

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

WATERSHED MANAGEMENT APPROACH

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EXECUTIVE SUMMARY

Overview

The water resource protection efforts of the State Water Resources Control Board (SWRCB) and the regional water quality control boards (RWQCBs) are guided by a five year **Strategic Plan** (which was updated in 1997). A key component of the **Strategic Plan** is a watershed management approach for water resources protection.

To protect water resources, point and nonpoint source discharges, ground and surface water interactions, and water quality / water quantity relationships must be considered within a watershed context. These complex relationships present considerable challenges to water resource protection programs. The San Diego Regional Water Quality Control Board (SDRWQCB), the other eight RWQCBs, and the SWRCB are responding to these challenges with the Watershed Management Initiative (WMI). The WMI is designed to integrate various surface and ground water regulatory programs while promoting cooperative, collaborative efforts within a watershed. It is also designed to focus limited resources on key issues.

Past SWRCB and RWQCB programs tended to focus on point sources of pollutants. This approach was reasonably effective insofar as water quality and beneficial use problems were attributable to pollution from point sources. However, the diffuse nature of nonpoint sources of pollutants necessitates a new regulatory strategy. The WMI uses a strategy to draw solutions from all interested parties within a watershed and to more effectively coordinate and implement measures to control both point and nonpoint sources.

This document, the **Watershed Management Approach for the San Diego Region**, is also referred to as the **SDRWQCB Watershed Management Chapter** or **SDRWQCB WMI Chapter**. Each RWQCB updates its WMI Chapter annually. The combined WMI Chapters of all nine RWQCBs (as well as that of the SWRCB, if/when the SWRCB updates its WMI Chapter) constitute the **Integrated Plan for Implementation of the WMI**.

The San Diego Region

The San Diego Region is located in the southwestern corner of California. Most of San Diego County and parts of Orange County and Riverside County are located within the region. The population of the region is, for the most part, concentrated near the coast. The region's natural water resources, which include coastal waters, inland surface waters, and ground waters, have a variety of beneficial uses. Most water supplied for domestic and municipal uses is imported. The region includes a number of relatively small watersheds, all of which drain to the Pacific Ocean or contiguous coastal waters. The region's hydrologic divisions are identified in **Table 1** and shown in **Figure 1**. For purposes of watershed management, the region has been divided into nine watershed

management areas. Features of these watershed management areas are identified in **Table 2** and described in **Appendix A**.

San Diego Region Water Quality / Beneficial Use Problems

Controls on discharges of wastes and pollutants have reduced or eliminated many water quality and beneficial use problems and threats in the region. Nevertheless, many such problems and threats remain. These problems and threats and typical sources and causes and stressors are summarized in **Tables 8 through 11**. Past water quality / beneficial use protection efforts have often focused on sources and causes other than those which are responsible for the current problems and threats. As **Table 11** suggests, some problems and threats are widespread, while others are conspicuous only in certain watershed management areas.

SDRWQCB Programs and Resources

Resources are typically allocated to the San Diego Regional Water Quality Control Board (SDRWQCB) for specific programs. In many cases, these programs, which are described in **Table 3**, are directed towards addressing a particular type of pollutant source and/or a particular type of receiving water. The SDRWQCB is obligated to use the resources available to it in accordance with the legal mandates, program requirements, and the conditions attached to funding sources. Unfortunately, resources allocated to various programs do not necessarily correspond to actual water quality or beneficial use problems or threats or to the level of effort necessary to address those problems or threats.

SDRWQCB Watershed Management Approach

The **Watershed Management Approach for the San Diego Region** is intended to ensure that, within the constraints mentioned above, available resources are efficiently used to effectively address current water quality problems and threats, regardless of their sources or causes. In order to accomplish this, the SDRWQCB is defining water quality / beneficial use goals, identifying and prioritizing problems and threats and their sources and causes, attempting to concentrate efforts on certain activities in certain watershed management areas, involving interested parties, coordinating with other agencies, pursuing non-regulatory (as well as regulatory) approaches, integrating programs, and seeking to obtain additional resources for programs and activities that are critical to addressing current problems and threats.

Information Sources

Additional information about SDRWQCB programs and activities may be obtained from the SDRWQCB Internet website at www.swrcb.ca.gov/rwqcb9 and the SWRCB Internet website at www.swrcb.ca.gov, by calling the SDRWQCB at (858) 467-2952, or by faxing the SDRWQCB at (858) 571-6972. Information about specific programs and activities may be obtained by contacting the SDRWQCB staff members listed below. (All telephone phone numbers are in area code 858. The CALNET prefix is 734. Phone

numbers and staff assignments are current as of the date of this document but are subject to change.)

<u>PROGRAMS / ACTIVITIES</u>	<u>STAFF</u>	<u>PHONE</u>
Basin Planning Program	Deborah Jayne	467-2972
Total Maximum Daily Load Program	Deborah Jayne	467-2972
Water Quality Assessment Program	Deborah Jayne & Linda Pardy & David Gibson & Greig Peters	467-2972 627-3932 467-4387 467-2976
Citizen Monitoring Activities	Linda Pardy	627-3932
NPDES Program (waste water) <i>(as related to sewage treatment plants)</i>	Brian Kelly	467-4254
Non Chapter 15 Program <i>(as related to sewage treatment plants)</i>	Brian Kelly	467-4254
NPDES Program (waste water) <i>(as related to industrial sources)</i>	John Phillips	627-3928
Non Chapter 15 Program <i>(as related to industrial sources)</i>	John Phillips	627-3928
NPDES Program (storm water) <i>(as related to industrial storm water)</i>	John Phillips	627-3928
Pretreatment Program	John Phillips	627-3928
Nonpoint Source Program <i>(northern watersheds*)</i>	Bob Morris	467-2962
NPDES Program (storm water) <i>(as related to municipal storm water)</i> <i>(northern watersheds*)</i>	Bob Morris	467-2962
NPDES Program (storm water) <i>(as related to construction storm water)</i> <i>(northern watersheds*)</i>	Bob Morris	467-2962
Non Chapter 15 Program <i>(as related to sources other than sewage treatment plants and industrial sources)</i> <i>(northern watersheds*)</i>	Bob Morris	467-2962
Water Quality Certification (Wetlands) Program <i>(northern watersheds*)</i>	Bob Morris	467-2962

Nonpoint Source Program (<i>southern watersheds*</i>)	Mark Alpert	467-2963
NPDES Program (storm water) (<i>as related to municipal storm water</i>) (<i>southern watersheds*</i>)	Mark Alpert	467-2963
NPDES Program (storm water) (<i>as related to construction storm water</i>) (<i>southern watersheds*</i>)	Mark Alpert	467-2963
Non Chapter 15 Program (<i>as related to sources other than sewage treatment plants and industrial sources</i>) (<i>southern watersheds*</i>)	Mark Alpert	467-2963
Water Quality Certification (Wetlands) Program (<i>southern watersheds*</i>)	Mark Alpert	467-2963
Chapter 15 Program	John Odermatt	637-5595
SLIC Program	John Anderson	467-2975
Department of Defense Program	John Anderson	467-2975
Underground Tanks Program	Julie Chan	627-3926
Above Ground Tanks Program	Julie Chan	627-3926
San Diego Bay Activities	Pete Michael	467-2990
Nonpoint Source Program (<i>general</i>)	Greig Peters	467-2976
Water Quality Certification (Wetlands) Program (<i>general</i>)	Greig Peters	467-2976
Watershed Management	Bruce Posthumus	467-2964

- * northern watersheds: Hydrologic Units 901, 902, 903 & 904
southern watersheds: Hydrologic Units 905, 906, 907, 908, 909, 910 & 911

GLOSSARY

The following key terms are used throughout this document:

- **Watershed** - The area of land which drains to or is tributary to a particular water body, water course, or segment thereof or which recharges a particular ground water aquifer. Also, a geographic area in which waters and associated waterborne solid and dissolved materials flow to a common outlet, such as a point on a larger stream, a lake, an estuary, an enclosed bay, or the Pacific Ocean. A watershed may include ground water aquifers, which may discharge to and/or receive recharge from surface waters.
- **Watershed management** - The process of evaluating water quality issues and developing solutions on a watershed basis.
- **Watershed management approach** - The means by which the SDRWQCB will implement **watershed management** in the San Diego Region. The approach has seven guiding principles: geographic focus; comprehensive perspective; partnerships with **stakeholders**; coordinated priority setting, best use of resources; improved decision-making; and improved efficiency.
- **Watershed management areas** - The basic geographic areas where the SDRWQCB will implement **the watershed management approach**. These areas can consist of a single large **watershed**, a cluster of **watersheds**, or in some cases, an area that does not meet the strict hydrologic definition of **awatershed**.
- **State of the watershed report** - A reference document that describes the existing water quality conditions, including available water quality data and sources of pollutants within a single **watershed management area** or portion thereof. The document identifies data gaps, water quality problems and a draft list of water quality **goals**.
- **Watershed management plan** - A planning document that presents solutions for addressing the water quality problems identified in **the state of the watershed report** for a single **watershed management area** or portion thereof. This document includes assessment results, specific management strategies and corresponding **stakeholder** roles for implementation to attain water quality **goals**. The term **watershed management plan** is used more or less interchangeably with the term **watershed restoration action strategy (WRAS)**.
- **Watershed restoration action strategy (WRAS)** – See **watershed management plan**. A wide range of plans may qualify as WRASs. For example, a local

watershed plan, a coordinated resource management plan (CRMP), a TMDL, a comprehensive conservation and management plan (CCMP), as well as other similar plans may be considered WRASs. Desirable elements of a WRAS include:

1. Identification of measurable environmental and programmatic goals;
 2. Identification of sources of water pollution and the relative contribution of those sources (source analysis);
 3. Implementation of pollution control and natural resource restoration measures to achieve clean water and other natural resource goals, especially measures that will achieve multiple environmental and public health benefits (e.g., permit revisions, implementation of best management practices, and buffer strips);
 4. Schedules for implementation of needed restoration measures and identification of appropriate lead agencies to oversee implementation, maintenance, monitoring and evaluation;
 5. Implementation of TMDLs for pollutants exceeding State water quality standards.
 6. Implementation of source water assessment and protection programs;
 7. Monitoring and evaluation needed to assess progress towards achieving environmental and programmatic goals;
 8. Funding plans to support the implementation and maintenance of needed restoration measures;
 9. A process for cross-agency (federal, State, interstate, tribal, and local) coordination to help implement WRASs; and
 10. A process for public involvement.
- **Watershed management scale** - The areal extent of a **watershed** to be addressed in a **watershed management** effort.
 - **Goal** - The ultimate purpose toward which a **watershed management plan** or **watershed restoration action strategy** is directed; the intended results of **watershed management**.
 - **Stakeholders** - All agencies, organizations and individuals that could be affected by water quality management decisions in a **watershed**. They may include local, state and federal agencies, public interest groups, dischargers, industries, academic institutions, private landowners, user groups, and concerned citizens.

