

WATERSHED URBAN RUNOFF MANAGEMENT PROGRAM

San Luis Rey River

**City of Escondido
City of Oceanside
City of Vista
County of San Diego**

**DRAFT
November 25, 2002**

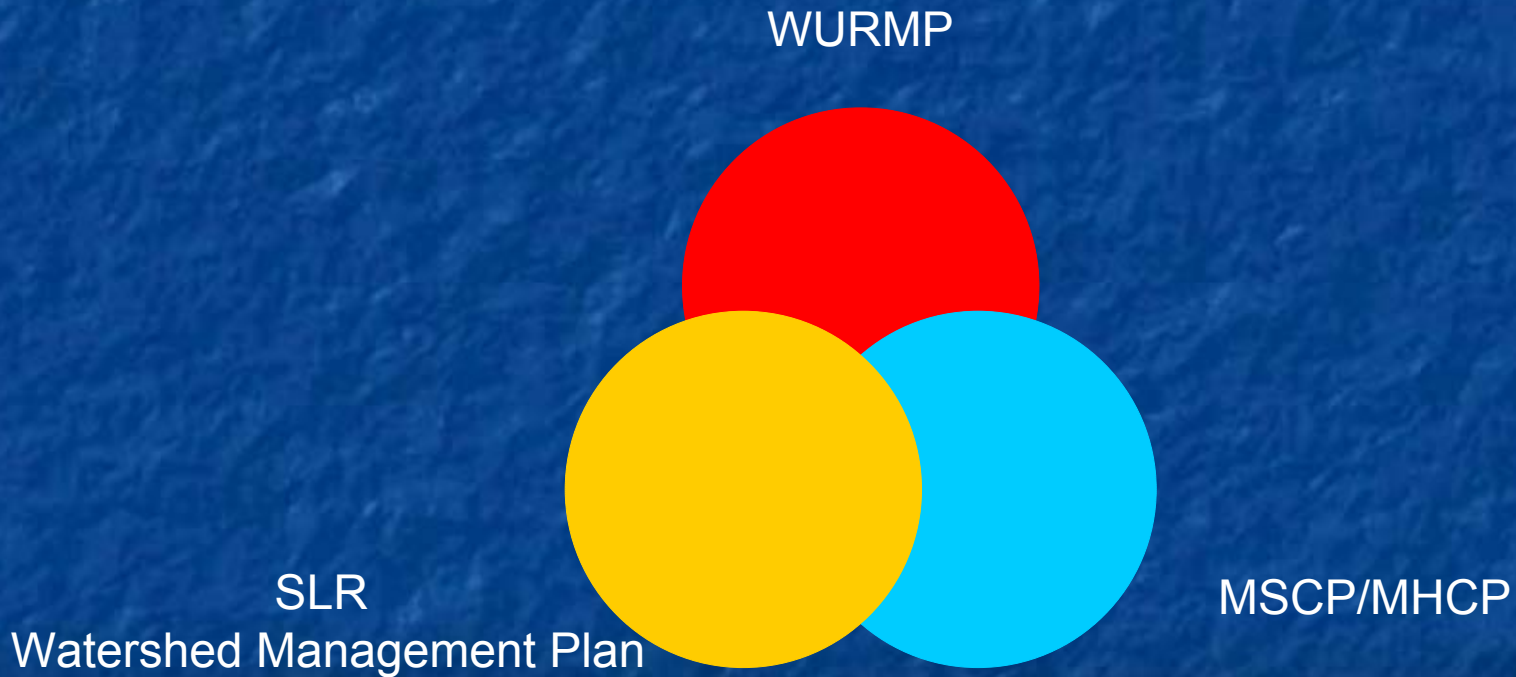
Program History: It's Been a Long Road Getting Us Here

- 1987: Amendments to the CWA required regulation of storm water (and urban runoff)
- 1990: RWQCB San Diego Region (SDR) issued NPDES Municipal Permit, Order No. 90-40
- 2001: RWQCBSDR issued current Municipal Permit (Order 2001-01)
- 2002: Municipal Permit requires *Jurisdictional* Urban Runoff Management Program (JURMP)
- 2003: Municipal Permit requires *Watershed* Urban Runoff Management Program (WURMP)

Specific Permit Requirements have been Established for the WURMP

- Water quality assessment and identification of major water quality problems
- Mechanism for watershed land use planning
- Watershed education
- Public participation

The WURMP is a Regulatory Program that Focuses on Water Quality, but there is Overlap with Other Programs



Watershed Program Development/Process

- Ad-hoc education group started in 2001 to collaborate on education
- Regional WURMP workgroup formed to ensure consistency among the nine watersheds in the region
- SLR WURMP work group started meeting in August 2002, working towards program development
- Consultant hired, in September 2002, to assist SLR WURMP work group in WURMP development
- Collaborative effort resulted in WURMP development and mutual commitment

San Luis Rey Watershed Copermitees

- 1. City of Escondido**
- 2. City of Oceanside**
- 3. City of Vista**
- 4. County of San Diego**

Jurisdictional Breakdown of San Luis Rey River Watershed

Jurisdiction	Percent (%)
ESCONDIDO	0.0
OCEANSIDE	4.4
SAN DIEGO CO.	95.2
VISTA	0.2

Plan Development was very much a Collaborative Effort

- **Group was established**
- **Goal was defined**
- **Objectives were outlined**
- **Water quality was assess & priorities were established**
- **Activities are assigned to achieve each objective**

Our Goal

*To positively affect the
water quality of the San
Luis Rey River
Watershed while
balancing economic,
social and environmental
constraints.*



Our Goal will be Achieved by Implementing Objectives

1. Develop and implement methods to assess and improve water quality within the SLR River Watershed which respond to identifiable problems and reflect the beneficial uses of the watershed.
2. Integrate watershed principles into land use planning that affects the SLR River Watershed.
3. Enhance and increase public understanding of watershed issues and pollution prevention within the SLR River Watershed.
4. Encourage and enhance public involvement within the SLR River Watershed in activities related to urban runoff management.

