
25941	4	County of Ventura	Oak Park Green Streets Urban Retrofit	\$1,397,410	\$350,540	\$1,747,950



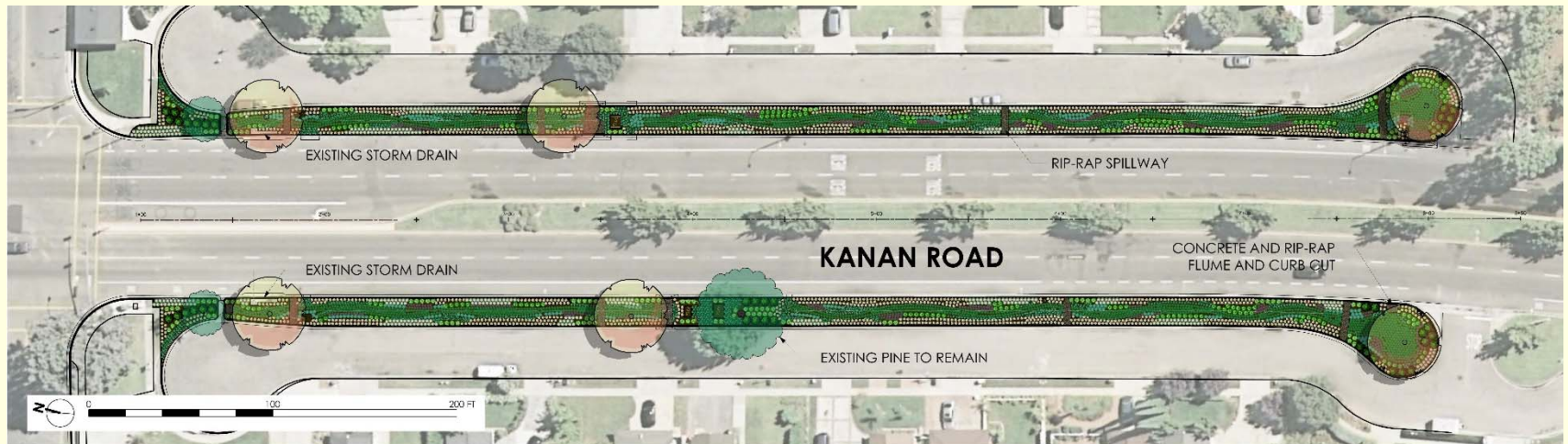
Landscape Committee Meeting

COMMENT: Project requires removal of about 30 ornamental trees in the median at Kanan Rd (estimated replanting cost \$7,500)

No.	Request	Response
1	Replant the removed trees within the medians	Revised design to include 2 Signature Oaks and additional trees within 6 forebays of the biofilter.
2	Replant the removed trees in the front yards of properties along the biofilter sites (outside of right-of-way)	The removed trees will be replanted depending on property owner's interest. The property owner will need to maintain and take any future liability for the trees.
3	All plants to be at least 1 gallon size for planting	Plugs changed to 1 gallon size



Biofilters





Landscape Committee Meeting (Cont.)

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No.	Request	Response
4	Remove additional turf from two small areas (ab. 600 sq. ft.) and plant to match biofilter sites (no treatment)	Updated design to include the two requested areas
5	Remove turf and plant in additional median (South to Conifer St.) to match biofilter sites (no treatment)	Considerations: <ol style="list-style-type: none">1. Removal of additional trees needed2. No funding available for additional construction without WQ benefit
6	Plant iceberg roses along edges of biofilters (for their full lengths) in both medians along Kanan Rd.	Considerations: <ol style="list-style-type: none">1. Aesthetics and visual effect of mixing with native plants2. Infringe on street parking along median curb3. Increased maintenance



OPMAC Comments (3/10/2015)

No.	Comment	Response
1	a) What are maintenance costs? b) CSA#4 shouldn't be responsible for maintenance	a) Approximately \$20,000; b) County will split maintenance cost with CSA#4
2	Kanan Rd median project location does not seem logical	<ul style="list-style-type: none">➤ Treats 20 acres of highest bacteria contamination (PhD-lead study)➤ Flow patters were established and documented by certified professionals➤ The only and best site for installation of the best available stormwater treatment method.
3	Concerned for safety of children with water filling medians and liability for accidents at the site	<ul style="list-style-type: none">➤ Medians are a traffic feature, not for pedestrian traffic use (no crosswalks or sidewalks).➤ Biofilters were designed to drain within 48 hours➤ Not aware of any such accident



OPMAC Comments (3/10/2015)

No.	Comment	Response
4	Aesthetic impacts at the main entrance to the community	<ul style="list-style-type: none">➤ Design was altered to allow for 2 Oaks and additional trees to be planted;➤ Landscape Architect expanded plant list that meets project design goals and adds varying color and height options;
5	Lack of CEQA review. OPMAC member doubts CEQA exemption	<ul style="list-style-type: none">➤ Categorical exemption for a retrofit of existing facilities within County's Right-of-Way (<i>Existing Facilities, Sec. 15301 and Replacement or Reconstruction Sec. 15302</i>).
6	Landscape Committee member wants to see data that supports need for project, design of project, efficacy of project, for where it is planned	<ul style="list-style-type: none">➤ Multiple presentations to the OP MAC were given since 2010;➤ Additional doc is available upon request including TMDL reg's, Implementation Plan, Technical Memo and Reports; Hydrology & Hydraulics Report