MISSION AND STRATEGIC GOALS

The 1997 Strategic Plan of the State Water Resources Control Board (SWRCB) and the nine California regional water quality control boards (RWQCBs) sets forth the common mission of these boards. That mission, as stated in the Strategic Plan, is as follows:

“Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.”

Accomplishing this mission is a long-standing commitment of the San Diego Regional Water Quality Control Board (SDRWQCB). The SDRWQCB's strategic direction must now respond to a growing need for a comprehensive approach to water resource protection. In order to meet this challenge, the SDRWQCB has established and continues to refine a watershed management approach for the San Diego region.

The SDRWQCB's direction with respect to watershed management is designed to achieve the following two strategic goals, which are also set forth in the 1997 Strategic Plan:

“Our goal is to preserve, enhance, and restore water resources while balancing economic and environmental impacts.”

“Our goal is to promote cooperative relationships and to improve support for the regulated community and the public.”

INTRODUCTION

Until the early 1980s, the SDRWQCB's efforts to protect water quality and beneficial uses were directed primarily towards controlling point source discharges of waste from sewage treatment plants and industrial facilities. Pollution from such point source discharges has largely been controlled through stringent pollution control laws and the efforts of the SDRWQCB and other agencies. Ground water contamination, nonpoint sources of pollution (such as urban and agricultural runoff), and physical modifications to water bodies are now considered the greatest remaining threats to water quality and beneficial uses and will increasingly be the focus of the SDRWQCB's efforts in the coming years. Cumulative effects from all sources must now be considered in order for the SWRCB and RWQCBs to be truly effective in protecting water quality and beneficial uses.

The purpose of this document is to describe how the SDRWQCB will implement watershed management in the San Diego region, i.e. the SDRWQCB watershed management approach.

Watershed Management Initiative

In 1993 the SWRCB commenced an external review of the mandates and programs of the SWRCB and RWQCBs. The purpose of the review was to identify how best, in an era of shifting priorities and shrinking budgets, the SWRCB and RWQCBs could better meet their mandates to protect California's water resources. Based on this review, the 1995 Strategic Plan of the SWRCB and RWQCBs was developed. The Strategic Plan, which was updated in 1997, provides strategic direction to guide decision making over the next five to seven years. One of the strongest messages received from the strategic planning process was that the actions and decisions of the SWRCB and RWQCBs should be guided by a perspective that considers water quality related impacts within the context of entire watersheds. In response to this concern, the 1995 Strategic Plan included a special initiative called the "Watershed Management Initiative." The Watershed Management Initiative addresses issues related to watershed management, describes current regional efforts, and establishes an action plan to implement watershed management plans statewide.

SDRWQCB Perspective

The SDRWQCB is fully committed to implementing the Strategic Plan's statewide Watershed Management Initiative in the San Diego region. Watershed management represents a departure from the SDRWQCB's traditional approach to protecting the quality and beneficial uses of ground and surface waters. The SDRWQCB's traditional approach has been organized around separate state and federal programs, each of which was developed to address different types of pollutant sources and/or different types of receiving waters. Funding has been and continues to be allocated to the RWQCBs by program and/or activity. However, the goals and responsibilities of various programs may be different, may overlap, and/or may leave gaps. Furthermore, funding allocated to various programs has not and does not necessarily correspond to actual water quality or beneficial use problems or threats or to the level of effort necessary to address those problems and threats. RWQCBs have little flexibility to direct funding to activities and locations where it will be most effective in addressing water quality and beneficial use problems and threats. Finally, accomplishments of the RWQCBs traditionally have been (and continue to be) measured in terms of program activities (or "bean counts"), such as numbers of permits issued, enforcement orders issued, compliance inspections conducted, and monitoring reports reviewed. While these activities are important tools for the RWQCBs, such "bean counts" seldom provide a meaningful or useful indication or measure of whether water quality standards have been achieved, whether water quality has improved, or whether beneficial uses have been maintained or restored.

Dealing with today's complex and intertwined water quality and beneficial use issues, which involve both point and nonpoint sources, requires a comprehensive, coordinated approach on the part of the SDRWQCB. The SDRWQCB must better integrate its programs and functions to more effectively bring different fields of expertise to bear and to promote a "teamwork" approach to solving water quality and beneficial use problems. The watershed management approach does not represent a new regulatory program, competing with or replacing existing SDRWQCB programs. Rather, the watershed management approach provides a framework to begin integrating existing SDRWQCB programs and activities and allocating resources so as to more effectively and efficiently address water quality and beneficial use issues.

The watershed management approach is based on the premise that many water quality and beneficial use problems are best solved by considering entire watersheds, or portions thereof, rather than considering only individual waters, discharges, discharge types, or political jurisdictions. This approach recognizes that water quality and beneficial uses may be affected by many different activities. These activities may occur throughout or only in certain parts of watersheds. These activities may occur near to or far from locations of known water quality or beneficial use problems. Watershed management addresses all of the water quality and beneficial use problems within and from a drainage area and all of the causes and sources of the problems. For this reason, watersheds can be thought of as "problemsheds," the areas in which water quality and beneficial use problems exist or originate.

The SDRWQCB recognizes that it cannot solve today's water quality and beneficial use problems alone. The involvement of all stakeholders, governmental and non-governmental, must be actively sought to identify the highest priority issues and to achieve mutually beneficial solutions. Better use of the expertise, authority, and staff resources of other federal, state and local agencies is also essential. Resources of agencies across all levels of government need to be coordinated and integrated to optimize use of staff resources and public dollars. For example, polluted runoff is intimately tied to land use. Since the SDRWQCB lacks direct land use control authority, it must increasingly look to agencies with land use control authority to coordinate land based strategies for the control of polluted runoff.

USEPA Integrated Federal Grants Process

In addition to the State's Watershed Management Initiative, the US Environmental Protection Agency (USEPA) has initiated a program called the Integrated Federal Grants Process for federal funding available under Clean Water Act Sections 104(b)(3), 106, 205(j) and 319. The goal of this effort is to direct federal and state funds towards priority water quality problems. This process involves developing a planning methodology for identification of the highest priority program needs, water quality problem areas, and watershed projects. USEPA will work with the SWRCB and RWQCBs to pool available federal and state grant funds and match the grant funds to

the identified priorities. Implementation of the watershed management approach will provide a framework for the SDRWQCB to identify highpriority water quality issues for integration into the USEPA and SWRCB integrated funding process.

GUIDING PRINCIPLES

The SDRWQCB watershed management approach is guided by the following seven guiding principles.

Geographic Focus

Activities should be directed within specific geographical areas, typically the areas that drain into a surface water body, or that recharge or overlie a ground water basin, or a combination of both.

Comprehensive Perspective

Watershed management should provide a comprehensive perspective that considers all water resource problems and the sources and factors causing and contributing to those problems throughout a watershed. Ground and surface water, point and nonpoint source pollution, and economic as well as environmental impacts in any given geographic area should be brought into the SDRWQCB decision making process.

Partnerships with Stakeholders

The parties most affected by water resource decisions should be involved throughout and shape key actions. Concerned citizens, private landowners, and representatives of local, state, and federal agencies, and appropriate public interest groups, industries and academic institutions should be included in watershed management teams. This involvement is intended to ensure that people who depend upon, have an interest in, and are knowledgeable about water resources are kept well informed and participate in the development of mutually beneficial solutions. The collaboration between agencies at all levels of government and with the public is intended to lead to coordination on watershed management efforts so that available funds and staff resources are put to maximum benefit.

Coordinated Priority Setting

The highest priority water quality and beneficial use problems and issues should be addressed. The SDRWQCB should focus resources on priority water quality issues. Through coordinated efforts with other stakeholders, priorities should be established and integrated actions should be taken based on consideration of all environmental and social issues.

Best Use of Resources

Those water quality and beneficial use protection actions that demonstrate the greatest benefits in the form of measured improvements in the quality and beneficial uses of water within the watershed for costs incurred should be pursued. The SDRWQCB's ability to quantitatively demonstrate economic and environmental benefits should be improved.

Improved Decision Making

The scientific basis for water quality management decisions should be improved. The SDRWQCB, in conjunction with stakeholders, should employ sound scientific data, tools, and techniques in an iterative process that includes monitoring, assessment, identification of water quality goals, characterization of priority problems and solutions, development and implementation of action plans, and evaluation of effectiveness.