The Core of the WURMP is the Water Quality Assessment

- Identifies “major water quality problems” for the watershed
- Establishes the basis for the WURMP by focusing on specific problems
- Based on existing water quality data
 - Wet weather site for County-wide monitoring
 - Dry Weather Monitoring
 - Bacteriological Beach Monitoring



Water Quality Assessment and other Factors used to Prioritize Problems

- Water quality data
- Biological assessment data
- Toxicity data
- 303(d) impaired water bodies list
- Beneficial uses



Major Water Quality Problems Identified for Carlsbad Watershed

- Potential Major Water Quality Problems
 - Bacterial indicators (total/fecal/Enterococci) at the mouth
 - Dissolved Solids
 - Eutrophication
- Constituents of Concern to be “watched”
 - Bacterial indicators in the lower SLR River
 - Phosphorus



The Potential Problems have been Identified and Prioritized; Now What?

Time for Action

Activities developed were associated with the four Objectives

Objective #1

Develop and implement methods to assess and improve water quality within the SLR River Watershed which respond to identifiable problems and reflect the beneficial uses of the watershed

- Compile, review and assess additional water quality data to verify high priority problems including bacteria
- Track implementation of SUSMP and new construction BMP programs
- Support the upcoming Ambient Bay and Lagoon Monitoring (ABLM) Program
- Review and evaluate water quality data from a variety of sources to identify data trends

Objective #2

Integrate watershed principles into land use planning that affects the SLR River Watershed

- Consider and pursue, if appropriate, a formal agreement between the SLR River Copermittees
- Develop or compile specific watershed water quality data, information, and/or recommendations, as appropriate, and distribute it to each jurisdictions' respective planning departments
- Establish new/attend existing forums to ensure effective communication with planning staff
- Develop a complete watershed MS4 (conveyance system) Map of watershed
- Inform neighboring jurisdictions of proposed discretionary projects
- Update General Plans – Vista and County

Objective #3

Enhance and increase public understanding of watershed issues and pollution prevention within the SLR River Watershed

- Incorporate general watershed concepts and principles into jurisdictional education activities
- Participate in regional or watershed public survey
- Participate in development and implementation of school-based program using watershed concepts
- Develop region-wide poster, which identifies watersheds and receiving waters
- Identify and evaluate efforts by others in the region that support the goals of the storm water program
- Annually assess and revise watershed-specific education strategy

Objective #4

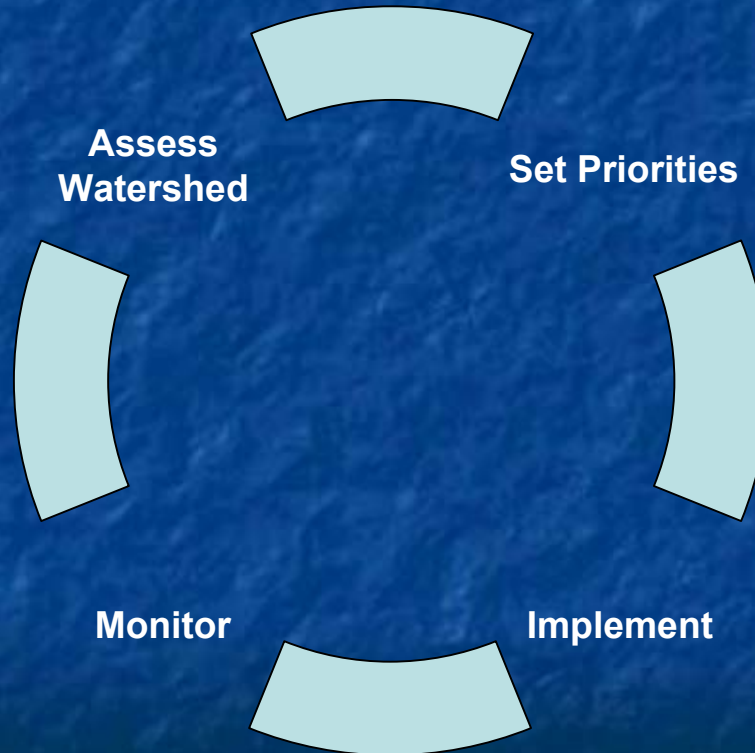
Encourage and enhance public involvement within the SLR River Watershed in activities related to urban runoff management

- Collaborate on watershed and regional public participation activities
- Encourage dialogue with watershed stakeholders in order to solicit feedback/input on the Watershed URMP
- Participate in additional established workgroups and forums to ensure integration of SLR River Watershed's activities
- Utilize the Project Clean Water website for posting appropriate watershed data and watershed plans

Program Assessment is key to Successful Plan and Must Focus on Objectives

- Determining statistically significant trends in water quality is the ultimate measure of program effectiveness, however, trends in pollutant levels of storm water may take many, many, many years
- Assess progress towards achieving objectives
- Track activities for accountability
- Initially establish baseline from which to measure against
- Re-evaluate and adjust program based on assessment

A Key Element of the WURMP is the Adaptive Management Plan



Summary and Conclusions

- WURMP has been collaboratively Developed to address:
 - Regulatory requirements of Municipal Permit
 - Objectives set forth in WURMP
- Key Components relate to four objectives:
 - Water Quality Assessment
 - Land Use Planning
 - Watershed Education
 - Public Participation
- SLR Watershed Copermittees are committed to continue working together to implement the WURMP and focus on improving water quality in watershed

