

# THE COUNTY OF ORANGE AND THE ORANGE COUNTY FLOOD CONTROL DISTRICT



2007 DAMP  
APPENDIX A

## STORMWATER PROGRAM LOCAL IMPLEMENTATION PLAN



2010-2011

"FINDING SOURCES OF POLLUTION AND ABATING THEM"





# Table of Contents

## ACRONYMS AND GLOSSARY

## EXECUTIVE SUMMARY

## SIGNED CERTIFIED STATEMENT

<b>Section A-1.0</b>	<b>INTRODUCTION .....</b>	<b>A-1-1</b>
A-1.1	Background .....	A-1-1
A-1.2	Regulatory Requirements.....	A-1-1
A-1.3	Objectives of the Local Implementation Plan.....	A-1-2
A-1.4	Permittee Commitments.....	A-1-3
A-1.5	DAMP/LIP Coverage .....	A-1-3
A-1.6	Description of Drainage Area and Climate.....	A-1-3
A-1.6.1	Geography and Climate .....	A-1-3
A-1.6.2	Watersheds.....	A-1-4
A-1.6.3	Environmentally Sensitive Areas (ESAs)/Impaired Waters.....	A-1-6
A-1.7	Model Programs .....	A-1-11
A-1.8	Program Assessment and Modification .....	A-1-12
<b>Section A-2.0</b>	<b>PROGRAM MANAGEMENT .....</b>	<b>A-2-1</b>
A-2.1	Introduction.....	A-2-1
A-2.2	Major Management Activities .....	A-2-1
A-2.2.1	Management Framework .....	A-2-2
A-2.2.2	Agreement for Program Implementation.....	A-2-13
A-2.2.3	NPDES Permit Responsibilities .....	A-2-13
A-2.2.4	NPDES Reporting Requirements.....	A-2-14
<b>Section A-3.0</b>	<b>PLAN DEVELOPMENT.....</b>	<b>A-3-1</b>
A-3.1	Introduction.....	A-3-1
A-3.2	Regulatory Requirements.....	A-3-1
A-3.3	Plan Development .....	A-3-2
A-3.3.1	Approach to Plan Development and Improvement.....	A-3-2
A-3.3.2	Methodology for Examining Retrofit Opportunities .....	A-3-2
A-3.3.3	BMP Selection and Effectiveness Assessment.....	A-3-2
A-3.3.4	Plan Revision .....	A-3-9
A-3.4	Funding of Structural Controls.....	A-3-9
A-3.5	Employees Training and Outreach .....	A-3-9
<b>Section A-4.0</b>	<b>LEGAL AUTHORITY .....</b>	<b>A-4-1</b>
A-4.1	Introduction.....	A-4-1
A-4.2	Regulatory Requirements.....	A-4-1
A-4.3	Authority to Control Pollutant Discharges.....	A-4-1
A-4.3.1	Other County Pollution Prevention Codes/Ordinances.....	A-4-2



## Table of Contents (cont'd)

A-4.4	Enforcement .....	A-4-3
A-4.5	Assessment .....	A-4-4
<b>Section A-5.0</b>	<b>MUNICIPAL ACTIVITIES.....</b>	<b>A-5-1</b>
A-5.1	Program Summary .....	A-5-1
A-5.1.1	Program Overview.....	A-5-1
A-5.1.2	Program Commitments.....	A-5-5
A-5.1.3	Regulatory Requirements .....	A-5-5
A-5.2	Model Municipal Activity Program Details .....	A-5-5
A-5.2.1	Municipal Inventories.....	A-5-5
A-5.2.2	Prioritization .....	A-5-6
A-5.2.3	Model Maintenance Procedures.....	A-5-6
A-5.2.4	Municipal Inspection and Requirements.....	A-5-7
A-5.3	Implementing an Integrated Pest Management Policy .....	A-5-10
A-5.4	Education and Training.....	A-5-10
<b>Section A-6.0</b>	<b>PUBLIC EDUCATION .....</b>	<b>A-6-1</b>
A-6.1	Program Summary .....	A-6-1
A-6.1.1	Program Overview.....	A-6-1
A-6.1.2	Program Commitments.....	A-6-1
A-6.1.3	Regulatory Requirements .....	A-6-2
A-6.2	Model Public Education Program.....	A-6-2
A-6.2.1	Multi-media Outreach Program.....	A-6-3
A-6.2.2	Non-media Outreach Program.....	A-6-3
A-6.2.3	School Outreach.....	A-6-3
A-6.2.4	Pollutant-specific Outreach .....	A-6-4
A-6.2.5	Business-specific Outreach .....	A-6-4
A-6.2.6	Mobile Business Program .....	A-6-4
A-6.2.7	Residential Program .....	A-6-4
A-6.2.8	Common Interest Areas/Homeowner Association Activities Program .....	A-6-5
A-6.3	County Education Program .....	A-6-5
A-6.3.1	Workshops .....	A-6-5
A-6.3.2	Outreach Events .....	A-6-6
A-6.3.3	Industrial/Commercial and Construction Outreach .....	A-6-6
A-6.3.4	Outreach to Quasi-Governmental Agencies/Districts .....	A-6-7
A-6.3.5	Residential, General Public and School Outreach.....	A-6-8
<b>Section A-7.0</b>	<b>NEW DEVELOPMENT/SIGNIFICANT REDEVELOPMENT .....</b>	<b>A-7-1</b>
A-7.1	Introduction.....	A-7-1
A-7.2	Organization Structure .....	A-7-3
A-7.3	General Plan Assessment and Amendment .....	A-7-5



