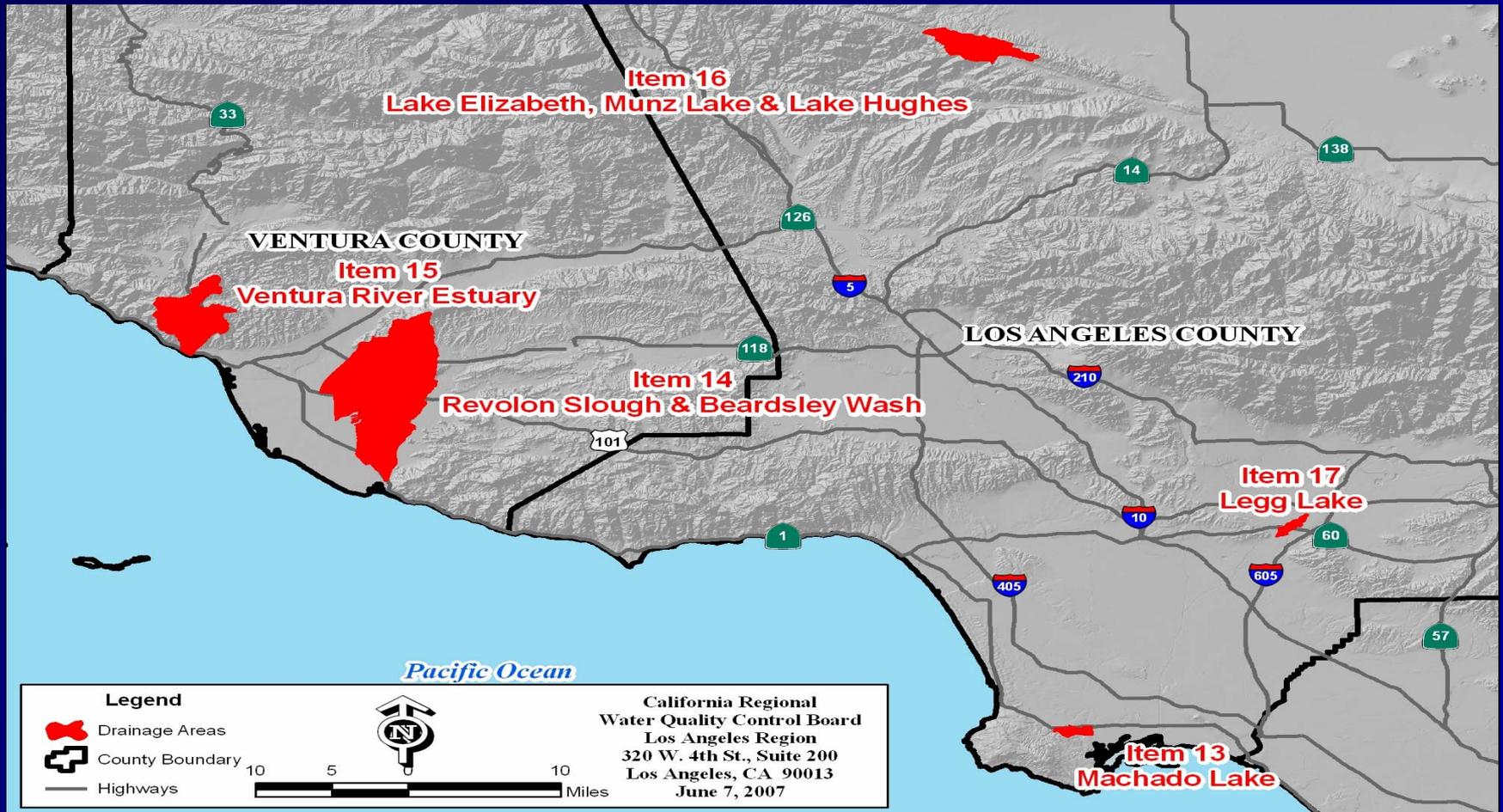


# Los Angeles Regional Trash TMDLs

State Water Board Meeting

December 4, 2007

# Map



# Regional TMDL Development

- Los Angeles River Trash TMDL
  - Zero Trash
  - Full capture systems
  - Implemented through MS4 Permits
  - Implementation Schedule