Improved Efficiency

The efficiency of SDRWQCB programs should be enhanced. Activities such as water quality assessment, monitoring, and permitting should be integrated and focused on a limited number of point source and nonpoint source pollution issues at a time. SDRWQCB staff working in different programs and units should work in a consistent and coordinated manner to achieve defined watershed goals.

GEOGRAPHIC SETTING***Misconceptions***

Outside of the San Diego region and coastal southern California, there appear to be a number of misconceptions about the natural and anthropogenic characteristics of the San Diego region and coastal southern California as a whole. Unfortunately, these misconceptions seem to hinder efforts to obtain staff, grants, and other resources to address water quality and beneficial use problems and threats in the San Diego region and coastal southern California. SDRWQCB staff intends to work to dispel such misconceptions about the San Diego region, including but not limited to the following.

- Misconception 1: Virtually all of the San Diego region is urbanized and hardscaped.
- Misconception 2: There is no significant agriculture in the San Diego region.
- Misconception 4: There is very little water in the San Diego region.
- Misconception 3: There is virtually no significant natural habitat, habitat value, or native wildlife in the San Diego region.

Overview

The San Diego region, shown in **Figure 1**, occupies an area of approximately 3,900 square miles in the southwestern corner of California. The region encompasses most of San Diego County and parts of southwestern Riverside County and southern Orange County. The southern boundary of the region is the United States - Mexico international border. The eastern boundary of the region extends from a point on the international border approximately 50 miles from the coastline northerly along the hydrologic divide formed by the Laguna Mountains and other mountains located in the Cleveland National Forest. The northern boundary of the region is the hydrologic divide extending from the eastern boundary westerly along the ridge of the Elsinore Mountains through El Toro to the coast north of Laguna Beach and extending three miles offshore. The western boundary of the region parallels the coastline three miles offshore and extends from the northern boundary southerly approximately 85 miles to the international border, the southern boundary of the region.

The natural water resources in the San Diego region can be classified as inland surface waters, ground waters, and coastal waters. The SDRWQCB *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan) identifies the beneficial uses of and water quality objectives for these waters in the region.

The San Diego region has thirteen principal stream systems that originate in the highlands and flow to the coast. From north to south these stream systems are:

- (1) Aliso Creek;
- (2) San Juan Creek;
- (3) San Mateo Creek;
- (4) San Onofre Creek;
- (5) Santa Margarita River;
- (6) San Luis Rey River
- (7) San Marcos Creek
- (8) Escondido Creek;
- (9) San Dieguito River;
- (10) San Diego River;
- (11) Sweetwater River;
- (12) Otay River; and
- (13) Tijuana River.

Most of the streams of the San Diego region are interrupted in character, with both perennial and ephemeral components due to precipitation patterns and the construction of surface water impoundments (reservoirs). Surface water impoundments capture flow from many of the region's major surface water streams. Although some of the fresh water supplied for domestic and municipal uses in the region is obtained from local surface and ground water, most is imported from northern California and the Colorado River. Many of the major surface water impoundments contain a blend of natural runoff

and imported water. Natural fresh water supplies in the region are also supplemented by reclaimed (aka "recycled") water.

All major watersheds in the San Diego region contain ground water basins. Nearly all of the local ground waters of the region have been intensively developed for municipal and agricultural supply purposes. The basins are relatively small in area and generally shallow. Although these ground water basins are limited in size, their ground water yield has been historically important to economic activity in the region and continues to be an important local water supply source, particularly where imported water is not available. A number of the larger ground water basins in the region could be of future significance for storage of both imported waters and reclaimed water. Because of the movement of ground water to the surface and the movement of surface water into the ground, pollutants present in ground water may be transported into surface waters and vice versa.

Coastal waters in the region include the Pacific Ocean and various bays, harbors, coastal lagoons, estuaries, and river mouths. Important coastal lagoons, estuaries, and river mouths include Aliso Creek mouth, San Juan Creek mouth, San Mateo Creek mouth, San Onofre Creek mouth, Las Flores Lagoon, Santa Margarita Lagoon, San Luis Rey River mouth, Loma Alta Slough, Buena Vista Lagoon, Agua Hedionda Lagoon, Batiquitos Lagoon, San Elijo Lagoon, San Dieguito Lagoon, Los Penasquitos Lagoon, Famosa Slough, San Diego River mouth, and Tijuana River Estuary. San Diego Bay (which includes the mouth of the Otay River and Sweetwater Marsh at the mouth of Sweetwater River) is a natural bay, parts of which have been dredged to accommodate deep draft vessels and small craft, and parts of which have been filled for various purposes. Dana Point Harbor, Del Mar Boat Basin, Oceanside Harbor, and Mission Bay (which includes the Kendall-Frost Marsh Preserve) are shallower bays and harbors, all of which have been modified or constructed to accommodate small craft.

Six of the hydrologic units in the region extend from the coast all the way to the eastern boundary of the region, about 50 miles inland. The other five hydrologic units extend some 10 to 25 miles inland from the coast. Land uses in the lower portions of watersheds sometimes differ significantly from those in the upper portions. The differences in land uses can translate to differences in water quality and beneficial use problems, the solutions to such problems, and the composition of the stakeholder groups. However, activities in one part of a watershed can affect other areas in the watershed that are miles away, as runoff, solids, and pollutants flow through the watershed toward its outlet. With the one exception mentioned below, all watersheds in the San Diego region are contained entirely within the boundaries of the San Diego region. This means that activities that could adversely affect the quality and beneficial uses of the waters of the region generally occur within the SDRWQCB's jurisdiction and are potentially subject to the SDRWQCB's authority and policies.

The Tijuana River watershed is partly, but not entirely, within the jurisdiction of the SDRWQCB. The Tijuana River watershed covers a total of 1720 square miles in California and Mexico. Approximately 467 square miles, or 27 percent, of this watershed lies in California, within the jurisdiction of the SDRWQCB; the remainder lies in Mexico. Water flows across the international border both from the United States to Mexico and from Mexico to the United States. Raw sewage discharges into the Tijuana River from Mexico have adversely affected water quality and posed a public health threat to residents on both sides of the international border. The resolution of water quality problems in the Tijuana River watershed poses unique challenges for the SDRWQCB to work in a cooperative, coordinated manner with governmental agencies at the federal, state, and local level in both Mexico and the United States. The new SDRWQCB international border coordinator staff position will help the SDRWQCB deal with the many trans-border issues the region faces.

Watershed Management Areas

As set forth in the Basin Plan, the San Diego region consists of 11 hydrologic units (HU), 54 hydrologic areas (HA), and 147 hydrologic subareas (HSA). The names and geographic boundaries of these hydrologic divisions are listed in **Table 1** and shown in **Figure 1** respectively. A hydrologic unit is defined as the entire watershed of one or more major streams. Hydrologic areas consist of watersheds of major tributaries and/or major ground water basins within a hydrologic unit. Hydrologic subareas are major subdivisions of hydrologic areas including both water-bearing and nonwater-bearing formations. The term “watershed” can be used interchangeably with any of the terms “hydrologic unit,” “hydrologic area,” and “hydrologic subarea,” all of which are used in the Basin Plan. Watersheds may consist of several smaller tributary watersheds. For example, the Stonewall Creek watershed is one of several watersheds that are part of the Garnet Hydrologic Subarea (909.35), which is one of several watersheds that are part of the Upper Sweetwater Hydrologic Area (909.3), which is one of several watersheds that are part of Sweetwater Hydrologic Unit (909), which is one of several watersheds that are part of the San Diego Bay watershed.

For purposes of this document, the San Diego region has been divided into nine watershed management areas. These watershed management areas are briefly described in **Appendix A**. Features of these watershed management areas are summarized in **Table 2**. With one exception, these watershed management areas consist of the entirety of a single individual hydrologic unit and the adjoining coastal waters. The exception is the San Diego Bay Watershed Management Area, which consists of San Diego Bay and all three hydrologic units (908, 909, and 910) which, in whole or in part, drain to San Diego Bay. As noted above, the Tijuana River watershed lies partly in Mexico and partly in the United States. The Tijuana Hydrologic Unit (911) consists of the portions of the Tijuana River watershed located in the United States. The Tijuana River Watershed Management Area consists of the Tijuana Hydrologic Unit

(911) and the adjoining coastal waters north of the United States - Mexico international border.

The California Unified Watershed Assessment (UWA) associated with the federal Clean Water Action Plan (and referred to in requests for proposals for various grant programs) defines five different watersheds in the San Diego region. The relationships between the hydrologic units, watershed management areas, and UWA watersheds in the San Diego region are shown in **Table 2A**. All of the San Diego region UWA watersheds are Category I priority watersheds.

WATERSHED MANAGEMENT SCALE

The watershed management scale selected for a particular watershed management effort is an important consideration that should be tailored to the water quality issues to be addressed. If watershed planning is conducted on too large a scale, the effort could be dispersed and rendered ineffective due to large numbers of smaller watersheds, multiple political jurisdictions, water quality monitoring costs, and differences in stream quality and land development patterns. Watershed management at a smaller watershed scale can serve to encourage local efforts at developing solutions to water quality problems. However, small scale watershed efforts may lack the scope necessary to address water resource issues (such as fish passage, nutrients, heavy metals, water supply, flood protection, and waste discharge effluent limitations) in downstream watershed areas. Issues such as these may transcend a small watershed and would be best addressed at a larger watershed scale. "Nesting" smaller watershed areas (such as source water protection areas or special management areas designated for wetlands protection) into larger watershed areas allow those involved at every level to scale their efforts up or down to address specific concerns and still maintain consistency with related efforts.