## Table of Contents (cont'd)

---

A-7.4	CEQA Environmental Review Process .....	A-7-6
A-7.4.1	Environmental Information Form.....	A-7-6
A-7.4.2	Initial Study Checklist .....	A-7-6
A-7.4.3	Guidance for Preparing and Reviewing CEQA Initial Studies And Environmental Impact Reports (EIRs).....	A-7-7
A-7.5	Development Project Review, Approval and Permitting.....	A-7-8
A-7.5.1	Project Review, Approval, and Permitting Process Overview .....	A-7-8
A-7.5.2	Public Agency Projects .....	A-7-10
A-7.5.3	Conditions of Approval.....	A-7-11
A-7.5.4	Review and Approval of WQMPs .....	A-7-14
A-7.5.5	Plan Check: Issuance of Grading or Building Permits.....	A-7-16
A-7.5.6	Permit Closeout, Certificates of Use, and Certificates of Occupancy .....	A-7-19
A-7.6	Water Quality Management Plan (WQMP) Preparation.....	A-7-21
A-7.7	Post Construction BMP Inspection and Verification .....	A-7-29
A-7.8	Education and Training .....	A-7-30
A-7.8.1	Training Modules .....	A-7-30
A-7.8.2	Record Keeping .....	A-7-31
A-7.9	Program Effectiveness Assessment.....	A-7-31
<b>Section A-8.0</b>	<b>CONSTRUCTION COMPONENT .....</b>	<b>A-8-1</b>
A-8.1	Program Summary .....	A-8-1
A-8.1.1	Program Overview.....	A-8-1
A-8.1.2	Program Commitments .....	A-8-3
A-8.1.3	Regulatory Requirements .....	A-8-3
A-8.2	Model Construction Program .....	A-8-4
A-8.2.1	Model Program Overview .....	A-8-4
A-8.2.2	Inventory of Construction Sites.....	A-8-4
A-8.2.3	Prioritization of Construction Projects.....	A-8-4
A-8.2.4	BMPs for Construction Projects .....	A-8-4
A-8.2.5	Documentation Requirements.....	A-8-8
A-8.2.6	Municipal Inspections and Enforcement .....	A-8-9
A-8.3	Education and Training.....	A-8-12
A-8.3.1	Training Modules.....	A-8-12
<b>Section A-9.0</b>	<b>EXISTING DEVELOPMENT .....</b>	<b>A-9-1-1</b>
A-9.1	Program Summary .....	A-9-1-1
A-9.1.1	Overview .....	A-9-1-1
A-9.1.2	Program Commitments .....	A-9-1-3
A-9.1.3	Regulatory Requirements .....	A-9-1-3
A-9.2	Industrial/Commercial Program .....	A-9-2-3
A-9.2.1	Source Identification and Facility Inventory .....	A-9-2-4
A-9.2.2	Prioritization for Inspection.....	A-9-2-5



## Table of Contents (cont'd)

A-9.2.3	BMP Implementation.....	A-9.2-6
A-9.2.4	Inspection, Monitoring, and Enforcement.....	A-9.2-12
	A-9.2.4.1 Inspection.....	A-9.2-12
	A-9.2.4.2 Monitoring.....	A-9.2-14
	A-9.2.4.3 Enforcement.....	A-9.2-14
A-9.2.5	Outreach and Education.....	A-9.2-15
A-9.3	Food Facility Inspection Program.....	A-9.3-15
A-9.4	Mobile Business Program.....	A-9.4-16
	A-9.4.1 Mobile Business Inventory.....	A-9.4-16
	A-9.4.2 BMP Implementation.....	A-9.4-17
	A-9.4.3 Inspections/Self-certifications.....	A-9.4-17
	A-9.4.4 Enforcement.....	A-9.4-17
A-9.5	Residential Program.....	A-9.5-18
	A-9.5.1 Program Overview.....	A-9.5-18
	A-9.5.2 Source Identification and Inventory.....	A-9.5-18
	A-9.5.3 BMP Requirements.....	A-9.5-19
	A-9.5.4 Program Implementation.....	A-9.5-20
	A-9.5.5 Enforcement.....	A-9.5-21
A-9.6	Common Interest Area/Homeowners Association Activities Program.....	A-9.6-21
	A-9.6.1 Program Overview.....	A-9.6-21
	A-9.6.2 Current Practices and Activities of Concern.....	A-9.6-21
	A-9.6.3 Prioritization of Locations.....	A-9.6-22
	A-9.6.4 BMP Implementation.....	A-9.6-23
	A-9.6.5 Implementation Strategy.....	A-9.6-24
	A-9.6.6 Enforcement.....	A-9.6-25
A-9.7	Retrofitting Existing Development Program.....	A-9.7-25
	A-9.7.1 Source Identification.....	A-9.7-26
	A-9.7.2 Prioritization of Retrofitting Projects.....	A-9.7-26
	A-9.7.3 Regional BMP Retrofit Projects.....	A-9.7-27
A-9.8	Training Program Details.....	A-9.8-28
	A-9.8.1 Training Modules.....	A-9.8-28
<b>Section A-10.0</b>	<b>ILLEGAL DISCHARGES AND ILLICIT CONNECTIONS.....</b>	<b>A-10-1</b>
A-10.1	Program Summary.....	A-10-1
	A-10.1.1 Program Overview.....	A-10-1
	A-10.1.2 Program Commitments.....	A-10-1
	A-10.1.3 Regulatory Requirements.....	A-10-1
	A-10.1.4 Program Evaluation and Assessment.....	A-10-2
A-10.2	Illegal Discharges/Illicit Connections Program.....	A-10-2
	A-10.2.1 Program Introduction.....	A-10-2
	A-10.2.2 Program Administration and Implementation.....	A-10-2
	A-10.2.3 Detection and Elimination of Illegal Discharges.....	A-10-5
	A-10.2.4 Model Pollution Investigation and Spill Response Procedures (Excluding Sewage Spills).....	A-10-5
	A-10.2.5 Model Sewage Spill Response Procedures.....	A-10-12