# Source Analysis

- Point Sources
  - CWA 502(14): *discharges or potential discharges from discernible, confined and discrete conveyance*
  - County or City storm drains
  - Caltrans
- Nonpoint Sources
  - *causes pollution by rainfall, or snowmelt which moves, picks up and carries pollutants resulting from human activities over and through the ground*
  - National Forests
  - Parks
  - Streets

# Implementation

- Full Capture System Minimum Requirements
  - Trap all particles retained by a 5mm mesh screen
  - Treat not less than the peak flow rate resulting from a 1-yr, 1-hr storm
  - Certification by Regional Board Executive Officer
  - Examples
    - Caltrans – Gross Solid Removal Device
    - Trash Nets
    - Catch Basin Brush Inserts & Aluminum Mesh Screens
- Minimum Frequency of Assessment and Collection (MFAC)

# Minimum Frequency of Assessment and Collection (MFAC)

- Manual collection of trash from waterbodies
- Annual reports
- Integration with BMPs
- Coordination with other Jurisdictions
- Implementation
  - Conditional Waiver of WDR
  - Other Orders including Cleanup and Abatement

# Point Source Implementation Schedule

<b>Task No.</b>	<b>Task</b>	<b>Date</b>
1	Submit Trash Monitoring and Reporting Plan, including a plan for defining the trash baseline WLA.	6 months from effective date of TMDL.
2	Implement Trash Monitoring and Reporting Plan.	6 months from receipt of letter of approval from Regional Board Executive Officer.
3	Submit results of Trash Monitoring and Reporting Plan, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or other measures to attain the required trash reduction.	2 years from receipt of letter of approval for the Trash Monitoring and Reporting Plan from Regional Board Executive Officer.
4	Installation of Full Capture Systems or other measures to achieve 20% reduction of trash from Baseline WLA*.	Four years from effective date of TMDL.
5	Installation of Full Capture Systems or other measures to achieve 40% reduction of trash from Baseline WLA*.	Five years from effective date of TMDL.
6	Evaluate the effectiveness of Full Capture Systems or other measures, and reconsider the WLA.	Five years from effective date of TMDL.
7	Installation of Full Capture Systems or other measures to achieve 60% reduction of trash from Baseline WLA*.	Six years from effective date of TMDL.
8	Installation of Full Capture Systems or other measures to achieve 80% reduction of trash from Baseline WLA*.	Seven years from effective date of TMDL.
9	Installation of Full Capture Systems or other measures to achieve 100% reduction of trash from Baseline WLA*.	Eight years from effective date of TMDL.

# Compliance Schedule - MFAC \*

<b>Task No.</b>	<b>Task</b>	<b>Date</b>
1	Conditional Waiver in effect.	Regional Board adoption of TMDL.
2	Submit Notice of Intent to Comply with Conditional Waiver of Discharge Requirements, including MFAC/BMP Program and Trash Monitoring and Reporting Plan.	Six months from TMDL effective date.
3	Implement MFAC/BMP Program.	Six months from receipt of Notice of Acceptance from Regional Board Executive Officer.
4	Submit annual TMRP reports including proposal for revising MFAC/BMP for Executive Officer approval.	Two years from effective date of TMDL, and annually thereafter.
5	Reconsideration of Trash TMDL based on evaluation of effectiveness of MFAC/BMP program.	Five years from effective date of TMDL.