For purposes of this document, there are four levels of watershed management scale. Level 1 involves dealing with matters on a regionwide scale. Level 2 involves dealing with matters on the scale of an entire hydrologic unit or watershed management area. Level 3 involves dealing with matters on the scale of an entire hydrologic area. Level 4 involves dealing with matters on the scale of an entire hydrologic subarea or portion thereof (including individual water bodies and portions thereof).

In general, watershed management activities will be implemented at Level 2. However, watershed management activities can and will be conducted at whatever watershed management scale is appropriate. Some water quality programs, problems or issues will continue to be implemented or addressed on a regionwide basis (Level 1). Smaller watershed scales will be favored for addressing water quality problems that are not regionwide in scope. Occasionally the SDRWQCB may implement watershed

management activities at Levels 3 or 4, particularly where local citizens and agencies are active and motivated to voluntarily develop a watershed management program.

It is important to recognize that substantial portions of the funding for various regulatory programs will need to be devoted to conducting required program activities, without regard to the extent to which such activities are likely to be effective in addressing water quality and beneficial use problems and threats. As noted previously, RWQCBs have little flexibility to direct funding to activities and locations where it will be most effective in addressing water quality and beneficial use problems and threats. For example, staff will have to continue to process applications for new permits and permit renewals, respond to spills and citizen complaints, work on producing the outputs (or "beans") required by various programs, and respond to requests from SWRCB staff, the SWRCB and the SDRWQCB. **Appendix B** contains schedules for completing specific SDRWQCB program activities that are mandated by the California Water Code, the Clean Water Act, or related programs.

STAKEHOLDER INVOLVEMENT

Since people tend to be motivated to protect the resources they value, use, know best, and depend upon, the most effective solutions, in many cases, are created by those who have a direct stake in the outcome. In many cases the solutions to water quality and beneficial use problems depend on voluntary actions of people who live, work, play, or do business in the watershed. Accordingly, the watershed management approach is not simply another program to be "centralized" at the SDRWQCB. Instead, it is intended to be an "inclusive" approach where diverse interests (i.e., stakeholders) such as individuals, landowners, farmers, municipalities, local government, water districts, sewage collection and treatment agencies, and regulatory agencies work together to achieve water quality goals. In all watershed management areas, the SDRWQCB will attempt to identify an existing stakeholder group or establish a new stakeholder group to reach agreement on goals and approaches for addressing watershed problems, the specific actions to be taken, and how they will be coordinated and evaluated.

The degree of stakeholder involvement in watershed management activities will vary between watersheds. In some watersheds where local efforts are occurring, stakeholders may want to be involved in all aspects of watershed management. In other watersheds, stakeholders may only want to be involved at certain key decision points such as the adoption of the watershed management plan. The SDRWQCB will be guided by a three tiered approach in determining the degree of SDRWQCB involvement in the watershed and in preparing the watershed management plan. The three tiers are presented below in order of increasing regulatory control over watershed management activities. The first tier is based on collaborative, stakeholder-directed efforts to manage water resources in the watershed. The second tier is based on

regulatory agency encouragement and oversight of watershed management activities. The third tier is based on SDRWQCB "command and control" regulatory actions through NPDES permits, waste discharge requirements, and enforcement orders.

Tier 1 -- Community Based, Stakeholder-directed Watershed Management

Tier 1 is the preferred approach and relies on community stakeholder initiative to assume a leadership role in coordinating and developing a watershed management plan. Locally based approaches may address water quality goals as well as economic and other interests of the community. Voluntary collaboration of all interested parties is likely to provide the most durable solutions. Locally based watershed management efforts will encourage community stakeholders to be part of the solution and will facilitate understanding and consensus on water quality protection goals and priorities. Under the Tier 1 approach, the SDRWQCB would be a participatory stakeholder by communicating its interests in protection of beneficial uses of water, achievement of Basin Plan water quality objectives, and other requirements of state and federal law. Within the constraints of available resources, the SDRWQCB would also support local watershed efforts with technical and educational assistance, such as conducting water quality assessments, preparing state of the watershed reports, identifying water quality goals and targets, coordinating permit issuance, and monitoring programs.

Tier 2 - Regulatory Agency Encouraged Watershed Management

The Tier 2 approach relies on the SDRWQCB or another state or federal agency to take the lead in coordinating and developing a watershed management plan. The SDRWQCB or other agency may select this approach for high priority watersheds where there are Clean Water Act Section 303(d) impaired waters or other substantially threatened watersheds. Tier 2 efforts would be initiated after it has been determined that a successful, viable local community based effort is not developing. The SDRWQCB or other lead agency would notify the public of its intent to develop a state of the watershed report and, ultimately, a watershed management plan. Stakeholders would be invited to participate in the process and provide comments on the plans. In general, the SDRWQCB would adopt all Tier 2 watershed management plans.

Tier 3 - Regulatory Watershed Management

The Tier 3 approach relies exclusively on the SDRWQCB to take the lead in coordinating and developing a watershed management plan. The SDRWQCB may select this approach for high priority watersheds where there are Clean Water Act Section 303(d) impaired waters or other substantially threatened watersheds. Tier 3 efforts would be initiated after it has been determined that a local community based effort either is not developing or timely accomplishments are not occurring. The SDRWQCB will prepare a watershed management plan that emphasizes use of regulatory measures. Examples of regulatory measures include permitting and formal enforcement actions.

Regardless of the tier implemented in a watershed management area, the SDRWQCB is required to uphold the law. For example the SDRWQCB will continue to use NPDES permits and waste discharge requirements to regulate waste discharges as required under the federal Clean Water Act and the California Water Code. The SDRWQCB will continue to initiate enforcement actions where the need arises.

PRIORITY WATERSHED MANAGEMENT AREAS

In many cases, water quality and beneficial use problems in a watershed must be addressed and solved incrementally. Complex water quality and beneficial use issues in a single watershed may require repeated and ongoing efforts to achieve satisfactory results. Furthermore, the SDRWQCB cannot devote all of its resources to one watershed or a few watersheds to the exclusion of all others. For these reasons, the watershed management approach is an iterative process that builds on past efforts to achieve measurable improvements in water quality and beneficial uses within individual watersheds.

Until recently, SDRWQCB staff envisioned a planned rotational implementation of the watershed management approach in different watershed management areas. This was intended to ensure that the watershed management approach was implemented in all nine watershed management areas over a period of years. In the annual updates of this document for the past several years, the three or four highest priority watershed management areas for the year were specified.

This planned rotation has not proven successful, largely because so much of the watershed management approach depends on the initiative of and funding available to stakeholders in each watershed. Consequently, SDRWQCB staff now intends to be more opportunistic in how the watershed management approach is implemented, i.e., SDRWQCB staff intends to give priority to watersheds where stakeholders appear to be most ready to move forward. At the same time, SDRWQCB staff intends to work with stakeholders in other watersheds to develop interest and initiative.

PRELIMINARY WATER QUALITY / BENEFICIAL USE GOALS

The preliminary water quality / beneficial use goals listed below are generally applicable throughout the San Diego region. Some of these goals may be more pertinent to certain watershed management areas and/or to certain waters than others. Over time, these goals may be refined (e.g. as a result of public participation activities) and additional goals may be added. More specific or detailed goals and/or strategies and tasks intended to achieve the goals may be developed for specific watershed management areas, specific types of sources or causes of water quality / beneficial use

problems and threats, and/or specific waters or types of waters. (Additional goals are set forth in the subsequent sections entitled “Long-term Nonpoint Source Management Goals” and “Long-term Wetlands Goals.” **Table NPS-2** also links the long-term nonpoint source management goals with short term objectives.)

Goal 1 Protect public health by preventing or minimizing health risks to users of local waters.

- a. Protect the public from health risks associated with drinking water from local ground and surface water sources and impoundments.
- b. Protect the public from health risks associated with consuming locally caught fish, shellfish, and other edible aquatic organisms (by ensuring that such organisms are safe to eat).
- c. Protect the public from health risks associated with water contact recreation.

Goal 2 Preserve, protect, and restore natural resources, including viable populations of native plant and animal species.

- a. Preserve, protect, and restore the viability of endangered, threatened, rare, and sensitive species.
- b. Preserve, protect, and restore the viability of native fish, wildlife, and other biota.
- c. Preserve, protect, and restore natural habitats of native fish, wildlife, and other biota, particularly those essential to endangered, threatened, rare, and sensitive species.
- d. Maintain water and sediment quality at levels that allow healthy and stable populations of native fish, wildlife, and other biota to be sustained.
- e. Maintain the natural diversity of natural habitats.
- f. Prevent overall net loss of, and achieve a long-term net gain in, the quantity, quality, and permanence of wetlands acreage and values.
- g. Prevent the introduction of non-native invasive species. Eradicate such species that are already established, where possible. Where eradication is not possible, remove, control, prevent the spread of, and reduce impact of and area occupied by such species.

Goal 3 Protect, restore, and enhance beneficial uses while balancing economic and environmental impacts.

- a. Control point and nonpoint sources of pollution to achieve water quality objectives and protect designated beneficial uses of water.
- b. Ensure that planning and land use decisions are consistent with protection of water quality and beneficial uses and with achievement of water quality standards and goals.
- c. Recognize that water-dependent and water-related activities and businesses are major factors in the economy.
- d. Ensure that commercial, industrial, agricultural, military, transportation, and residential activities are conducted in a manner that protects water quality and

- beneficial uses.
- e. Recognize the importance of dredging to navigation and the economic viability of harbor-related businesses. Recognize the potential for dredging and related activities to adversely affect water quality and beneficial uses. Ensure that dredging and related activities are conducted in a manner that protects water quality and beneficial uses.
 - f. Implement water conservation measures and increase use of local and/or reclaimed water for municipal and domestic, agricultural, and industrial supply in order to reduce demand for and use of imported water. Ensure that reclaimed water is used (1) where imported water would otherwise be needed and (2) in a manner that protects water quality and beneficial uses.