## Table of Contents (cont'd)

A-10.2.6	Illicit Connections Investigations.....	A-10-15
A-10.2.7	Source Investigations.....	A-10-15
A-10.3	Education and Enforcement.....	A-10-17
A-10.3.1	Introduction.....	A-10-17
A-10.3.2	Choosing the Type of Enforcement.....	A-10-18
A-10.4	Training.....	A-10-20
A-10.4.1	Training Modules.....	A-10-20
A-10.4.2	Training Records.....	A-10-21
<b>Section A-11.0</b>	<b>WATER QUALITY MONITORING.....</b>	<b>A-11-1</b>
A-11.1	Monitoring and Follow-Up Activity Carried Out by the County as Principal Permittee.....	A-11-1
A-11.2	Jurisdictional Monitoring and Follow-Up Activity by the County.....	A-11-4
A-11.3	Reporting.....	A-11-5
<b>Section A-12.0</b>	<b>WATERSHEDS.....</b>	<b>A-12-1</b>
 <b>EXHIBITS</b>		
 <b>Section A-4.0, Legal Authority</b>		
	Letters of Legal Authority.....	Exhibit A-4.I
 <b>Section A-5.0, Municipal Activities</b>		
	Municipal Inventories.....	Exhibit A-5.I
	Prioritization.....	Exhibit A-5.II
	Model Maintenance Procedures.....	Exhibit A-5.III
	Inspection Forms.....	Exhibit A-5.IV
 <b>Section A-8.0, Construction</b>		
	Construction Inventories.....	Exhibit A-8.I
	Construction BMP Fact Sheets.....	Exhibit A-8.II
	Inspection Forms.....	Exhibit A-8.III
 <b>Section A-9.0, Existing Development</b>		
	Existing Development Inventories.....	Exhibit A-9.I
	Existing Development BMP Fact Sheets.....	Exhibit A-9.II
	Inspection Forms/Procedures.....	Exhibit A-9.III



## Acronyms

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<b>303(d)</b>	Section of Clean Water Act Requiring EPA to Prepare a List of Impaired Waters
<b>ACL</b>	Administrative Civil Liability
<b>ACO</b>	Administrative Compliance Order
<b>ADT</b>	Average Daily Traffic
<b>AI</b>	Authorized Inspector
<b>APWA</b>	American Public Works Association
<b>ASBS</b>	Area of Special Biological Significance
<b>AQMD</b>	Air Quality Management District
<b>BAT</b>	Best Available Technology
<b>BCT</b>	Best Conventional Technology
<b>BIA</b>	Building Industry Association
<b>BMP</b>	Best Management Practice
<b>BTO</b>	Bay-to-Ocean
<b>CALEMA</b>	California Emergency Management Agency
<b>CALSWIM</b>	California Sustainable Watershed/Wetland Informational Manager
<b>CAP</b>	Community Awareness Program
<b>CAR</b>	Critical Aquatic Resources
<b>CASC</b>	Countywide Area Spill Control Program
<b>CASQA</b>	California Stormwater Quality Association
<b>CC&amp;Rs</b>	Covenants, Codes & Restrictions
<b>CDFG</b>	California Department of Fish & Game
<b>CEQA</b>	California Environmental Quality Act
<b>CFR</b>	Code of Federal Regulations
<b>CGP</b>	Construction General Permit
<b>CHP</b>	California Highway Patrol
<b>CIA</b>	Common Interest Areas
<b>CUPA</b>	Certified Unified Program Agency
<b>CWA</b>	Clean Water Act
<b>DA</b>	District Attorney
<b>DAMP</b>	Drainage Area Management Plan
<b>DCIA</b>	Directly Connected Impervious Area
<b>DHS</b>	Department of Health Services
<b>DMV</b>	Department of Motor Vehicles
<b>DOT</b>	Department of Transportation
<b>DTSC</b>	Department of Toxic Substance Control
<b>EA</b>	Enforcing Attorney
<b>ECG</b>	Enforcement Consistency Guide
<b>EHS</b>	Environmental Health Services
<b>EOC</b>	Emergency Operations Center
<b>EPA</b>	Environmental Protection Agency
<b>EPR</b>	Environmental Performance Reporting
<b>ERP</b>	Enforcement Response Plan
<b>ESA</b>	Environmentally Sensitive Area
<b>GIS</b>	Geographic Information System
<b>GPS</b>	Global Positioning System



