



## EXECUTIVE SUMMARY

---

### **2002/03 Program Effectiveness Assessment (PEA) Executive Summary**

This Program Effectiveness Assessment (PEA) was prepared as a joint submittal by the County of Orange/Orange County Flood Control District (hereinafter referred to as the County) to meet the requirements of the Third Term Permits that were issued by the Santa Ana and San Diego Regional Water Quality Control Boards to the County of Orange, the Orange County Flood Control District (OCFCD) and the incorporated cities of Orange County (collectively referred to as Permittees).

The primary objective of the PEA is to describe the County's stormwater program activities conducted from July 1, 2002 through June 30, 2003. The reporting period bridges a transition from the programs developed first under the Second Term Permits, to those of the Third Term Permits adopted in early 2002. As part of this transition the County has lead a countywide migration from the programs in the 1993 Drainage Area Management Plan (1993 DAMP and Draft 2000 DAMP) to a fully updated 2003 DAMP that forms the basis of compliance implementation and reporting under the Third Term Permits

The County's 2002/03 PEA is organized into twelve (12) program elements which correspond with the structure of the 2003 DAMP. The County had many accomplishments during the reporting period as it continues to recognize water quality as a top priority. Some of the more notable achievements during the reporting period include:

#### **Program Management (Section C-2)**

- Submittal of the County's Local Implementation Plan (LIP) to the San Diego Regional Board on February 13, 2003.
- Participation in every meeting of the countywide program committees, subcommittees and task forces.
- Initiation of a committee with representatives from over 20 different County Departments to facilitate program implementation.

#### **Plan Development (Section C-3)**

- Initiation of two BMP effectiveness investigations, one for a Clear Creek treatment system on the J01P28 drain in the Aliso Creek Watershed and the other for a parking lot system in Dana Point Harbor at the Ocean Institute.
- Implementation of a UV Disinfection system and BMP effectiveness investigation at Poche Beach in conjunction with the City of San Clemente.
- Completion of the Tustin Area Spill Control (TASC) Demonstration Project Report in conjunction with the Orange County Sanitation District.



## EXECUTIVE SUMMARY

---

### **Legal Authority (Section C-4)**

- Amendment of the County's Water Quality and Grading ordinances to facilitate implementation and enforcement of the programs provided for in the 2003 DAMP.
- Adoption of a Fats, Oils and Grease (FOG) ordinance for food facilities.

### **Municipal Activities (Section C-5)**

- Completion of inventory and prioritization of 152 County facilities for inspection and BMP implementation.
- Conducted eleven training sessions for 163 County employees on the Municipal Activities program.
- Cleaned 46 miles of drainage facilities including 2,133 catch basins, resulting in the removal of over 52 tons of solid debris.
- Over 1 million gallons of dry weather flow was diverted to the sanitary sewer.
- Approximately 1,000 tons of solid debris collected and disposed of through street sweeping.
- 18,777 lbs. of household hazardous waste collected from roundup event in Silverado Canyon
- 259,200 gallons of used motor oil collected for recycling.

### **Public Education/Public Participation (Section C-6)**

- The County's website, [www.ocwatersheds.com](http://www.ocwatersheds.com), which focuses on watershed and stormwater issues, received over 1,240,000 hits for the period and averaged more than 3400 hits per day.
- Participated in seven public outreach events throughout the County.
- 1,268,898 public impressions achieved through the County's individual public education and outreach effort.

### **New Development/Significant Redevelopment (Section C-7)**

- 44 project Water Quality Management Plans (project WQMPs) were approved describing post-construction BMPs for 1423 of new development/significant redevelopment.
- The County's CEQA Review Checklist was updated with water quality requirements.
- WQMP Template and guidance documents for developers and project designers made available on the Planning and Development Services website, <http://pdsd.oc.ca.gov/>.



## EXECUTIVE SUMMARY

---

### **Construction (Section C-8)**

- Completion of inventory and prioritization of 1853 construction sites for inspection and BMP implementation.
- Over 1200 stormwater inspections of construction sites under County jurisdiction were conducted.
- Coordinated development of the countywide *Construction Runoff Guidance Manual* for distribution at development processing counters.
- Conducted multiple trainings for 126 construction inspection staff.