Goal 4 Increase the public's knowledge, understanding, and appreciation of local watersheds and waters. Develop and maintain a sense of individual and organizational responsibility for protecting local watersheds and the quality and beneficial uses of local waters.

- a. Encourage development of a detailed and comprehensive knowledge of:
 - (1) Local watersheds and waters;
 - (2) The quality and beneficial uses of local waters;
 - (3) Local water quality and beneficial use problems and threats; and
 - (4) The sources and causes of those problems and threats.
- b. Provide public access to local waters and other natural resources in a manner that protects and increases knowledge, understanding, and appreciation of those waters and natural resources.
- c. Cultivate and nurture a sense of environmental stewardship. Encourage individual and collective behaviors that will ensure protection of water quality and beneficial uses over the long term.
- d. Encourage full participation in all local and regional planning, environmental review, and decision making processes.

INTEGRATION AND COORDINATION OF PROGRAMS AND ACTIVITIES

The SDRWQCB implements a number of programs and conducts a number of activities for the purpose of protecting the quality and beneficial uses of the waters of the state.

Table 3 summarizes these programs and activities. The watershed management approach is intended to integrate and coordinate these programs and activities so that water resource issues and problems are addressed effectively and efficiently.

The shift from the existing program oriented management approach to a watershed oriented management approach will necessarily involve all surface water and, eventually, all ground water protection programs and activities of the SDRWQCB. At

this time, the emphasis for integration and coordination of programs and activities is in the following areas:

- Basin Planning Program
- Monitoring and Assessment Program
- Total Maximum Daily Load (TMDL) Program
- Nonpoint Source (NPS) Program
- Water Quality Certification (aka Wetlands) Program
- NPDES Program (storm water and waste water)
- Chapter 15 Program
- Non Chapter 15 Program

Table 4 outlines several initial steps taken, planned, or under consideration to improve integration and coordination of SDRWQCB programs and activities.

The following sections highlight issues and considerations related to several programs and activities that are of particular interest and importance from a watershed management perspective. **Appendix B** contains a schedule for completing specific mandated activities in the Basin Planning, NPDES, Chapter 15, and Non Chapter 15 programs. **Appendix C** contains schedules for completing activities in the TMDL program.

BASIN PLANNING PROGRAM

In the last several years, for all practical purposes, the Basin Planning Program has ceased to exist as attention has been given to the new TMDL Program. Virtually every Basin Planning activity not closely related to TMDLs has been put on hold (i.e., such activities are not even scheduled, as shown **Appendix B, Section 10**) and virtually all Basin Planning funds have been redirected to the TMDL Program. This is an unsatisfactory result of efforts to provide adequate funding for the TMDL program, in response to lawsuits and threats of lawsuits for alleged failure to develop TMDLs in a timely manner. Although TMDLs need to be developed in a timely manner, Basin Planning activities other than those closely related to TMDLs also need to be continued. As **Appendix B, Section 10** suggests, a considerable backlog of Basin Planning projects not closely related to TMDLs has accumulated. SDRWQCB staff intends to pursue funding to resume an active Basin Planning program, particularly for high priority projects.

WATER QUALITY ASSESSMENT PROGRAM

Monitoring and assessment of water quality and beneficial uses is essential in order to measure the success of the SWRCB and the RWQCBs in achieving their mission. Ultimately, the only meaningful measure of the success of the SWRCB and the RWQCBs is the condition of water quality and beneficial uses. This can be determined only by monitoring and assessment - not by the long-standing practice of counting program activities, i.e., "beans."

More importantly, monitoring and assessment is essential in order for the RWQCBs and the SWRCB to be successful in achieving their mission. Monitoring and assessment of ambient water quality and beneficial uses is necessary in order to:

- (a) Identify and characterize water quality and beneficial use problems and threats;
- (b) Identify trends in water quality and beneficial uses;
- (c) Determine whether water quality standards are met;
- (d) Evaluate the uniqueness or pervasiveness of problems;
- (e) Evaluate the relative severity of problems;
- (f) Make decisions about which problems and which locations should be prioritized for action; and
- (g) Make decisions about what actions should be taken.

It is important to recognize that the absence of information is not the same as the absence of a problem. Likewise, the availability of more information about a problem in a particular location does not necessarily mean that particular problem is more severe than a problem at another location about which less information is available.

In accordance with Clean Water Act section 305(b), the SWRCB and RWQCBs periodically compile an inventory of the state's major waters and the water quality condition of those waters, using monitoring data and other pertinent information. This inventory is known as the Water Quality Assessment. Waters are categorized as good, intermediate, impaired, or of unknown quality. Impaired waters are categorized in accordance with requirements of various Clean Water Act sections [e.g. 131.11, 303(d), 304(m), 304(s), 304(l), 314, and 319].

The Water Quality Assessment is the foundation upon which the TMDL Program is built. Although considerable funding has been devoted to the TMDL program recently, the Water Quality Assessment Program has long been and continues to be inadequately funded. Clearly, this makes no sense. It is impossible to make sound decisions about whether and where TMDLs are needed, about which TMDLs should be done, and about when various TMDLs should be done, without adequate monitoring and assessment.

There is a great need for more extensive and more thorough monitoring and assessment of the region's waters. Monitoring and assessment, for both status and trends, needs to be planned, ongoing, and continuous. Despite its importance, the Water Quality Assessment Program does not receive the attention it should and tends to fall through the cracks. This must change. Obtaining adequate funding to conduct a robust Water Quality Assessment Program is now one of the top priorities of the SDRWQCB. In the past year the SWRCB and RWQCBs have received resources to initiate the Surface Water Ambient Monitoring Program (SWAMP). Although SWAMP resources (particularly for staff) are not nearly adequate to do what needs to be done, the funding that has been provided is a significant step in the right direction. SDRWQCB staff intends to use SWAMP resources so as to ensure that monitoring and assessment is conducted in each watershed management area once in every five-year period. Although each watershed management area will be monitored, current funding will enable only cursory monitoring and assessment to be done. Particularly since funding is so limited, selecting locations to be monitored and deciding what to monitor for will be an important task for staff. Initially, staff intends to prioritize monitoring that is indicative of effects (e.g., toxicity testing, bioassessment, and benthic community analyses) rather than monitoring that simply indicates the presence and amount of a particular pollutant or class of pollutants.

Although each watershed presents some unique monitoring and assessment needs and opportunities, some general monitoring and assessment concepts are being pursued regionwide. These concepts recognize the uniqueness of the region's water resources and how some of the region's water resources can be expected to change through time with increasing urbanization and the extensive use of imported water. (The following sections are not watershed specific. Over time, SDRWQCB staff plans to prepare a summary of past, ongoing, and needed monitoring in each watershed management area.)

Monitoring Coordination and Information Management

Monitoring and assessment is not and does not need to be conducted only by SDRWQCB staff. Academic and other research groups, dischargers, and other stakeholders all have a role in monitoring and assessment. Although there is certainly a need for more extensive and more thorough monitoring of the region's waters, better coordination of monitoring efforts and better management of information is also needed in order to increase the value, usefulness, accessibility, and use of information obtained from past, ongoing, and future monitoring efforts.

Coordination of monitoring efforts is needed to ensure that appropriate and useful information is acquired, to enable sharing of such information, and to avoid both information gaps and duplicative monitoring. Since monitoring is conducted by various agencies and as part of various programs, communication and cooperation between agencies and programs is necessary in order to coordinate monitoring efforts.

The more accessible information is, the more useful it is, and the more likely it is to be used. Since monitoring information (and much other information pertinent to water quality and beneficial uses) is location specific, a geographic information system (GIS) would be an extremely useful tool for managing and retrieving monitoring information and other information pertinent to water quality and beneficial uses. SDRWQCB staff intends to pursue development and implementation of a statewide GIS for managing and retrieving such information.

Monitoring Parameters

Monitoring activities should accurately characterize the many natural surface and ground water resources in the San Diego region and assist the SDRWQCB in their protection. Wherever possible, surface water monitoring should emphasize the direct assessment of impacts on beneficial uses, including toxicity testing, bioaccumulation, and aquatic community biodiversity and structure. The SDRWQCB intends to increase its use of benthic invertebrate community sampling in the inland streams of the region in order to better assess the overall condition of inland aquatic habitat beneficial uses. Under its ambient bioassessment contract with the SDRWQCB, the Department of Fish and Game has initiated such monitoring. The SDRWQCB plans to continue to use animal tissue analyses through both the statewide Toxic Substances Monitoring Program (for estuaries, inland streams, and reservoirs) and the statewide State Mussel Watch Program (for coastal embayments and ocean waters) to assess the presence and threat of those toxic constituents which bioaccumulate or which are harmful at concentrations which are well below the limit of detection in a water sample.

The SDRWQCB will begin to conduct hydrogeomorphic functional assessments at some of the Region's inland trend monitoring stations using the techniques contained in the "*Draft Guidebook to Hydrogeomorphic Functional Assessment of Riverine Waters/Wetlands in the Santa Margarita Watershed, 1997.*" The SDRWQCB will also promote an expansion of the coliform bacteria sampling along the coast, to include all areas near storm drains where there is a significant potential for contamination. Some ongoing storm drain sampling is now being conducted by the municipal storm water committees. Municipal storm water committees may be required to conduct additional monitoring in the future.