## Acronyms

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<b>HAZMAT</b>	Hazardous Materials
<b>HCA</b>	Health Care Agency
<b>HHW</b>	Household Hazardous Waste
<b>HMI</b>	Hazardous Materials Incident
<b>HMP</b>	Hydromodification Management Plan
<b>HOA</b>	Homeowner's Association
<b>HWI</b>	Hazardous Waste Inspector
<b>IBI</b>	Index of Biological Integrity
<b>IC</b>	Incident Commander
<b>ID/IC</b>	Illegal Discharge/Illicit Connection
<b>IPM</b>	Integrated Pest Management
<b>IRWD</b>	Irvine Ranch Water District
<b>IRWMP</b>	Integrated Regional Water Management Plan
<b>JPA</b>	Joint Powers Authorities
<b>JRMP</b>	Jurisdictional Runoff Management Plan
<b>LID</b>	low Impact Development
<b>LIP</b>	Local Implementation Plan
<b>LC</b>	LIP Coordinator
<b>LRP</b>	Legally Responsible Person
<b>MDAL</b>	Maximum Daily Action Level
<b>MEP</b>	Maximum Extent Practicable
<b>MOU</b>	Memorandum of Understanding
<b>MRP</b>	Monitoring and Reporting Programs
<b>MS4</b>	Municipal Separate Storm Sewer System
<b>NAL</b>	Numeric Action Level
<b>NEL</b>	Numeric Effluent Limit
<b>NNC</b>	Notice of Non-compliance
<b>NCCP</b>	Natural Community Conservation Planning Program
<b>NOI</b>	Notice of Intent
<b>NOT</b>	Notice of Termination
<b>NPDES</b>	National Pollutant Discharge Elimination System
<b>OC</b>	Orange County
<b>OCC</b>	Orange County Code
<b>OCFA</b>	Orange County Fire Authority
<b>OCFCD</b>	Orange County Flood Control District
<b>OCSD</b>	Orange County Sanitation District
<b>OCW</b>	OC Watersheds (Formerly Watershed & Coastal Resources)
<b>O&amp;M</b>	Operations & Maintenance
<b>PEA</b>	Program Effectiveness Assessment
<b>PNIR</b>	Pollution Notification/Investigation Request
<b>PPE</b>	Personal Protective Equipment
<b>QA/QC</b>	Quality Assurance/Quality Control
<b>QSD</b>	Qualified SWPPP Developer
<b>QSP</b>	Qualified SWPPP Practitioner
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>ROWD</b>	Report of Waste Discharge





## Acronyms

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<b>RP</b>	Responsible Party
<b>SAL</b>	Stormwater Action Level
<b>SAR</b>	Santa Ana Region
<b>SCAG</b>	Southern California Association of Governments
<b>SCCWRP</b>	Southern California Coastal Water Research Project
<b>SDR</b>	San Diego Region
<b>SIC</b>	Standard Industrial Classification Code
<b>SMARTS</b>	Stormwater Multi Application & Report Tracking System
<b>SMC</b>	Stormwater Monitoring Coalition
<b>SOCWA</b>	South Orange County Wastewater Authority
<b>SR</b>	Spill Responder
<b>SSO</b>	Sanitary Sewer Overflow
<b>SOCWA</b>	South Orange County Wastewater Authority
<b>SR</b>	Spill Responder
<b>SSMP</b>	Sewer System Management Plan
<b>SSO</b>	Sanitary Sewer Overflow
<b>SUSMP</b>	Standard Urban Storm Water Mitigation Plan
<b>SWPPP</b>	Stormwater Pollution Prevention Plan
<b>SWRCB</b>	State Water Resources Control Board
<b>TAC</b>	Technical Advisory Committee
<b>TMDL</b>	Total Maximum Daily Load
<b>UCI</b>	University of California, Irvine
<b>UHWM</b>	Uniform Hazardous Waste Manifest
<b>WAP</b>	Watershed Action Plan (Formerly Watershed Urban Runoff Management Plan)
<b>WDR</b>	Waste Discharge Requirement
<b>WLA</b>	Waste Load Allocation
<b>WQMP</b>	Water Quality Management Plan
<b>WSPA</b>	Western States Petroleum Association
<b>WWP</b>	Watershed Work Plan



## Glossary

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### **1993 DAMP**

A document required under the First Term Permits issued by the Santa Ana and San Diego Regional Boards. This document is the principal policy and guidance document for the countywide NPDES Stormwater Program.

### **2000 DAMP**

An updated version of the 1993 DAMP. Submitted in draft form as the proposed plan for the 2000 Report of Waste Discharge submittal.

### **2003 DAMP**

The final, updated version of the 1993 DAMP which was submitted in draft form in 2000 as the proposed plan for the 2000 Report of Waste Discharge (2000 DAMP). This document incorporates the Third Term Permit requirements and is the principal policy and guidance document for the countywide NPDES Stormwater Program.

### **2007 DAMP**

The proposed, updated and revised version of the 2003 DAMP submitted to the Santa Ana and San Diego Regional Boards as the 2007 Report of Waste Discharge in July of 2007, to initiate the permit renewal process as required by the Third Term Permits.

### **Beneficial Uses**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002) -* Uses of water necessary for the survival or well being of man, plants, and wildlife. These uses of water serve to promote tangible and intangible economic, social, and environmental goals. "Beneficial Uses" of waters of the State that may be protected include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preserves. Existing beneficial uses are uses that were attained in the surface or ground water on or after November 28, 1975; and potential beneficial uses are uses that would probably develop in future years through the implementation of various control measures. "Beneficial Uses: are equivalent to "Designated Uses" under federal law. [California Water Code Section 13050(f)].

### **Best Management Practice (BMP)**

A technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of stormwater runoff in the most cost-effective manner.

### **Bioassessment**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)-* The use of biological community information to evaluate the biological integrity of a water body and its watershed. With respect to aquatic ecosystems, bioassessment is the collection and analysis of samples of the benthic macroinvertebrate community together with physical/habitat quality measurements associated with the sampling site and the watershed to evaluate the biological condition of a water body.



## Glossary

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### **Clean Water Act and Amendments**

The Federal Pollution Control Act (Public Law 92-500), as amended (33 U.S.C. 1251 et seq.). Federal regulation mandating a National Pollutant Discharge Elimination System permit for discharges into the Waters of the United States. The goals of the act are to restore and maintain the chemical, physical and biological integrity of the nation's waters.