\* At Task 3, all Responsible Jurisdictions must be attaining the zero trash target after each required trash assessment and collection event. At Task 4, all Responsible Jurisdictions must demonstrate full compliance and attainment of the zero trash target's requirement including that trash is not accumulating in deleterious amounts between the required trash assessment and collection events. Based on Responsible Jurisdiction monitoring reports, the Executive Officer may adjust the minimum frequency of assessment and collection as necessary to ensure compliance between the required trash assessment and collection events.

# Item 11

## Ventura River Estuary Trash TMDL

- 30 acres, south of Main St. bridge
- Includes lagoon and wetland
- Beneficial Uses: NAV, REC1, REC2, COMM, WARM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL, WET



# Site Specific Source Analysis

## Item 11 – Ventura River Estuary

- Conveyances from City and County of Ventura
- Ventura County Fairground
- Emma Wood State Park
- Adjacent land areas and roadways
- Direct dumping and deposition
- Agricultural land

# Responsible Jurisdictions

## Item 11 – Ventura River Estuary

- Point Sources
  - City of Ventura
  - Ventura County
  - Ventura County Watershed Protection District
  - California Department of Food and Agriculture
  - Caltrans
- Nonpoint Sources
  - City of Ventura
  - Ventura County
  - Ventura County Watershed Protection District
  - California Department of Parks and Recreation
  - California Department of Food and Agriculture
  - Agricultural land

# MFAC

## Item 11 – Ventura River Estuary

- Initial minimum frequency:
  - Once per week for the sandy beach area between the estuary and the ocean and along the bike path between May 15 and October 15. Once per month for the rest of the year.
  - Within one week after each storm event with one inch of rain or greater at the Front Street storm drain, which discharges under the eastern levee, 50-feet north of the railroad tracks.
  - Quarterly for other areas of the estuary below the U.S. 101 Freeway.
  - After major public events that occur in the Ventura County Fairground.
- Evaluation of results annually
- Revision of MFAC by Executive Officer

# Recommendation

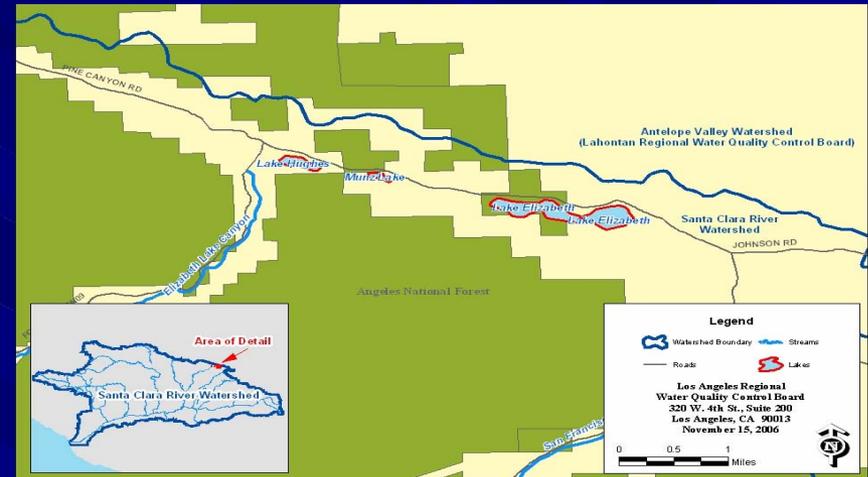
## Item 11 – Ventura River Estuary

- Approve the TMDL with EO Corrections
- Comments were received and responded to
- Questions

# Item 12

## Lake Elizabeth, Munz Lake and Lake Hughes Trash TMDL

- Elizabeth Lake
  - 123.2 acres
- Munz Lake
  - 6.5 acres
- Lake Hughes
  - 21.4 acres
- Elizabeth Canyon Creek
- Beneficial Uses: MUN, IND, PROC, AGR, GWR FRSH, REC1, REC2, WARM, WILD and RARE (Elizabeth only)



# Site Specific Source Analysis

## Item 12 – Lake Elizabeth, Munz Lake, and Lake Hughes

- Storm drains
- Other conveyances
- Recreational areas
- Residential areas
- Direct dumping and deposition
- Adjacent land areas, roadways