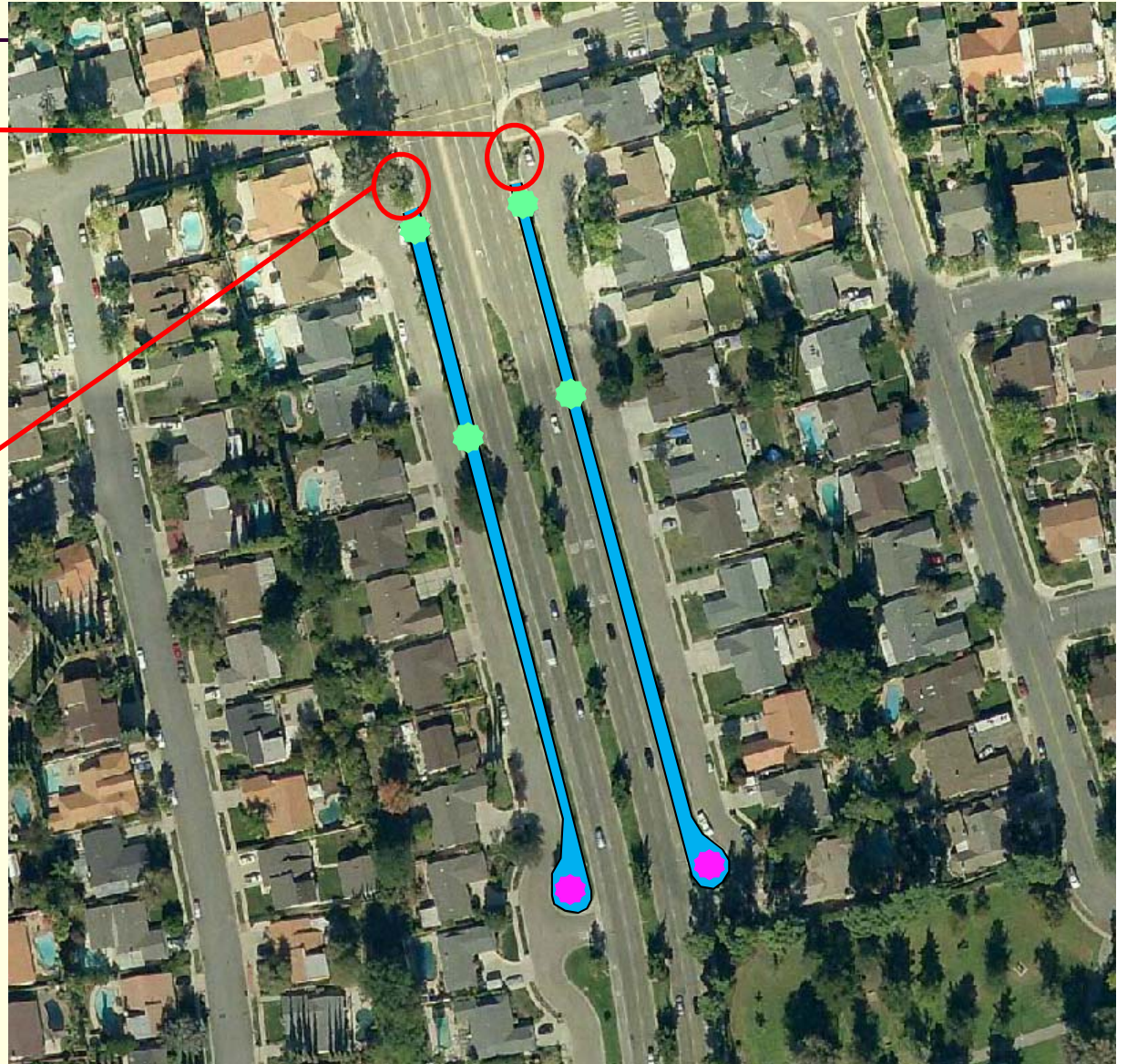
OPMAC Comments (3/10/2015)

No.	Comment	Response
7	Concern for additional dirt or trash, mosquitoes, salts, once project is installed.	<ul style="list-style-type: none">➤ Project will remove all these items from runoff entering storm drain (big benefit) for proper disposal.➤ Project reduces irrigation needs (recycled water has higher salinity).➤ Project designed to drain in less than 72 hours as required for vector control.
8	Concerned the proposed plantings will not survive in the roadside median.	<ul style="list-style-type: none">➤ Landscape Architect has developed plant list and new irrigation system that will flourish in Oak Park.➤ Climate-based selections (hot in summer, frost in winter, high salinity from recycled water irrigation, resilient to submersion during rain).



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■ Proposed Biofilters ● Oaks ● Sycamore Trees





Construction Considerations

■ Traffic Controls

- Open to traffic during non-working hours
- Lane closure during daily operations
- Full-time access to all driveways
- Parking restrictions – parallel residential street
- Pedestrian access limited
- Planned traffic signal outage (during utility work)

■ Coordination

- Notice to Residents
- Kanan Shuttle, &
- Brookside Elementary School



Next Steps

- Coordination with residents, OP MAC and/or Landscape Committee March 2015
- Construction Sept. – Dec. 2015
- Effectiveness Monitoring Fall 2015 & Winter 2015/16
- Educational Outreach including Ocean Friendly Garden workshops Fall of 2015



Questions?

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