### **Construction Project/Site**

*As defined in Section VIII of the Santa Ana Region MS4 Permit (Order No. R8-2009-0030)–*

Any site for which building or grading permits have been issued and where activities at the site include: soil movement; uncovered storage of materials or wastes, such as dirt, sand or fertilizer; exterior mixing of cementaceous products, such as concrete, mortar or stucco.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)–*

Any project, including projects requiring coverage under the General Construction Permit, that involves soil disturbing activities including, but not limited to, clearing, grading, disturbances to ground such as stockpiling, and excavation.

### **Construction General Permit**

The NPDES general permit for stormwater discharges associated with construction activity. SWRCB Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002 or its subsequent replacement.

### **Control Measures**

Major groupings of the specific BMPs that are developed and implemented for a program element. There are typically several control measures for each program element.

### **Discharging Directly**

*As defined in Section XII.B.2 of the Santa Ana Region MS4 Permit (Order No. R8-2009-0030)–*

A drainage or conveyance which carries flows entirely from the subject development and not commingled with other flows.

### **Dry Season**

May 1 through September 30 of each year.

### **Dry Weather**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)–*

Weather is considered dry if the preceding 72 hours has been without precipitation.

### **Effectiveness Assessment**

The process that is used to evaluate if the programs are resulting in desired outcome levels.



## Glossary

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### **Outcome Levels**

Outcomes are the results of implementing a stormwater control measure, program element or overall program. Outcomes are categorized in terms of six outcome levels, which can have implementation or water quality endpoints.

#### **Effectiveness Assessment Outcome Level 1 (Documenting Activities)**

At Level 1, the desired outcome is the development and implementation of a program or control measure.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- Compliance with Activity-based Permit Requirements- Level 1 outcomes are those directly related to the implementation of specific activities prescribed by this Order or established pursuant to it.*

#### **Effectiveness Assessment Outcome Level 2 (Raising Awareness)**

At Level 2, programs and control measures focus on raising the awareness and understanding of a target audience on a particular issue.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- Changes in Attitudes, Knowledge, and Awareness - Level 2 outcomes are measured as increases in knowledge and awareness among target audiences such as residents, businesses, and municipal employees.*

#### **Effectiveness Assessment Outcome Level 3 (Changing Behavior)**

At Level 3, programs and control measures focus on providing the information, tools, and incentives for target audiences to take action by changing behavior and implementing recommended practices.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- Behavioral Change and BMP Implementation - Level 3 outcomes measure the effectiveness of activities in affecting behavioral change and BMP implementation.*

#### **Effectiveness Assessment Outcome Level 4 (Reducing Loads from Sources)**

At Level 4, programs and control measures collect data to allow estimation of loads from pollutant sources that are prevented from being either generated (reduction in use) or discharges to the stormdrain system.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- Load Reductions - Level 4 outcomes measure load reductions which quantify changes in the amounts of pollutants associated with specific sources before and after a BMP or other control measure is employed.*

#### **Effectiveness Assessment Outcome Level 5 (Improving Runoff Quality)**

At Level 5, the goal is to improve the quality of discharges from the stormdrain system.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- Changes in Runoff and Discharge Quality - Level 5 outcomes are measured as changes in one or more specific constituents or stressors in discharges into or from MS4s.*



## Glossary

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### **Effectiveness Assessment Outcome Level 6 (Protecting Receiving Water Quality)**

At Level 6, the goal is to maintain and/or improve receiving water quality. The focus is typically on compliance with regulatory objectives, protection of biological integrity, and beneficial use attainment.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Changes in Receiving Water Quality – Level 6 outcomes measure changes to receiving water quality resulting from discharges into and from MS4s, and may be expressed through a variety of means such as compliance with water quality objectives or other regulatory benchmarks, protection of biologic integrity, or beneficial use attainment.

### **Environmentally Sensitive Areas**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Areas that include but are not limited to all Clean Water Act 303(d) impaired water bodies ; areas designated as Areas of Special Biological Significance by the State Water Resources Control Board (Water Quality Control Plan for the San Diego Basin (1994) and amendments); State Water Quality Protected Areas; water bodies designated with the RARE beneficial use by the State Water Resources Control Board (Water Quality Control Plan for the San Diego Basin (1994) and amendments); areas designated as preserves or their equivalent under the Natural Communities Conservation Program within the Cities and County of Orange; and any other equivalent environmentally sensitive areas which have been identified by the Copermittees.

*As defined in Section XII.B of the Santa Ana Region MS4 Permit (Order No. R8-2009-0030)* – Areas designated in the Ocean Plan as Areas of Special Biological Significance or waterbodies listed on the CWA Section 303(d) list of impaired water bodies.

### **First Term Permits**

The Regional Boards issued Municipal Stormwater Permits No. CA 8000180 and No. CA 0108740 to the Permittees in 1991 for the period from 1990 – 1996.

### **Fourth Term Permits**

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 2009, Santa Ana Region Order No. R8-2009-0030 and San Diego Region Order No. R9-2009-0002, which will cover the time period from 2009-2014.

### **General Industrial Permit**

The NPDES general permit for stormwater discharges associated with industrial activity. SWRCB Order No. 97-03 DWQ, NPDES General Permit No. CAS000001 or its subsequent replacement.

### **General Permittee Committee**

The committee made up of a representative from each of the Permittees that provides the overall guidance for the NPDES Stormwater Program.



## Glossary

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### **Headline Indicator**

A sub-set of measures that reflect, in simple terms, how a stormwater program is progressing towards its goals and are easily understandable.

### **Hydromodification**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– The change in the natural watershed hydrologic processes and runoff characteristics (i.e., interception, infiltration, overland flow, interflow and groundwater flow) caused by urbanization or other land uses changes that result in increase stream flows and sediment transport. In addition, alteration of stream and river channels, installation of dams and water impoundments, and excessive streambank and shoreline erosion are also considered hydromodification, due to their disruption of natural watershed hydrologic processes.

