

rcflood.org/NPDES Report illegal dumping (800) 506-2555

CONSOLIDATED MONITORING

PROGRAM (CMP)

Santa Margarita Region Santa Ana Region Whitewater River Region

Revised October 2012

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ABBREVIATIONS AND ACRONYMS

AVB Area Velocity Bubbler BMP Best Management Practices BOD Biological Oxygen Demand CASQA California Stormwater Quality Association CMP Consolidated Program for Water Quality Monitoring, Consolidated Monitoring Plan COC Chain of Custody COD Chemical Oxygen Demand CTR California Toxics Rule CWA Clean Water Act DAMP Drainage Area Management Plan District Riverside Flood Control and Water Conservation District DO Dissolved Organic Carbon DQO Data Quality Objective EDD Electronic Data Deliverable EDA [United States] Environmental Protection Agency GIS Geographic Information Systems HA Hydrologic Area HSA Hydrologic Subarea HU Hydrologic Control Spike MDL Method Detection Limit IBI Index of Biotic Integrity IC/D Illicit Discharge Detection and Elimination LCS Laboratory Control Spike MDL Method Detection Limit ML State Board Minimum Level MLS Mass Loading Station MMP Model Monitoring Program MS4 Muni	AVB Area Velocity Bubbler BMP Best Management Practices BOD Biological Oxygen Demand CASQA California Stornwater Quality Association CMP Consolidated Program for Water Quality Monitoring, Consolidated Monitoring Plan COC Chain of Custody COD Chemical Oxygen Demand CTR California Toxics Rule CWA Clean Water Act DAMP Drainage Area Management Plan District Riverside Flood Control and Water Conservation District DO Dissolved Organic Carbon DQO Data Quality Objective EDD Electronic Data Deliverable EDA [United States] Environmental Protection Agency GIS Geographic Information Systems HA Hydrologic Unit BI Index of Biotic Integrity IC/D Ilicit Discharge Detection and Elimination LCS Laboratory Control Spike MDL Method Detection Limit ML State Board Minimum Level MLS Mass Loading Station MMP Model Monitoring Program MA4 Municipal Separate Storm Sever System NA4 Municipal Separate Storm Sever MDL Nate Board Minimum Level	303(d) List	Clean Water Act Section 303(d) List of Water Quality Limited Segments		
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SCCWRP	Southern California Coastal Water Research Project
SM	Standard Method
SMC	Stormwater Monitoring Coalition
SMR	Santa Margarita Region
SOP	Standard Operating Procedure
SRM	Standard Reference Material
SWAMP	Surface Water Ambient Monitoring Program
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
TRE	Toxicity Reduction Evaluation
TSS	Total Suspended Solids
WQO	Water Quality Objective
WWR	Whitewater River Region
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VOLUME I:

INTRODUCTION



I. INTRODUCTION

The Consolidated Monitoring Program (CMP) was created to incorporate monitoring requirements for all applicable monitoring programs covered under the three separate NPDES permits. The Riverside County Flood Control and Water Conservation District (District), as the Principal Permittee, administers the CMP on behalf of the Permittees named in the three NPDES permits in Riverside County. The District encompasses 2,700 square miles and extends from the northwest portion of Riverside County east to Desert Hot Springs and Palm Springs and south to San Diego County through the Temecula area, maintaining jurisdiction over the western 40% of Riverside County. Three distinct watersheds are present within the District: the Santa Margarita River (SMR), the Santa Ana River (SAR), and the Whitewater River (WWR). Each watershed is governed by a separate Regional Water Quality Control Board (Water Board) and separate NPDES permits for which the District is listed as Principal Permittee.

Legal Authority

The Federal Clean Water Act (CWA) established a national policy designed to help maintain and restore the physical, chemical and biological integrity of the nation's waters. In 1972, the CWA established the National Pollutant Discharge Elimination System (NPDES) permit program to regulate the discharge of pollutants from "point sources" to waters of the United States. From 1972 to 1987, the main focus of the NPDES permit program was to regulate conventional point pollutant sources such as sewage treatment plants and industrial facilities. The 1987 amendments to the CWA established regulations for controlling discharges from Municipal Separate Storm Sewer Systems (MS4s) through the NPDES permitting process. NPDES permits are regulated by state and regional water quality control board, which require municipalities, including the Permittees, to regulate the water quality within their individual and collective jurisdictions. The District is granted authority, as Principal Permittee, to regulate NPDES permit compliance through the Riverside County Board of Supervisors.