Coastal Ocean Waters

The majority of the population in southern California, including the San Diego region, lives near the coastline and in watersheds that drain to the ocean. The activities associated with this population can directly influence the water quality and beneficial uses of coastal ocean waters. Although monitoring has been conducted in some areas of the region's ocean waters for several decades, nearly all of that monitoring has been conducted in close proximity to ocean outfalls from municipal wastewater treatment plants and power plants. There has been little or no coordination in the monitoring programs between

different dischargers or between different RWQCBs, and, hence, little information has been obtained on the overall health of the region's coastal ocean waters. In 1994 and 1998, the Southern California Coastal Water Research Project (SCCWRP) coordinated monitoring efforts for the southern California bight as a whole. These efforts were the first in a planned ongoing series of such efforts which can be expected to significantly improve understanding of the overall health of the coastal ocean waters of the San Diego region and southern California as a whole. These bight-wide monitoring efforts are intended to determine the status of and detect trends in southern California ocean water quality, to compare conditions at different locations, and to distinguish between anthropogenic and natural influences. The SDRWQCB is partially funding efforts of SCCWRP to develop model monitoring programs for ocean discharges and plans to make use of the results of these efforts to establish ocean discharge monitoring programs which are better coordinated, more consistent, more efficient, and more useful. Ocean monitoring and the costs thereof are appropriately the responsibility of all the entities responsible for all types of ocean discharges (e.g. municipal wastewater treatment plants, power plants, dredge spoil disposal, and urban runoff / storm water). Changes in monitoring requirements for some discharge types or individual dischargers may be necessary to achieve a more equitable distribution of monitoring costs.

Additional monitoring of San Diego region ocean waters is conducted as part of the State Mussel Watch Program.

Coastal Estuaries, Lagoons, and Bays

Many of the region's larger watersheds drain to coastal estuaries, lagoons, or bays that are contiguous with (and, at least at times, open to) coastal ocean waters. Many of these coastal estuaries, lagoons, and bays were severely degraded by the discharge of inadequately treated municipal and industrial wastewater in the 1950s and 1960s. Construction of ocean outfalls and improved wastewater treatment resulted in significant improvements in estuary, lagoon, and bay water quality in the late 1960s and 1970s.

Although many coastal estuaries and lagoons have been dredged and/or filled to a greater or lesser extent, they continue to provide extremely important fish and wildlife habitats and are important stopovers for migratory birds along the Pacific Flyway. Most of the lagoons have been severely fragmented by a railroad and two coastal highways that were constructed across and through the lagoons. These transportation corridors restrict tidal exchange and internal circulation patterns and, along with unnaturally high sedimentation rates, contribute to the marginal or poor water quality (e.g. eutrophication) and infilling currently found within many of the region's lagoons.

The natural bays of the region, San Diego Bay and Mission Bay, have both been extensively dredged and filled to create harbors. These bays and the region's other harbors (Dana Point Harbor, Del Mar Boat Basin, and Oceanside Harbor) are important for navigation, industrial water supply, fish and wildlife, and recreational uses.

Regular monitoring of coastal estuaries, lagoons, and bays is needed in order to assess trends in their conditions, as well as to assist resource agencies and lagoon foundations in actively managing these waters to improve water quality and habitat conditions.

The State Mussel Watch Program includes stations in San Diego Bay. The State Toxic Substances Monitoring Program has included sampling in San Diego region estuarine waters.

Sampling at a number of stations in San Diego Bay was part of, and is expected to continue to be part of, the ongoing bight-wide ocean monitoring effort mentioned in the previous section.

Inland Streams and Water Supply Reservoirs

While urban development poses severe environmental threats to many of the region's waters, such development can have mixed effects on the region's inland surface waters.

Imported water currently comprises over 75 percent of the region's potable water supply and is a significant contributor to the changing characteristics of the region's streams. As urban development continues to spread throughout the region, dry-weather runoff is expected to increase and contribute to an increase in the number and length of perennial stream courses in the region. Although storm water from urban areas can be expected to be of lower quality than that from undisturbed natural lands, the increased volume of dry-weather runoff produced by such development can greatly expand the aquatic habitats of nearby stream channels. In recognition of the dramatic effect that urbanization can have on changing the hydrology of the region's inland streams, regional monitoring activities need to monitor changes in the quantity, as well as the quality, of inland stream flows.

Extensive urban development in the region presents a unique threat to the region's water supply reservoirs. While the watersheds of the reservoirs were once comprised of only undeveloped rural land, large residential and commercial developments have recently been and continue to be constructed within many of these watersheds. These new urban developments can contribute a wide array of contaminants to the reservoirs. Extensive, coordinated monitoring is needed to ensure protection of these water supply reservoirs.

Work under the previously mentioned contract for the ambient bioassessment will be directed entirely towards inland surface waters.

The Toxic Substances Monitoring Program has included sampling in San Diego region inland streams and water supply reservoirs.

Reclaimed Water Discharges

The SDRWQCB has long recognized the stream enhancement potential which is associated with reclaimed water discharges and, in 1988, released the staff report "*Stream Enhancement and Reclamation Potential - 1988 through 2015*," to further expand these enhancement possibilities. Specifically, the report encourages the coordination of water reclamation projects with efforts to enhance the inland riparian and aquatic habitats of the region. The report includes a description of the SDRWQCB's requirement that all reclamation project proponents intending to utilize a natural watercourse for the transport or disposal of reclaimed wastewater must implement a comprehensive watercourse management program. The watercourse management program must include monitoring, interpretation, and analysis of stream response. The watercourse management program is designed to ensure protection and enhancement of the receiving water beneficial uses while facilitating greater reuse of water.

Prior to its promotion of the stream enhancement concept, the SDRWQCB conducted an initial monitoring survey, designed to identify the existing levels of nutrients and algae present within the region's major coastal lagoons and inland waters. Excessive biostimulation was a major problem within most of the region's coastal lagoons and streams when they received municipal wastewater discharges in the 1950s and 1960s. The SDRWQCB intends to ensure that any future reclamation discharges do not create similar problems. Ongoing monitoring data will aid the SDRWQCB in establishing appropriate nutrient limits and stream management measures.

Ground Water

The region's ground water basins supply a significant portion of the municipal and domestic and agricultural supply water used in the rural inland areas of the region. However, the available data on these inland ground water basins is frequently sparse and insufficient to document either current water quality conditions or trends in such conditions. Because economic activities in these inland areas rely so heavily upon the readily available ground water supply, ongoing monitoring and assessment efforts are needed to guide the protection of such ground waters.

TOTAL MAXIMUM DAILY LOAD (TMDL) PROGRAM

Clean Water Act section 303(d) requires that the SDRWQCB develop a list of waters that do not or are not expected to meet water quality standards after implementation of technology based controls [e.g., best practicable technology (BPT) and best available technology (BAT)] required under Clean Water Act Sections 301(b) and 306. This so-called "303(d) list" is compiled as part of the Water Quality Assessment Program. Waters on the 303(d) list are classified as "water quality limited." The SDRWQCB is required to establish "Total Maximum Daily Loads" (TMDLs) for "water quality limited" waters. TMDLs establish pollutant load allocations for each source of pollutants as

necessary so water quality standards can eventually be attained. The following information is included on the 303(d) list:

- Water body name;
- Total size of water body, in acres or miles;
- Size of water body “not supporting” beneficial uses, in acres or miles;
- Impairment;
- Beneficial uses affected;
- Total Maximum Daily Load (TMDL) development priority;
- Level (1, 2, or 3) which indicates the timing for initiating TMDL development; and
- Anticipated start and completion dates for TMDL development.

Level 1 waters are targeted for TMDL development over the next two years, even if the TMDL is not scheduled for completion until after the next two years. Level 2 waters are targeted for TMDL activities to be initiated over the next five years. The SDRWQCB will actively seek funding for these TMDLs, and/or funding is reasonably likely to become available through other state, federal, or third party (e.g., discharger) sources. Level 3 waters are targeted for TMDL activities to be initiated over a period not to exceed thirteen years. These schedules are based on TMDL activities for which the SDRWQCB is planning to seek funding support. These schedules are provisional and dependent on resource availability and further evaluation of TMDL applicability and feasibility.

In response to lawsuits and threats of lawsuits for alleged failure to develop TMDLs in a timely manner, the TMDL Program has recently been given high priority. As part of an effort to provide adequate funding for the TMDL program, virtually all funding for the Basin Planning Program has been redirected to the TMDL program. As discussed previously in the section on the Basin Planning Program, this is an unsatisfactory arrangement. Adequate resources must be provided to the TMDL program without sacrificing other programs.

Appendix C Section 1 summarizes the current schedule for TMDL development. **Appendix C Section 2** is a detailed schedule of TMDL activities that are planned over the next five years. **Appendix C Section 3** provides additional information about TMDL activities in the next several fiscal years.

NONPOINT SOURCE PROGRAM

As previously noted, the SDRWQCB has initiated a variety of activities to reduce nonpoint source pollution. The SDRWQCB's nonpoint source goals and activities are

described in greater detail within this section. An overview of both the SDRWQCB's current activities and planned future activities is provided.