# Responsible Jurisdictions

## Item 12 – Lake Elizabeth, Munz Lake, and Lake Hughes

- Point Sources
  - Los Angeles County
  - Los Angeles County Flood Control District
  - Local land owners with conveyances that discharge to Lake Elizabeth and Lake Hughes
- Nonpoint Sources
  - National Forest Service
  - Local land owners

# MFAC

## Item 12 – Lake Elizabeth, Munz Lake, and Lake Hughes

- Initial minimum frequency:
  - Once per week on the water, shoreline and the adjacent land areas of Lake Elizabeth and Lake Hughes where they are publicly accessible during May 15 through October 15. Once per month for areas with limited access.
  - Once per month on the water, shoreline and the adjacent land areas for Lake Elizabeth and Lake Hughes from October 15 to May 15.
  - Within one week on the water, shoreline and the adjacent land areas of Lake Elizabeth and Lake Hughes after each storm event with one inch of rain or greater, and after each wind advisory.
- Evaluation of results annually
- Revision of MFAC by Executive Officer

## Recommendation

### Item 12 – Lake Elizabeth, Munz Lake and Lake Hughes Trash TMDL

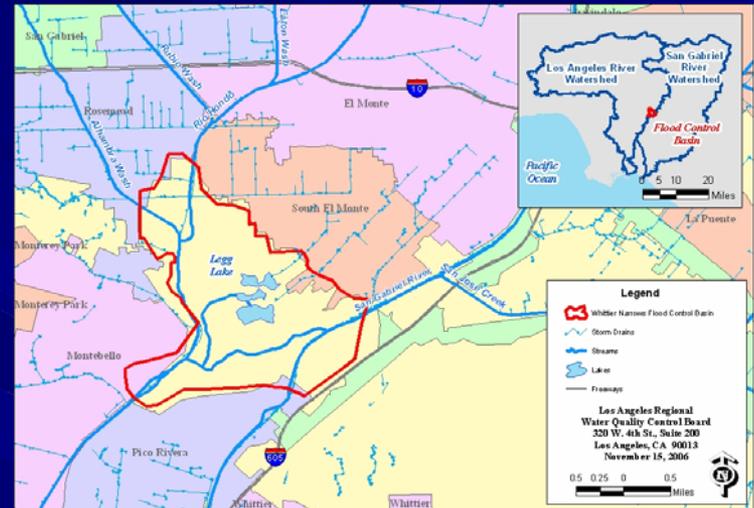
- Approve the TMDL and EO Corrections
- Comments were received and responded to
- Questions



# Item 13

## Legg Lake Trash TMDL

- Whittier Narrows between Los Angeles River and San Gabriel River watersheds
- Beneficial Uses: MUN, GWR, REC1, REC2, WARM, COLD, WILD



# Site Specific Source Analysis

## Item 13 – Legg Lake

- Storm drains from City of El Monte and City of South El Monte
- Heavy recreational use
- Direct dumping and deposition
- Adjacent land areas, roadways

# Responsible Jurisdictions

## Item 13 – Legg Lake

- Point Sources
  - California Department of Transportation
  - Permittees under the Los Angeles County Municipal Separate Storm Sewer System (MS4) NPDES permit, including:
    - Los Angeles County
    - Los Angeles County Flood Control District
    - County of Los Angeles
    - Cities of El Monte and South El Monte
- Nonpoint Sources
  - County of Los Angeles Department of Parks and Recreation



# MFAC

## Item 13 – Legg Lake

- Initial minimum frequency:
  1. Five days per week on the shoreline and in the Whittier Narrow Recreation Park Area.
  2. Once per week on waters of Legg Lake.
  