History of the CMP

The goal of the NPDES MS4 regulatory program is to manage the quality of Urban Runoff to prevent impacts to Receiving Waters within the Permittees' respective jurisdictions. The original CMP was drafted in March 1994 and was accepted as part of the applications for MS4 permit renewal by the San Diego, Santa Ana and the Colorado Water Boards in 1995. Subsequently, the Water Boards directed the Riverside County Permittees to implement the CMP in the "second round" MS4 permits. The CMP was updated in 2004 and 2008 to more effectively address the monitoring program objectives and the requirements of the third-round MS4 permits issued by the San Diego (2002), Santa Ana (2004) and Colorado (2008) Water Boards. In January 2010, the Santa Ana Water Board issued a fourth permit for the Permittees, requiring a major revision of the CMP due in 2011, 16 months after adoption. This document represents the 2011 revision. In addition, the San Diego Water Board issued a new permit in 2010. While the new permit is not yet in full effect, the requirements under the SMR permit have been incorporated for future use, and the CMP may be updated upon full implementation of the new SMR permit and/or after siting is completed.

The CMP is intended to be a living document and will be updated as necessary to ensure its ongoing efficacy, address safety considerations, measure cost effectiveness, and address MS4 permit requirements. The CMP may be updated annually. Updates to the CMP are reported in each permit region's monitoring annual report.

Climate and Hydrology

Riverside County incorporates one east-west and two north-south trending mountain ranges with intermediate valleys and desert areas. In a matter of minutes one can travel from a microclimate where convective storms, influenced by temperature differences in the atmosphere, are the most critical to a

microclimate influenced primarily by orographic conditions, or those influenced by topography. Average annual precipitation is generally correlated with altitude, with higher altitudes receiving more precipitation than lower areas. The climate in the SMR and SAR is characterized as semi-arid with an average annual precipitation of 11-14 inches in the urbanized areas of the SAR and 12-16 inches in the urbanized areas of the SMR. The climate in the WWR is characterized as arid, with an average annual precipitation of 3-6 inches in the urbanized areas.

The climate of Western Riverside County, including the SMR and SAR watersheds, is typically Mediterranean, characterized by warm, dry summers and cool, rainy winters. About 75% of the precipitation occurs during the four-month period from December through March. Mean seasonal depth of precipitation ranges from less than 10 inches in the valley areas to over 40 inches in the mountains. Precipitation increases with increasing elevation to the summit of the Coastal range. Shading effects of the Coastal range lead to low precipitation amounts throughout the lower portions of the Inland area. Precipitation increases again farther away from the Coastal range in the northeastern area of the District. Further descriptions of the hydrologic conditions of the Santa Ana and Santa Margarita watersheds can be found in the Riverside County Drainage Area Management Plan (DAMP).

The climate of the Coachella Valley region of Riverside County, within the WWR watershed, is typically desert, characterized by hot summers and mild winters. This region is prone to summer thunderstorms with high intensity rainfall which may result in flash floods in washes and/or creeks that are typically dry throughout the majority of the year. Average annual rainfall ranges from 6 inches in Palm Springs to 3 inches in Coachella. Further descriptions of the hydrologic conditions of the WWR are available in the Whitewater River Region Stormwater Management Plan (SWMP).

The MS4

The primary purpose of the MS4 is to protect life and property from the impacts of unconfined flooding. In addition to protecting life and property, flood prevention protects the environment by protecting materials from exposure to flood waters. Specifically, the flooding of residential, commercial or industrial development results in inundation of stored materials and wastes and may result in the release of pollutants to Receiving Waters, even where those materials and wastes are properly stored and managed using appropriate Best Management Practices (BMPs). An additional objective of the regional MS4 in Riverside County is water conservation. The District allows public agencies to use the MS4 for water transfers to facilitate water conservation and for groundwater recharge.

Due to the climate, geology, geography, and development conditions, the flows in the MS4s and the Receiving Waters in Riverside County are generally ephemeral or intermittent. Dry weather flows that reach the MS4 typically permeate the ground or evaporate before reaching Receiving Waters. In general, flow is only observed as a result of larger storms. Exceptions include flows from springs, rising groundwater, POTW discharges, and water delivery discharges. Table 1-1 below presents those Receiving Waters with perennial flows and the sources of non-storm flows:

Receiving Water	Watershed	Source of Non-Storm Flows	
Santa Ana River	Santa Ana	POTW effluent; rising groundwater	
Arlington Wash	Santa Ana	Produced water from Arlington Desalter	
Temescal Wash	Santa Ana	POTW effluent; produced water from Arlington Desalter	
Lake Evans	Santa Ana	TBD	
Lake Mathews	Santa Ana	Imported potable water	
La Sierra Channel	Santa Ana	Rising groundwater	
Anza Channel	Santa Ana	Rising groundwater	
Box Springs Channel	Santa Ana	Raw potable water from Orange County Water District	
Sunnyslope Channel	Santa Ana	Rising groundwater	
Lower reach of Murrieta Creek	Santa Margarita	Rising groundwater; potable water from Rancho California Water District	
Lower reach of Temecula Creek	Santa Margarita	Rising groundwater	
Upper Whitewater River (to North Palm Springs Recharge Basins)	Whitewater	80% Colorado river water, 20% snowmelt	
Coachella Valley Stormwater Channel	Whitewater	POTW effluent; agricultural return water / rising groundwater	

Coverage Under MS4 Permits

The District serves as the Principal Permittee in the SAR and SMR MS4 Permits, and Co-Principal Permittee with the County of Riverside in the WWR MS4 Permit. As the Principal Permittee, the District is responsible for administering the required monitoring programs, including but not limited to collecting water quality samples; reviewing, analyzing, and reporting data; and processing contracts and service agreements for laboratory, consulting, and interagency services. Other Permittees may also conduct monitoring activities, such as water quality sampling and field reconnaissance, either under the umbrella of the CMP or due to MS4 permit-specific monitoring requirements.