Nonpoint source (NPS) pollution, which includes but is not limited to polluted runoff, is the leading cause of water quality impairment to surface and ground waters in the San Diego Region, as well as statewide and nationwide. Unlike pollution from distinct, identifiable point sources (e.g., a municipal wastewater treatment plant), NPS pollution comes from many diffuse sources. However, the distinction between point source and nonpoint sources is not always clear. This is particularly true regarding urban runoff, which is clearly diffuse and nonpoint in origin, but is typically channelized and discharged through discrete pipes into receiving waters. Because it is typically channelized, often through a vast network of underground pipes, urban runoff is legally considered a point source discharge and is increasingly addressed through regulations in municipal storm water permits. The complex relationship between the nonpoint source origin of urban runoff, and its point source discharge from discrete storm drain pipes, presents the SDRWQCB with both significant challenges and opportunities. The fact that the San Diego Region is one of the fastest growing urban settings in the country serves to further magnify the challenges. Because NPS pollution is primarily the cumulative result of all our business, home, and recreational activities, the ultimate challenge is to all of us, as the residents and/or visitors to the area. It is a challenge that ultimately will rely on everyone taking individual responsibility for preventing and controlling NPS pollution.

The SDRWQCB Basin Plan includes a discussion of control of NPS pollution (chapter 4, pp. 66-85). A number of SDRWQB resolutions related to NPS pollution have been incorporated into the Basin Plan (chapter 5, pp. 10 – 12). Topics addressed in these resolutions include erosion and sediment control, onsite disposal systems, waivers of waste discharge requirements, and dairy wastes.

SDRWQCB Funding

In contrast to NPS programs of most other RWQCBs, the NPS program of the SDRWQCB is still in its infancy, as a result of years of minimal funding. It is important that any evaluation of the SDRWQCB NPS program recognize the low level of NPS funding allocated to the SDRWQCB over the years. Most RWQCBs have had considerably higher levels of NPS funding for many years and, consequently, their NPS programs are further along than the SDRWQCB NPS program.

Over the last several years, the various annual updates of the SDRWQCB watershed management chapter have noted the need for additional NPS program funding. The FY 2000/01 allocation for the SDRWQCB NPS program for FY is 1.7 PY. That allocation is the highest that the SDRWQCB has ever received. Considerably more funding is needed for the SDRWQCB to do the variety of important NPS activities that

are identified within the NPS section of the WMI Chapter, and shown in the proposed FY 2001/02 workplan (**Table NPS-7**).

Nonpoint Source Problems

Although laws, programs, and funding to protect water quality and beneficial uses have historically tended to focus on point source discharges of wastes and pollutants, many of the more vexing current water quality and beneficial use problems in the San Diego Region are attributable to nonpoint sources. Nonpoint sources are the major contributors of pollution to the streams, lakes, lagoons, harbors, bays, and coastal marine waters in the San Diego Region. Nearly all water quality impairments that have been identified in the San Diego Region are caused, in whole or in part, by NPS pollution.

The most significant known and suspected NPS pollution problems in the San Diego Region include bacteriological contamination of inshore coastal marine waters; heavy metal and pesticide contamination of inland streams, coastal lagoons, harbors and bays; nutrient loading and resulting eutrophication of streams, lakes, and coastal lagoons; and sedimentation impacts to streams and coastal lagoons. Many of the problems, threats, causes, sources and pathways relating to NPS pollution are identified in **Tables 8, 9, 10, and 11**. **Table NPS-1** contains a list of the specific water bodies and the problems / threats arranged by NPS management measure category. The state's NPS management measures are described in *California's Nonpoint Source Pollution Control Program (1999)*. In the San Diego Region, the greatest NPS-caused water quality and beneficial use impairments are from activities associated with urbanization, agriculture, hydromodification, marinas and recreational boating. The SDRWQCB has identified the following high priority management measures for implementation in the San Diego Region:

- a) Management Measures for Urban Areas (3.1, 3.2, 3.3, and 3.6)
- b) Management Measures for Agriculture (1.0)
- c) Management Measures for Hydromodification (5.1, 5.3, and 5.4)
- d) Management Measures for Marinas and Recreational Boating (4.0)

Two major land use changes are occurring in the San Diego region: the conversion of undeveloped land to agricultural uses and the conversion of undeveloped and agricultural lands to urban uses. These land use changes have the potential to increase nonpoint source pollution loads into already impaired water bodies and to cause impairments where they do not exist. The NPS impacts of these land use changes are often magnified by the changes in hydrology that are often associated with the use changes, e.g., increase runoff volumes and higher peak flow rates, as a result of increased percentage of impervious surface in watersheds (i.e., hardscaping). In addition to land-based sources of NPS pollutants, which contribute to polluted runoff, many coastal cities have extensive marinas and significant recreational boating, which

contribute NPS pollution to many of the region's coastalembayments directly (i.e., even without runoff).

Table 10 contains a listing of the common impacts from different land uses and activities. The most significant effects of the four high-priority categories of land use activities that the SDRWQCB will address in its NPS program are also described in greater detail below:

Urban Development Impacts

The most significant NPS effects on many of the region's waters are from existing urban development and from the ongoing conversion of other land uses to urban uses. Impacts associated with urbanization include:

- Elimination of natural channels, including the loss of wetlands, wildlife, fisheries and riparian habitat;
- Increased sedimentation due to construction activities;
- Unmitigated changes in hydrology that upset the geomorphic equilibrium of streams, causing destabilization and erosion of channels and more frequent flooding;
- Introduction and perpetuation of non-native invasive species of plants and animals (from landscaping, aquaria, etc.); and
- Increased pollutant loads associated with urban human activity (nutrients, pathogens, pesticides, PCBs, PAHs, petroleum, salts, nitrates, metals, trash, sediment, etc.).

Table 9 contains a comprehensive listing of pollutants that typically enter waters of the region via urban runoff, among other pathways. Although the NPS impacts associated with urbanization can be quite severe to a variety of surface water types, some of the areas most sensitive to NPS impacts in the San Diego Region are the coastal beaches and the water supply reservoirs.

As noted previously, imported water comprises the majority of the water supply for the San Diego Region. Although most of the storage reservoirs for the imported water were intentionally constructed in rural, undeveloped areas of the region, urban development is now expanding into the watersheds of many of these reservoirs. New upstream urban development can pose a serious threat to the region's water supply.

A high incidence of beach closures continues to plague several coastal areas in the San Diego Region. Beach closures are attributable to both point source discharges from sewer overflows, and nonpoint, diffuse sources of polluted urban runoff.

Agricultural Development Impacts

In many ways, the adverse impacts to water quality and beneficial uses associated with agricultural land uses are similar to those of urban land uses. The adverse impacts from agricultural development in the San Diego Region include:

- Disturbance to the bed of natural channels, causing a loss of acreage and quality of wetlands, wildlife, fisheries and riparian habitat;
- Irrigation-related impairment of fish habitat, including reduced stream flows where surface water diversion and/or ground water pumping significantly reduce surface flow and quality;
- Increased sedimentation due to hillside clearing and road construction activities;
- Increased nutrient loads from animal rearing facilities, plant nurseries, and fertilizer runoff;
- Increased herbicide and pesticide loads from associated agricultural activity; and
- Introduction and perpetuation of non-native invasive species of plants and animals.

Hydromodification Impacts

Most new urban and agricultural development projects in the region involve some level of hydromodification. Hydromodification impacts are also caused by the construction of major highways and railways, utility projects, marinas, and flood protection projects for existing urban development. The adverse impacts to water quality and beneficial uses associated with hydromodification projects in the San Diego Region include:

- Elimination of natural channels and associated habitat complexity, including loss of wetlands, wildlife, fisheries and riparian habitat;
- Increased sedimentation due to construction activities;
- Changes in hydrology that upset the geomorphic equilibrium of streams causing destabilization and erosion of channels;
- Increased water temperatures;
- Introduction and perpetuation of non-native invasive species of plants and animals; and
- Decreased natural water quality purification functions that could otherwise intercept and assimilate or detoxify pollutants.

The impact of decreasing or eliminating the water quality purification functions of the region's streams is most pronounced in urban and agricultural settings, where such functions are most needed. The adverse downstream impacts of urbanization can therefore be magnified by the extent of hardscaping that is utilized within the drainage systems of the developments. The extensive use of imported water in the region has led to significant increases in the dry-season flow of many of the region's inland streams, and these flows can contain associated urban and agricultural pollutants.

Marinas and Recreational Boating Impacts

Recreational boating opportunities exist along most of the region's 85 miles of coastline, as well as within several of the region's largest coastal embayments. Marinas and recreational boating activities contribute, or threaten to contribute, significant NPS pollution to San Diego Bay, Mission Bay, and several other smaller embayments. Due to the topography and semi-arid climate, there are few natural lakes in the San Diego region. Inland boating activities are primarily limited to the region's water supply reservoirs, where water purveyors impose strict controls over any boating that might be allowed. In contrast, typical impacts on lagoons, estuaries, or bays from marinas and/or recreational boats include:

- Elimination or reduction of natural lagoon, estuary, or bay habitat as a consequence of marina construction;
- Changes in hydrology caused by a marina that upset the stability of adjacent wetland areas;
- Reduced water circulation within marina areas, leading to increased incidents of stagnation and nuisance algal growth;
- Petroleum discharges from marina fueling stations and from vessels.
- Illicit sewage discharges from vessels and from faulty pumpout facilities;
- Release of biocides from boat hull paint through passive leaching and in-water hull cleaning activities;
- Release of pollutants during topside cleaning, maintenance, and repair activities;
- Discharges of fish wastes, spent zinc anodes, trash, and other vessel and marina material; and
- Introduction and perpetuation of non-native marine species from ballast water discharges.

Because of their on-water location, marinas and recreational boating present an ongoing and direct threat to surface water quality. Whereas NPS pollution from inland urban and agricultural sources may undergo natural purification processes prior to passing into nearby surface waters, no such treatment occurs with NPS pollution from vessels or marinas. There is no alternative better than an emphasis on pollution prevention. Boating and marina NPS control measures require a combination of good siting and design, diligent operation and maintenance, and active and ongoing public education.