### **Illegal Discharge**

Any discharge to a municipal separate storm sewer that is not composed entirely of stormwater and that is not covered by an NPDES permit or identified in the MS4 Permits as an allowed discharge.

### **Illicit Connection**

Any man-made conveyance or drainage system, pipeline, conduit, inlet or outlet, through which the discharge of any pollutant to the stormwater drainage system occurs or may occur.

### **Implementation Agreement**

The agreement underpinning County and city cooperation which establishes the responsibilities of each Permittee and a funding mechanism for the shared costs of the Program.

### **Implementation Assessment**

The analysis of the effectiveness of a program element or control measure at meeting desired programmatic outcome levels or goals.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Assessment conducted to determine the effectiveness of Copermittee programs and activities in achieving measurable targeted outcomes, and in determining whether priority sources of water quality problems are being effectively addressed.

### **Integrated Assessment**

The process of evaluating whether stormwater program implementation is resulting in the protection or improvement of water quality.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Assessment to be conducted to evaluate whether program implementation is properly targeted to and resulting in the protection and improvement of water quality.



## Glossary

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### **Iterative Approach**

A stormwater program is developed, implemented, and assessed in repeated cycles. In each cycle the program is implemented and then refined based on the effectiveness assessment results.

### **Local Implementation Plan (LIP)/Jurisdictional Runoff Management Plan (JRMP)**

The Permittee specific document that details how the stormwater programs within the DAMP are implemented within their local jurisdictions (synonymously referred to as a LIP in the Santa Ana Region and a JRMP within the San Diego Region).

### **Low Impact Development (LID)**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– A stormwater management and land development strategy that emphasizes conservation and the use of on-site natural features integrated with engineered, small scale hydrologic controls to more closely reflect pre-development hydrologic functions.

### **Maximum Daily Action Level (MDAL)**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– is the highest allowable daily discharge of a pollutant, over a calendar day (or 24 hour period). For pollutants with action levels expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with action levels expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutants over the day.

### **Municipal Separate Storm Sewer System (MS4)**

A stormwater drainage system owned or operated by a public agency that does not connect to a wastewater collection system or treatment plant, including ditches, curbs, gutters, storm sewers, and similar means of collecting or conveying storm runoff and flows.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) Designated or used for collecting or conveying storm water; (iii) Which is not a combined sewer; (iv) Which is not part of the Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.26.

### **Orange County Stormwater Program**

The program designed by the Orange County Permittees for compliance with the NPDES permits.



## Glossary

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### **National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permit**

A provision of the CWA, section 402(p), that identifies municipal stormwater as a point source subject to regulation under the NPDES Permits.

### **Permittees**

The cities of Aliso Viejo, Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Dana Point, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, La Habra, La Palma, Lake Forest, Los Alamitos, Mission Viejo, Newport Beach, Orange, Placentia, Rancho Santa Margarita, San Clemente, San Juan Capistrano, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda; the County of Orange; and the Orange County Flood Control District and any subsequently incorporated cities that become subject to the NPDES permit. Each Permittee is individually responsible for the implementation of the program elements within its jurisdiction.

### **Priority Development Projects**

New development and redevelopment projects which meet one or more of the priority project categories listed in Section F.1.d(2) of Order No. R9-2009-0002 (San Diego Region MS4 Permit) or Section XII.B.2 of Order No. R8-2009-0030 (Santa Ana Region MS4 Permit).

### **Point Source**

Any discernable, confined, and discrete conveyance, including any conduit pipe, ditch, channel, sewer, tunnel, vessel, or other floating craft from which pollutants are or may be discharged.

### **Principal Permittee**

The County of Orange is the Permittee designated with the responsibility to manage the NPDES Municipal Stormwater Program on behalf of the Permittees.

### **Redevelopment**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– The creation, addition, and or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include trenching and resurfacing associated with utility work; resurfacing existing roadways; new sidewalk construction, pedestrian ramps, or bikelane on existing roads; and routine replacement of damaged pavement, such as pothole repair.

### **Regional Water Quality Control Boards**

The Santa Ana and San Diego Regional Water Quality Control Boards are agencies that implement and enforce Clean Water Act Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits on behalf of EPA within Orange County.





## Glossary

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### **Report of Waste Discharge (ROWD)**

Constitutes the application to the RWQCB for the MS4 Permit governing the next five year permit term. The ROWD presents the compilation of data from the current and previous permit terms and describes the proposed plan for future activities.

### **Santa Ana Regional Board**

The Regional Board that issues the NPDES Municipal Stormwater Permit for Orange County from the northern Los Angeles County border southward to approximately El Toro Road. The Permittees in the Santa Ana Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the twenty six (26) incorporated cities of Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Habra, La Palma, Laguna Hills, Laguna Woods, Lake Forest, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda.

### **San Diego Regional Board**

The Regional Board that issues the NPDES Municipal Stormwater Permit for Orange County from approximately El Toro Road down southward to the San Diego County border. The Permittees in the San Diego Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the eleven (11) incorporated cities of Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente, and San Juan Capistrano.

### **Second Term Permits**

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 1996, Santa Ana Region CAS0108740 and San Diego Region CAS618030, which covered the time period from 1996-2002.

### **Shared Treatment Control BMP**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– BMPs used by multiple developments to infiltrate, filter, or treat the required volume or flow prior to discharge to a receiving water. This could include, for example, a treatment BMP at the end of an enclosed storm drain that collects runoff from several commercial developments.

### **Source Control BMP**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Land use or site planning practices, or structural or nonstructural measures that aim to prevent runoff pollution by reducing the potential for contamination at the source of pollution. Source control BMPs minimize the contact between pollutants and runoff.

