

# TMDL Compliance



TMDL = “Total Maximum  
Daily Load”

WLA = Waste Load Allocations





# TMDLs

- Three Adopted TMDL's in Ventura
- Developed outside of Stormwater Permit
- Fully Enforceable once included in Permit



# Ventura's Active TMDL's

1. Ventura River Trash – Adopted 2008
2. Santa Clara River Bacteria – Adopted 2012
3. Ventura River Algae – Adopted 2013
4. Ventura Harbor Bacteria – Applied for delisting

# Ventura River Trash TMDL

- Adopted March, 2008 – 8 years to reach “zero” trash target and attain “full exclusion”
- 7 agencies named in TMDL
- Trash excluders in all 320 stormdrain inlets
- Regular cleanups, bmp’s, and monitoring
- City’s annual costs about \$90,000
- Joe Yahner – Supervises TMDL



## **Trash Excluders Ready For Installation**

The City of Ventura has installed 300 trash excluders City wide.



## High Trash Catch Basin

Drop catch basin before trash excluder installation

# Trash Excluders







## LID – Alive and Well in Ventura

- 50 active LID sites in Ventura with multiple bio-swales, curb-cuts, infiltration, treatment trains, permeable pavers
- 25 structural stormwater treatment sites (non-LID..i.e. vaults with media filters, inlet filters, etc.)
- Annual Inspection Program
- Some financed through MAD's

# LID – Fresh & Easy Market



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# Toyota Dealership



# LID – CAPS TV Studios



# Archstone Apartments



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# Ventura Community Park



# Chapel Lane Senior Apartments – City of Ventura Housing Authority



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## Snapdragon Lane Condos





## Surfer's Point





# LID – Ventura Industrial Park



# Constructed Wetland – Montalvo Hill





# Constructed Wetland – Montalvo Hill





# Ventura College



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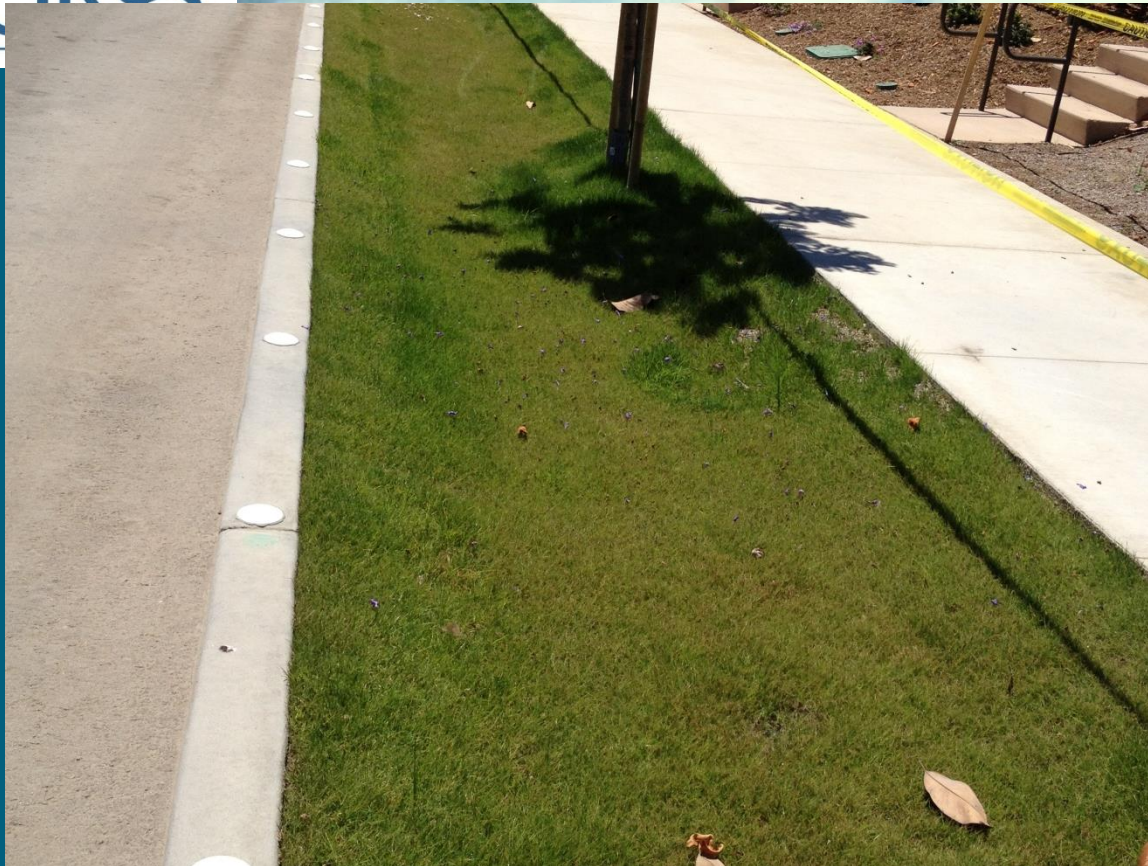
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# Cistern – Ivy Lawn Cemetary







**LID Parkway swale with zero curbs**



**Construction phase of detention basin**



**Park and Detention basin**

# Green Street LID – Azahar Place



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## Green Street LID – Bayview



# Homeowner Green Street LID retrofits



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# Green Streets



# Planned Green Streets Retrofits



**Mid-Town Parking  
Lot**

**Victoria Street**

**Main Street  
Medians**

**Westpark**







# Green Streets Opportunities

- Westside Bulbouts
- Henry Lyons Park at De Anza School
- CIP's (i.e. westpark bioswale)

# Stormwater Permit LID Performance Standards



- Capture, Treat and retain on site  $\frac{3}{4}$ " Rain event
- Use LID
- Offsite Mitigation Option