- Evaluation of results annually
  
- Revision of MFAC by Executive Officer

# Recommendation

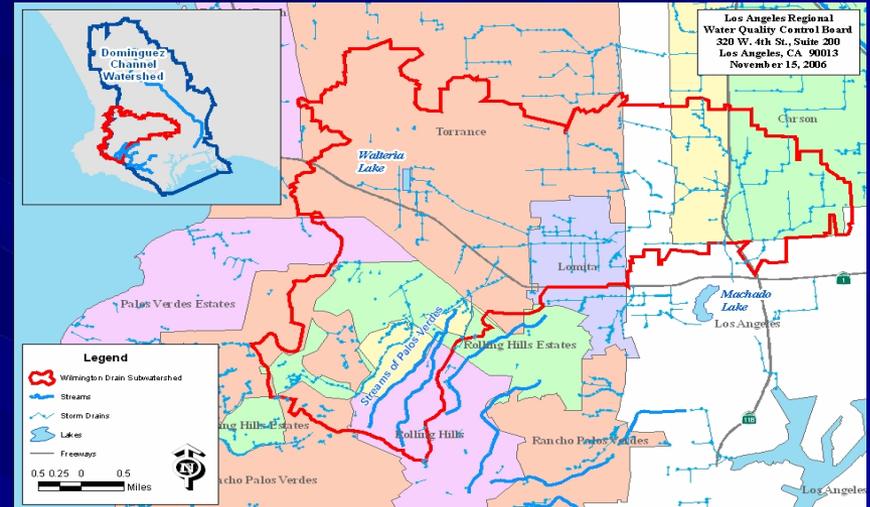
## Item 13 – Legg Lake Trash TMDL

- Approve the TMDL and EO Corrections
- Comments were received and responded to
- Questions

# Item 14

## Machado Lake Trash TMDL

- Dominguez Channel Watershed, Ken Malloy Harbor Regional Park
- 44 acres lake and 64 acre wetland
- Outflow to Los Angeles Harbor
- Beneficial Uses: IND, NAV, REC1, REC2, COMM, MAR, RARE, SHELL



# Site Specific Source Analysis

## Item 14 - Machado Lake

- Storm Drains
  - Wilmington Drain
  - Project No. 77 channel
  - Harbor City Relief Drain
  - City of Los Angeles drains
  - Project 643 outlets
- Los Angeles Harbor College
- Harbor Park Municipal Golf Course
- Adjacent land areas, roadways

# Responsible Jurisdictions

## Item 14 - Machado Lake

- Point Sources

- California Department of Transportation (Caltrans)
- Permittees under the Los Angeles County Municipal Separate Storm Sewer System (MS4) NPDES permit, including:
  - Los Angeles County
  - Los Angeles County Flood Control District
  - The Cities of Carson, Lomita, Los Angeles, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, and Torrance

- Nonpoint Sources

- City of Los Angeles Department of Recreation and Parks



# MFAC

## Item 14 - Machado Lake

- Initial minimum frequency:
  1. Five days per week on the shoreline and in Ken Malloy Harbor Regional Park.
  2. Twice per week on the waters of Machado Lake.
  