### **Smart Growth**

*As defined in Section XII.C.5 of the Santa Ana Region MS4 Permit (Order No. R8-2009-0030)*– Refers to the use of creative strategies to develop ways that preserve natural lands and



## Glossary

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critical environmental areas, protect water and air quality, and reuse already-developed land.

### **State Water Quality Protection Area**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– A nonterrestrial marine or estuarine area designated to protect marine species or biological communities from an undesirable alteration in natural water quality, including, but not limited to, areas of special biological significance that have been designated by the State Water Resources Control Board through its water quality control planning process. Areas of special biological significance are a subset of State Water Quality Protection Areas, and require special protection as determined by the State Water Resources Control Board pursuant to the California Ocean Plan adopted and reviewed pursuant to Article 4 (commencing with Section 13160) of Chapter 3 of Division 7 of the California Water Code and pursuant to the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (California Thermal Plan) adopted by the state board.

### **State Water Resources Control Board**

State agency that sets statewide policy for the nine Regional Water Quality Control Boards.

### **Total Maximum Daily Loads (TMDL)**

A written, quantitative analysis and plan for attaining and maintaining water quality standards in all seasons for a specific water body and pollutant.

### **Third Party Inspectors**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Industrial and commercial facility inspectors who are not contracted or employed by a regulatory agency or group of regulatory agencies, such as the Regional Board or Copermittees. The third party inspector is not a regular facility employee self-inspecting their own facility. The third party inspector could be a contractor or consultant employed by a facility or group of businesses to conduct inspections.

### **Third Term Permits**

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 2002, Santa Ana Region Order No. R8-2002-0010 and San Diego Region Order No. R9-2002-0002, which covered the time period from 2002-2009.

### **Water Quality Assessment**

The use of environmental data and related information to characterize the quality of stormwater discharges and the water bodies that receive these discharges.

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Assessment conducted to evaluate the condition of nonstorm water and storm water discharges, and the water bodies which receive these discharges.



## Glossary

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### **Water Quality Objective**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Numerical or narrative limits on constituents or characteristics of water designated to protect designated beneficial uses of the water. [California Water Code Section 13050 (h)]. California’s water quality objectives are established by the State and Regional Water Boards in the Water Quality Control Plans. Numeric or narrative limits for pollutants or characteristics of water designed to protect the beneficial uses of the water. In other words, a water quality objective is the maximum concentration of a pollutant that can exist in a receiving water and still generally ensure that the beneficial uses of the receiving water remain protected (i.e., not impaired). Since water quality objectives are designed specifically to protect the beneficial uses, when the objectives are violated the beneficial uses are, by definition, no longer protected and become impaired. This is a fundamental concept under the Porter Cologne Act. Equally fundamental is Porter Cologne’s definition of pollution. A condition of pollution exists when the water quality needed to support designated beneficial uses has become unreasonably affected or impaired; in other words, when the water quality objectives have been violated. These underlying definitions (regarding beneficial use protection) are the reason why all waste discharge requirements implementing the federal NPDES regulations require compliance with water quality objectives. (Water quality objectives are also called water quality criteria in the CWA.

### **Water Quality Planning Process**

Systematic and detailed evaluation of the impacts of urban water quality on beneficial uses to determine or validate that actual impairments exist that warrant corrective action.

### **Water Quality Standards**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– The beneficial uses (e.g., swimming, fishing, municipal drinking water supply, etc.) of water and the water quality objectives necessary to protect those uses.

### **Waters of the State**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– Any water, surface or underground, including saline waters within the boundaries of the State [CWC section 13050 (e)]. The definition of the Waters of the State is broader than that for the Waters of the United States in that all water in the State is considered to be a Waters of the State regardless of circumstances or condition. Under this definition, a MS4 is always considered to be a Waters of the State.

### **Waters of the United States**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)*– As defined in the 40 CFR 122.2, the Waters of the U.S. are defined as: “(a) All waters, which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide; (b) All interstate waters, including interstate “wetlands;” (c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams),



## Glossary

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mudflats, sandflats, "wetlands," sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation or destruction of which would affect or could affect interstate or foreign commerce including any such waters: (1) Which are or could be used by interstate or foreign travelers for recreational or other purposes; (2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or (3) Which are used or could be used for industrial purposes by industries in interstate commerce; (d) All impoundments of waters otherwise defined as waters of the United States under this definition: (e) Tributaries of waters identified in paragraphs (a) through (d) of this definition; (f) The territorial seas; and (g) "Wetlands" adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition. Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with the EPA."

### **Watershed Management Plans (WRMP)**

*As defined in Attachment C of the San Diego Region MS4 Permit (Order No. R9-2009-0002)- A written description of the specific watershed runoff management measures and programs that each watershed group of Copermitees will implement to comply with this Order and ensure that storm water pollutant discharges in runoff are reduced to the MEP and do not cause or contribute to a violation of water quality standards.*

### **Wet Season**

October 1 through April 30 of each year.



**Local Implementation Plan (LIP)  
Executive Summary**

This document was prepared as a joint plan for the County of Orange/Orange County Flood Control District (hereinafter referred to as the *County*) to meet the requirements of the Fourth Term NPDES 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).

Santa Ana Regional Board			San Diego Regional Board		
Order No.	NPDES No.	Date Adopted	Order No.	NPDES No.	Date Adopted
R8-2009-0030	CAS618030	May 22, 2009	R9-2009-0002	CAS0108740	December 16, 2009

*The Permittees in the Santa Ana Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the twenty six (26) incorporated cities of Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Habra, La Palma, Laguna Hills, Laguna Woods, Lake Forest, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster and Yorba Linda.*

*The Permittees in the San Diego Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the eleven (11) incorporated cities of Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente and San Juan Capistrano.*

Each permit renewal requires the Permittees to continue to implement ongoing stormwater quality management programs and develop additional programs in order to control pollutants in stormwater discharges.