Riverside County is under the purview of three Water Boards, as presented in Table 1-2 below:

Water Board	Watershed <u>Area</u>	Order No.	NPDES No.	Adoption Date
Region 9: San Diego	Santa Margarita Watershed	R9-2010-0016	CAS0108766	November 10, 2010
Region 8: Santa Ana	Santa Ana Watershed	R8-2010-0033	CAS618033	January 29, 2010
Region 7: Colorado River Basin	Whitewater River Region	R7-2008-001	CAS617002	May 21, 2008

 Table 1-2: District MS4 Permits

The CMP is intended to comply with the core programmatic elements of each of the watershed MS4 permits and additional requirements and recommendations by the Surface Water Ambient Monitoring Program (SWAMP).

The Model Monitoring Program

In 2004, the Stormwater Monitoring Coalition's (SMC) Model Monitoring Technical Committee developed Technical Report #419, <u>Model Monitoring Program for Municipal Separate Storm Sewer</u> <u>Systems in Southern California</u> (MMP). The purpose of developing the model program was to provide "a common framework for municipal urban runoff programs and Regional Board staff to use in developing and/or revising program requirements for monitoring Receiving Waters for impacts, status and trends, toxicity, mass emissions, and source identification." The model program was designed around five core management questions:

- 1. Are conditions in Receiving Waters protective, or likely to be protective, of beneficial uses?
- 2. What is the extent and magnitude of the current or potential Receiving Water problems?
- 3. What is the relative urban runoff contribution to the Receiving Water problem(s)?
- 4. What are the sources of urban runoff that contribute to Receiving Water problem(s)?
- 5. Are conditions in Receiving Waters getting better or worse?

The CMP is designed to follow the guidelines and structure of the MMP. The goal of the MS4 urban runoff program is to manage the quality of urban runoff to prevent impacts to Receiving Waters within the Permittees respective jurisdictions. The objectives necessary to support this goal are a superset of the MMP core management questions. These objectives are as follows:

- 1. Develop and support an effective MS4 management program.
- 2. Identify those Receiving Waters, which, without additional action to control Pollution from Urban Runoff, cannot reasonably be expected to achieve or maintain applicable Water Quality Standards. (MMP Questions 1 and 3)
- 3. Characterize Pollutants associated with Urban Runoff and assess the influence of Urban land uses on Receiving Water quality. (MMP Questions (2, 3, and 4)
- 4. Analyze and interpret the collected data to identify trends, if any, both to prevent impairments through the implementation of preventive BMPs and to track improvements based on the MS4 management program. (MMP Question 5)

Water Quality: Point and Non-Point Pollutant Sources

Stormwater runoff is surface water that flows as a result of precipitation, through both urbanized and nonurbanized areas. It is a complex conglomeration of diverse point and non-point sources conveyed in such a way that they discharge to Receiving Waters at measurable points. The non-point inputs are varied and include inputs from open space, agricultural, and other non-urban sources.

Although the quality of discharges from most point sources has been improved or the discharges themselves eliminated by diverting flows for treatment at a treatment facility, water quality impairments remain in Riverside County. Non-point sources may also contribute to Receiving Water impairment. Many non-point sources, including discharges from lands not within the Permittees jurisdiction, are untreated or inadequately treated and may be discharged into the MS4 and/or Receiving Waters. The nature of all sources of pollutants potentially contributing to these impairments, including but not limited to stormwater runoff, needs to be identified and characterized for the development of effective control programs. Impairments are identified in the CWA Section 303(d) List of Water Quality Limited Segments (303(d) List) and are discussed under the individual programs and in monitoring annual reports.

CMP Structure

The CMP is divided into 5 volumes: the introduction, the Quality Assurance Project Plan (QAPP), the SMR Monitoring Plan, the SAR Monitoring Plan, and the WWR Monitoring Plan. The QAPP, located in Volume II, covers common elements of all three programs including general QA/QC, standard operating procedures, and general program information. The SMR Monitoring Plan, the SAR Monitoring Plan, and the WWR Monitoring Plan, located in Volumes III through V, cover monitoring programs and information specific to the respective watershed. Together, these five volumes are the CMP.