

UNIFIED ANNUAL PROGRESS REPORT PROGRAM EFFECTIVENESS ASSESSMENT (Santa Ana Region)

2004-2005 Reporting Period



November 15, 2005



A COOPERATIVE PROJECT OF THE COUNTY OF
ORANGE, THE CITIES OF ORANGE COUNTY, AND
THE ORANGE COUNTY FLOOD CONTROL DISTRICT

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2004-2005 Unified Annual Progress Report

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(³ Bound separately)

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EXECUTIVE SUMMARY

The purpose of this document is to comply with the Third Term Permits, Regional Water Quality Control Board Orders R8-2002-0010 (Santa Ana Regional Board) and R9-2002-0001 (San Diego Regional Board) which require annual submittal by November 15 of a progress report. This Report discusses the Permittees' Third Term Permit compliance activities over the period July 1, 2004 to June 30, 2005, and includes a description of all activities that were conducted during the reporting period and an assessment of program effectiveness

The organization of the report reflects the organization of the 2003 Drainage Area Management Plan (DAMP). Due to the complexity of the Third Term Permits, Local Implementation Plans (LIPs) were created to provide for a jurisdiction-specific plan within the broader policy and program framework of the DAMP. Consequently, the Annual Progress Report, which is now an integral part of the Program Effectiveness Assessment (PEA) includes: jurisdictional assessments completed individually by each Permittee (See **Exhibits**); watershed assessments based on the DAMP/Watershed Chapters completed to date for the San Diego Regional Board Permittees and a countywide assessment in this Unified Annual Progress Report.

The activities undertaken during this reporting period essentially mark the second year of full implementation of a program that was substantially revised to meet the requirements of the Third Term Permits. Notable programmatic accomplishments that occurred during the reporting period include:

- Implementation of a re-aligned management framework, including a LIP/PEA Committee, Water Use Efficiency Task Force and Ad-Hoc Group (Wastewater Disposal) (**DAMP Section 2.0**);
- Major resource commitments to advancing stormwater science (**DAMP Section 3.0**);
- Commencement and completion of special planning studies to evaluate the effectiveness and applicability of various source control and treatment control Best Management Practices (**DAMP Section 3.0**);
- Implementation of enhanced cooperative local agency procedures and practices for sewage spill response (**Section C-10.0**);
- Implementation of the DAMP/Watershed Chapters in the San Diego Regional Board area (**Section C-12.0**) and significant progress toward completion of Chapters for the Newport Bay and Santa Ana River watersheds;
- Implementation of an internet-based annual reporting system;
- Development and implementation of formalized training elements across a number of program areas (multiple Sections), and
- Participation with the California Stormwater Quality Association in the development of a White Paper – An Introduction to Stormwater Program Effectiveness Assessment.

To provide a basis for annual PEAs, the Permittees have selected a series of Headline Measures, comprising *Process* and *Result* (both *Direct* and *Indirect*) based indices to respectively verify program implementation and ultimately validate achievement of program goals. The choice of indices necessarily recognizes that scientifically robust evidence of improved water quality will follow confirmation of program implementation and should not be expected to be evident initially.

EXECUTIVE SUMMARY

While evidence of the connection between programmatic activities and changing environmental conditions remains elusive, the Permittees believe that there is strong evidence of increasing program effectiveness. Indeed, compared to the previous reporting period this year's PEA shows:

- Continued high level of participation by the Permittees in the General Permittee Committee and supporting management framework (see **Section C-1.0**);
- Significant program investment by the Permittees of \$76.3m (see **Section C-2.0**);
- A 9.8% increase in the amount of household hazardous waste (up from 5,741,522 pounds to 6,303,938 pounds) taken to collection centers (see **Section C-5.0**);
- Reduction for a third consecutive year in the total amount of nitrogen fertilizer and pesticides applied to public land (see **Section C-5.0**);
- The achievement of over 80,000,000 impressions in the Countywide public education effort compared to 45,000,000 impressions last year and 37,000,000 impressions in the 2002-03 reporting period (see **Section C-6.0**), and
- Reductions in the number of complaints reported to the Permittees and use of the enforcement tools provided by the Permittees' local Water Quality Ordinances indicating increased levels of compliance (see **Section C-10.0**).