### **Existing Development (Section C-9)**

- Completion of inventory and prioritization of 26 industrial and 143 commercial businesses for inspection and BMP implementation.
- Outreach presentations were made to three business groups.
- The County coordinated with Santa Margarita Water District (SMWD) initiated to combine water quality and water conservation messages to Homeowner Associations (HOAs) in the SMWD service area.

### **Illegal Discharges/Illicit Connections (Section C-10)**

- 146 pollution complaints/notifications received involving area under the County's jurisdiction.
- 17 illicit connections identified and mitigated.
- Investigations led to the criminal prosecution of three separate businesses during the reporting period for stormwater violations including felony convictions in one case.

### **Water Quality Monitoring (Section C-11)**

- The County coordinates the countywide monitoring program under the Third Term Permits – the new monitoring program has been initiated in the San Diego Region and is pending approval in the Santa Ana Region.

### **Watershed Management (Section C-12)**

- Coordinated watershed activities on a countywide basis.
- Lead the development of the Watershed Chapters, DAMP **Appendix D**, for the watersheds in the San Diego Region.



## CONCLUSION AND RECOMMENDATIONS

---

### **2002/03 Program Effectiveness Assessment (PEA) Conclusion and Recommendations**

As discussed in the **Executive Summary**, this PEA spans a reporting period of July 1, 2002 through June 30, 2003 and bridges a transition from the programs of the 1993 Drainage Area Management Plan (DAMP) developed under the First and Second Term Permits, to the programs of the 2003 DAMP which have been enhanced to comply with the Third Term Permits adopted in early 2002. Implementation of the enhanced programs within the San Diego Region of the County's jurisdiction commenced with the submittal of the County's LIP to the San Diego Regional Board on February 13, 2003. The date for implementation of the majority of the enhanced programs within the Santa Ana Region of the County's jurisdiction was July 1, 2003 and the submittal of this report on November 15, 2003 marks the first opportunity for the Santa Ana Regional Board to review the County's LIP as well as the 2003 DAMP.

The result is that the reporting period for this PEA covers slightly more than four months of implementation of the enhanced programs within the San Diego Region of the County's jurisdiction and very limited implementation of the enhanced programs within the Santa Ana Region of the County's jurisdiction.

The primary challenge the County faced in developing the 2002/03 PEA is determining how to provide meaningful performance measurement at such an early stage of program implementation. For example, in assessing effectiveness of the County's Existing Development Program (**Section C-9**) indirect program measures such as the number of commercial inspections and resulting enforcement actions are presented. Without past data available however, it becomes difficult to analyze trends and offer conclusions on program effectiveness. Each successive year of program implementation under the Third Term Permits will provide the County with more information with which to evaluate the effectiveness of the new stormwater program elements.

The major conclusions that can be drawn at this stage of program implementation under the Third Term Permits are as follows:

- 1) All County submittals have been made in compliance with the schedules in the Third Term Permits
- 2) Significant program revisions have been undertaken by the County based on model programs developed with the other Permittees and these have been submitted to the Regional Boards for review and/or approval
- 3) The County has responded in a timely manner to feedback and requests for program modifications from the Regional Boards.
- 4) Implementation of the new programs has been initiated but, in most cases, immediate progress measures are not available. One exception is public education where the County individually obtained over 1.2 million impressions, a statistic not previously tracked.



## CONCLUSION AND RECOMMENDATIONS

---

The County's recommendations at this stage of program implementation under the Third Term Permits are as follows:

- 1) Continue implementation of the new programs through 2003/04 which will mark the first reporting period for which a full year of direct and indirect progress measures can be made.
- 2) Continue to assess program effectiveness by linking management program implementation to water quality monitoring data trends and other direct measures of progress.
- 3) Continue to assess program effectiveness by tracking trends in indirect measures made on an annual basis such as the number of public education impressions achieved, the amount of litter and debris removed from the stormdrain system, etc.