- Evaluation of results annually
  
- Revision of MFAC by Executive Officer

# Recommendation

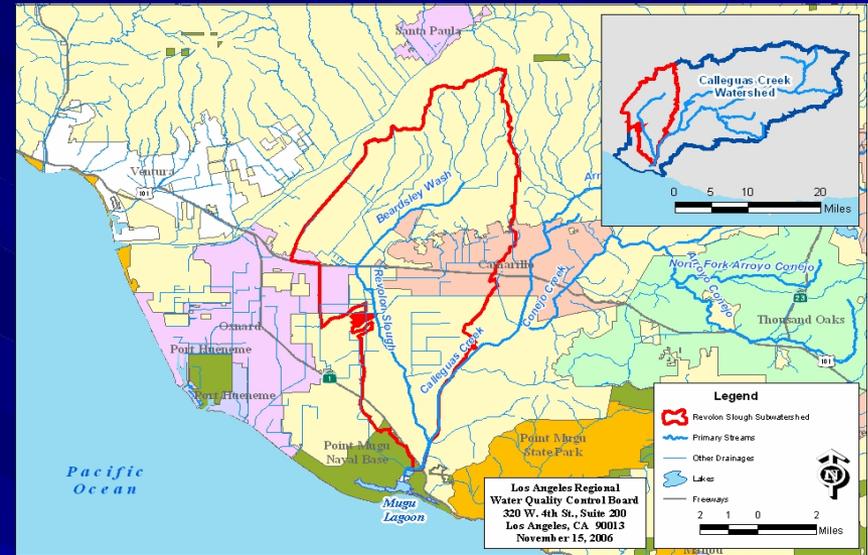
## Item 14 - Machado Lake

- Approve the TMDL and EO Corrections
- Comments were received and responded to
- Questions

## Item 15

# Revolon Slough and Beardsley Wash Trash TMDL

- Beardsley Wash
  - Approx. 4 miles in residential, agricultural areas
  - Beneficial Uses: MUN, FRSH, REC1, REC2, WARM, WILD
- Revolon Slough
  - Approx. 4 miles channelized in agricultural areas
  - Beneficial Uses: MUN, IND, AGR, GWR, REC1, REC2, WARM WILD, WET



# Site Specific Source Analysis

## Item 15 – Revolon Slough and Beardsley Wash

- Storm drains from cities
- Agricultural areas
- Residential neighborhoods
- Adjacent city land areas and roadways

# Responsible Jurisdictions

## Item 15 – Revolon Slough and Beardsley Wash

### ■ Point Sources

- Department of Transportation (Caltrans)
- Permittees and Co-Permittees of the Ventura County Municipal Separate Storm Sewer System (MS4) Permit, including:
  - Ventura County Watershed Protection District
  - Cities of Camarillo and Oxnard
  - Local landowners

### ■ Nonpoint Sources

- Land owners and agencies in the vicinity of Revolon Slough and Beardsley Wash, including:
  - County of Ventura
  - Cities of Camarillo and Oxnard
  - Agricultural entities in the Revolon Slough and Beardsley Wash subwatersheds

# MFAC

## Item 15 – Revolon Slough and Beardsley Wash

- Initial minimum frequency:
  1. Monthly on Revolon Slough and its adjacent land areas at Wood Road (the end of the concrete-lined channel).
  2. Bi-monthly on the water, shoreline and channels of Beardsley Wash and Revolon Slough in areas under the jurisdiction of the County of Ventura, and agricultural lands.
  3. Monthly assessment and collection at outlets on north side of Camarillo Hills Drain between Las Posas Rd. and Wood Rd.

# MFAC

## Item 15 – Revolon Slough and Beardsley Wash (Cont.)

4. Monthly on Las Posas Estate Drain between Central Ave. and the 101 Freeway.
5. Monthly at the inlet to the North Ramona Place Drain debris basin.
6. Monthly at inlet to Beardsley Wash at Wright Road and the adjacent land areas.
7. Monthly on a rotating basis of the following channels from the City of Oxnard (i.e. one drain cleaned per month):
  - a. Fifth Street Drain from Del Norte Blvd. to Revolon Slough
  - b. Sturgis Drain from Oxnard City Limits to Revolon Slough
  - c. Nyeland Drain from Center Drive to Friedrich Rd.
  - d. Del Norte Drain from Del Norte Blvd. to Revolon Slough

# MFAC

## Item 15 – Revolon Slough and Beardsley Wash (Cont.)

8. All Drains listed above will also be cleaned within one week of every storm event greater than 1 inch of rain or after wind advisory.
  - Evaluation of results annually
  - Revision of MFAC by Executive Officer

# Recommendation

## Item 14 - Revolon Slough and Beardsley Wash Trash TMDL

- Approve the TMDL and EO Corrections
- Comments were received and responded to
- Questions