The specific water pollutant control program elements of the Orange County NPDES Stormwater Program are documented in the 2007 Drainage Area Management Plan (DAMP) and corresponding Local Implementation Plans (LIPs), which serve as the Permittees' primary policy and implementation documents for compliance with the NPDES Stormwater permits. The main objectives of the DAMP and LIPs are to comply with the NPDES permit requirements and to evaluate the impacts of urban stormwater quality on beneficial uses.

The 2007 DAMP and LIP were completed to incorporate the programs developed since 1993, comply with the Third Term NPDES Permits and provide a programmatic foundation for future activities. The plans propose a wide range of continuing and enhanced Best Management Practices (BMPs) and control techniques, which will be implemented and reported on as part of the Fourth Term Permit reports.



## EXECUTIVE SUMMARY

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The County has developed this LIP to provide a written account of the planned activities that the County has and will undertake to meet the requirements of the Fourth Term MS4 Permits. The County's LIP has been prepared with public input and participation, as it is always made available for public review and comment at the following page of the OC Watersheds website: [http://www.ocwatersheds.com/DAMP\\_LIP.aspx](http://www.ocwatersheds.com/DAMP_LIP.aspx)

All of the said efforts are undertaken to make meaningful improvements in stormwater runoff quality. In developing this LIP, the County has utilized the 2007 DAMP as the foundation for its program development. The LIP, as a result, contains numerous references to it and the two documents, in effect, act as companion parts of the County's compliance program in total. The LIP is intended to serve as the basis for County compliance during the five-year life of the Fourth Term Permits, but is subject to updating and modification as the County determines necessary, as public input is received, or as directed by the Regional Board.

The LIP consists of twelve (12) distinct program elements which are summarized in the following sections. Each program element includes a focus on pollution prevention measures as well as program effectiveness assessment.

- **Introduction (Section A-1)**

This element provides some initial background on the program and then describes the County's environmental setting such as geography and climate, watersheds, impaired waterbodies and environmentally sensitive areas, as well as the overall organization of the LIP.

- **Program Management (Section A-2)**

This element describes the framework for the program management activities including the countywide and local coordination as well as the fiscal analysis for the compliance activities and the data management and reporting requirements. This section identifies individual County and co-permittee staff members' direct areas of responsibility and participation within assigned sub-committees and/or task forces.

- **Plan Development (Section A-3)**

This element describes the framework and approach for the development of the 2003 DAMP and the LIP as well as future plan development activities such as BMP effectiveness investigations and improvements in stormwater science.

- **Legal Authority (Section A-4)**

This element describes the County's legal authority for prohibiting unpermitted discharges to the storm drain system and for requiring BMPs in new development and significant redevelopment as well as the legal analyses that can be conducted and corresponding revisions that have been made to the applicable ordinances.

- **Municipal Activities (Section A-5)**

This element describes the programs that have been or will be implemented by the County to effectively address water quality issues related to municipal fixed facilities, field programs and drainage facilities.



## EXECUTIVE SUMMARY

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- **Public Education/Public Participation (Section A-6)**

This element describes the educational programs that have been or will be implemented by the County in order to educate various public and business target audiences about urban stormwater and non-stormwater pollution and obtain their support in preventing pollution. This element also describes the incorporation and necessity of a public participation component.

- **New Development/Significant Redevelopment (Section A-7)**

This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues at the planning and design stage of project development and redevelopment. This element includes controls to incorporate appropriate and required post construction nonstructural and structural BMPs into the environmental planning and development review process.

- **Construction (Section A-8)**

This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues during the construction stage of project development. This element includes site controls that address appropriate and required practices for erosion and sediment controls as well as on-site hazardous materials and waste management.

- **Existing Development (Section A-9)**

This program element contains four distinct programs:

- a. Industrial Program – This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues during the operation of industrial businesses. The program consists of site prioritization, inspection and BMP implementation.
- b. Commercial Program – This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues during the operation of commercial businesses. The program consists of site prioritization, inspection and BMP implementation.
- c. Residential – This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues associated with residential areas and activities.
- d. Common Interest Areas/Homeowner Associations – This element describes the programs that have been or will be implemented by the County in order to effectively address water quality issues associated with homeowner association areas and the operation and maintenance of common interest areas.

- **Illegal Discharges/Illicit Connections (Section A-10)**

This element describes the programs that have been or will be implemented by the County in order to effectively detect and eliminate unpermitted discharges and unauthorized connections to the municipal storm drain system.



## EXECUTIVE SUMMARY

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- **Water Quality Monitoring (Section A-11)**

This element describes the monitoring programs that have been or will be implemented by the County, as the Principal Permittee, for wet and dry weather in order to identify areas with water quality problems, assist in the prioritization of watersheds for analysis and planning, assist in the prioritization of pollutants and to assist in the facilitation of the development of specific controls to address the identified problems.

- **Watershed Work Plans (Section A-12)**

Watershed scale initiatives will progress through the completion of watershed specific action plans and programs that will be developed during the Fourth Term Permit period.



# Signed Certified Statement

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County of Orange/Orange County Flood Control District (County)

Stormwater Program Local Implementation Plan

Prepared for the  
California Regional Water Quality Control Board  
Santa Ana & San Diego Region

December 16, 2010

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations. [40 CFR 122.22(d)]



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Mary Anne Skorpanich,  
Manager, OC Public Works/OC Watersheds