In addition key baseline data has been compiled on a jurisdictional, watershed and countywide basis for future comparative assessment in the areas of municipal activities, new development, construction and existing development.

With respect to water quality monitoring (see **Section C-11.0**):

- The Second Permit Term Monitoring Program in the Santa Ana Regional Board area was continued while concurrently gaining approval of the Third term Monitoring Program;
- LabTrak, the water quality data management system, was brought fully on-line, allowing improved integration of water quality monitoring, hydrographic monitoring and program management;
- The Third Permit Term Monitoring Program in the San Diego Regional Board area completed its second full year allowing significantly improved statistical evaluations of progress, including new analysis approaches for estimating annual loads, evaluating recreational impacts in the coastal zone, and prioritizing stormdrain outfalls; estimating the degree of unexplained toxicity, and displaying the results of bioassessment monitoring; and
- The Dry Season Reconnaissance Program information distribution was improved allowing immediate follow-up to poor water quality and, in limited cases, the identification of pollution sources.

ACRONYMS

AB	Assembly Bill
AI	Authorized Inspectors
APWA	American Public Works Association
AQMD	Air Quality Management District
BIA	Building Industry Association
BMP	Best Management Practice
CAP	Household Hazardous Waste Community Awareness Program
CAR	Critical Aquatic Resources
CCR	California Code of Regulations
CCTV	Closed Circuit Television
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHP	California Highway Patrol
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
DA	District Attorney
DAMP	Drainage Area Management Plan
DHS	Department of Health Services
DMV	Department of Motor Vehicles
DOT	Department of Transportation
DTSC	California Department of Toxic Substance Control
EA	Enforcing Attorney
ECG	Enforcement Consistency Guide
EOC	Emergency Operations Center
EPA	Environmental Protection Agency
EPR	Environmental Performance Reporting
ERP	Enforcement Response Plan
ESA	Environmentally Sensitive Area
F&G	California Department of Fish & Game
GIS	Geographic Information System
HAZMAT	Hazardous Materials
HCA	Health Care Agency
HHW	Household Hazardous Waste
HMI	Hazardous Materials Incident
HWI	Hazardous Waste Inspector
IC	Incident Commander
IPM	Integrated Pest Management
IRWD	Irvine Ranch Water District
IWMD	Integrated Waste Management Department
JPA	Joint Powers Authorities
JURMP	Jurisdictional Urban Runoff Management Plan
LIP	Local Implementation Plan
MCAS	Marine Corp Air Station
MEP	Maximum Extent Practicable
MOU	Memorandum of Understanding
MRP	Monitoring and Reporting Programs
MS4	Municipal Separate Storm Sewer

ACRONYMS

NC	Non-compliance
NPDES	National Pollutant Discharge Elimination System
OC	County of Orange
OCC	Orange County Code
OCFCD	Orange County Flood Control District
OCSO	Orange County Sanitation District
OES	Office of Emergency Services
OSHA	Occupational Safety and Health Act
PFRD	Public Facilities & Resources Department
PNIR	Pollution Notification/Investigation Request
PPE	Personal Protective Equipment
PWC	Public Works Crew
PWD	Public Works Department
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
ROWD	Report of Waste Discharge
RP	Responsible Party
RPS	Regional Pump Stations
RWQCB	Regional Water Quality Control Board
SA	Santa Ana
SCAG	Southern California Association of Governments
SCCWRP	Southern California Coastal Waters Research Program
SD	San Diego
SIC	Standard Industrial Classification Code
SOCWA	South Orange County Wastewater Authority
SR	Spill Responder
SSMP	Sewer System Management Plans
SSO	Sanitary Sewer Overflow
SUSMP	Standard Urban Storm Water Mitigation Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Technical Advisory Committee
TMDL	Total Maximum Daily Load
UHWM	Uniform Hazardous Waste Manifest
USAF	United States Air Force
USCG	United States Coast Guard
WDR	Waste Discharge Requirement
WQMP	Water Quality Management Plan
WSPA	Western States Petroleum Association