In a 1996 report to the San Diego Bay Interagency Water Quality Control Panel (SDBIWQCP), PRC Environmental Management, Inc. (PRC) estimates the total annual mass loading of copper to San Diego Bay, from both external and in-bay sources, to be 37,589 kg per year (82,818 pounds per year). The relative contributions to this loading are: 43% from passive leaching of antifouling hull paints, 34% from in-water hull cleaning, 6% from sediment to water transfer, 6% from ship and boat yards, and 11%

from wet and dry weather runoff. To be effective, any effort to significantly reduce copper loading to San Diego Bay must place a high priority on reducing the 77% that is directly attributable to in-bay vessels.

Nonpoint Source Strategy

California's Nonpoint Source (NPS) Pollution Control Program (Program) has been in effect since 1988. A key element of the Program is the "Three-Tiered Approach," through which self-determined implementation is favored, but more stringent regulatory authorities are utilized when necessary to achieve implementation. The NPS program is being upgraded to enhance efforts to protect water quality, and to conform with Section 319 of the Clean Water Act (CWA) and Section 6217 of the Coastal Zone Act Reauthorization (CZARA). The lead State agencies for the NPS Program are the SWRCB, the nine RWQCBs and the California Coastal Commission. The long-term goal of the NPS Program is to "improve water quality by implementing the management measures identified in the California Management Measures for Polluted Runoff Report (CAMMPR) by 2013."

Long-term Nonpoint Source Management Goals

The SDRWQCB has four broad goals for nonpoint source management in the San Diego Region.

1. Monitor and assess ambient water quality and beneficial uses to determine the need for and performance of nonpoint source management measures throughout the region.
2. Ensure effective implementation of land-use specific nonpoint source pollution management measures throughout the region.
3. Facilitate implementation of watershed management plans for prevention and control of nonpoint source pollution throughout the region.
4. Provide technical assistance and education to the public, public agencies, and private landowners and other interested parties about prevention and correction of nonpoint source pollution problems.

Table NPS-2 links the four long-term goals of the SDRWQCB with the short-term objectives and the corresponding management measures that will be pursued by the SDRWQCB during the next five years. The ability of the SDRWQCB to accomplish all the proposed activities is directly dependent on the amount of funding that is available.

Nonpoint Source Program Implementation

As stated within California's Nonpoint Source Pollution Control Program, the SDRWQCB's NPS program is being implemented through a three-tiered approach. The tiers are:

- Tier One: Self-Determined Management Practices;
- Tier Two: Regulatory-Based Encouragement; and
- Tier Three: Effluent Limitations.

Through a progression, as needed, through the three tier activities, each of the NPS goals will be achieved. The three-tier approach being utilized in the NPS program is nearly identical to the three tiers that have been established for the development of watershed management plans, described earlier in the section entitled "stakeholder involvement." The SDRWQCB's emphasis on a watershed management approach emphasizes active stakeholder involvement and facilitates self-determined management practices (tier one).

The SDRWQCB's incorporation of NPS-related activities into two new subregional, watershed-based units is expected to facilitate the three-tier approach and the expeditious implementation of necessary best management practices. After making the adjustments and going through the learning curves associated with reorganization, the increased internal coordination and integration of the SDRWQCB's NPS activities with those of related SDRWQCB programs is expected to facilitate each portion of the three-tier approach.

To be effective at addressing the multitude of known nonpoint sources of pollution, increased coordination will be needed among the numerous SDRWQCB programs and activities. Greater emphasis will need to be placed on outreach and education, with the traditional regulatory approach of the SDRWQCB being reserved for those situations where such regulatory-based encouragement is needed. The SDRWQCB must expand participation with local municipal governments on the review of new urban development projects. From the early planning and environmental review process, to the post construction management of development projects, the SDRWQCB should provide technical guidance to help ensure that new developments are designed and managed to reduce their potential for the short and long-term generation of nonpoint source pollution.

Tier One NPS Activities

The SDRWQCB will continue and (where possible within available funding) expand activities to encourage self-determined NPS management practices. As noted, to enhance the effectiveness of the SDRWQCB in addressing the often diffuse, complex, and interrelated issues of nonpoint source pollution control, the SDRWQCB staff has recently undergone a significant organizational restructuring. The SDRWQCB reorganization includes two separate, watershed-based sections that will address all nonpoint pollution control and related activities on a watershed basis. Staff within each

of these two subregional sections will be responsible for a variety of interrelated activities, including: environmental document review, water quality certification, NPDES municipal and construction storm water permit oversight, watershed management activities, public education and outreach, volunteer monitoring coordination, grant management, and a number of other nonpoint source related activities.

Tier one encouragement includes public education and outreach. SDRWQCB staff will continue to actively participate with local resource conservation districts, educational organizations, lagoon foundations, and others in providing information to the public on NPS pollution, the NPS program, appropriate management measures, and best management practices.

Meetings

There are a large number of NPS-related meetings in which SDRWQCB staff should actively participate. These meetings may be categorized as follows:

1. Meetings related to 319(h) project contract management
(**Table 6** lists San Diego region 319(h) projects)
2. Meetings related to San Diego region 205(j) projects
(**Table 5** lists San Diego region 205(j) projects)
3. Routine meetings of various NPS-related groups and projects
(**Table NPS-8** lists many (but probably not all) such meetings, as well as meetings related to 319(h) contract management and San Diego region 205(j) projects); and
4. Non-routine meetings with various groups, organizations, and agencies with interests, responsibilities, resources, programs, and/or projects that are NPS-related
(**Table NPS-9** lists many (but probably not all) such groups, organizations, and agencies);
5. Meetings related to San Diego region Proposition 13 grant contract management;
6. Meetings related to soliciting proposals for and developing and refining project concepts and proposals for 319(h), 205(j), Proposition 13, and other grants.

It is important for SDRWQCB staff to participate in such meetings (including public workshops, etc.) because working with other entities is pivotal to the NPS program. To some degree, this is true because the state's NPS strategy emphasizes a non-regulatory approach. More fundamentally, however, this is true because some NPS pollution simply is not amenable to a traditional regulatory approach. The nature of NPS pollution is such that the San Diego Regional Water Quality Control Board will probably never have as much control over NPS pollution as it does over some other forms of pollution. In order to make progress on preventing and reducing NPS pollution, SDRWQCB staff needs to work with others who can control or influence the entities and activities that cause NPS pollution. Since the SDRWQCB NPS program is

in its infancy, many meetings (particularly those in category 4 above) are needed simply to initiate and establish working relationships with the many groups and organizations with a role in NPS pollution prevention / control and to enable SDRWQCB staff to determine where additional contacts and more formal arrangements (e.g.MOUs) are most likely to be productive. Significant results from SDRWQCB staff participation in meetings is likely to occur only to the extent that such participation is frequent and consistent over the long term.

For a number of years, SDRWQCB staff has participated as the lead on the Agua Hedionda Lagoon Technical Advisory Committee in implementing best management practices to reduce the existing bacteriological contamination in lagoon waters near the shellfish growing grounds. Birds roosting on the facilities of the aquaculture business appear to be the primary source of the bacterial contamination. Given the limited NPS resources available to SDRWQCB staff and other higher priority issues, SDRWQCB staff plans to phase out its participation on this committee.

The SDRWQCB will also continue to support Tier One activities through active participation in the development, review, selection, and management of grants.

Grants

Federal grants are available for water quality planning and assessments under the authority of Clean Water Act section 205(j), and for nonpoint source implementation programs under the authority of Clean Water Act section 319(h). Proposition 13 Grants are available for similar activities. As previously noted, accurate monitoring and assessment of ambient water quality and beneficial uses is critical to identifying not only the presence and magnitude of existing problems, but also the effectiveness of all management efforts to correct those problems.

Only certain types of governmental and non-governmental entities are eligible to receive 205(j), 319(h), and Proposition 13 grant funds. Proposals must also meet certain criteria in order to be eligible for funding. Although these grants are discussed here, work funded by 205(j), 319(h), and Proposition 13 grants may also be applicable to the TMDL Program and/or the Wetlands Program, described separately within those respective sections.

Each year, staffs of the SWRCB and the RWQCBs develop requests for proposals (RFPs) for 205(j), 319(h), and Proposition 13 grant projects. The RFPs are then made available to interested parties by the SWRCB. The RFPs list projects for which proposals are specifically requested, but proposals for other projects may also be submitted. Staff of the SWRCB, and the RWQCBs (and USEPA, for 205(j) and 319(h) grants) evaluate the submitted proposals to determine eligibility, prioritize eligible proposals for funding, and determine which projects to fund. The SWRCB makes the

final decision about which projects will be funded (subject to USEPA approval for 205(j) and 319(h) grants.

205(j) and some Proposition 13 grants are intended for water quality planning and assessment activities, such as determining the source(s) or cause(s) of water quality / beneficial use problems, development of watershed management plans, and other planning functions directed towards resolution of water quality problems or threats. Although 205(j) grants are often awarded for work applicable to a particular geographic area, staff of the SWRCB (not the local RWQCB) oversee all 205(j) grants. **Table 5** provides an overview of completed, ongoing, and pending 205(j) projects in the San Diego region. RWQCB staff will oversee Proposition 13 grants awarded for work in their respective regions

319(h) and some Proposition 13 grants are intended for implementation of measures to reduce or prevent water quality and beneficial use impairments resulting from nonpoint source discharges of pollutants or to restore lost or degraded watershed resources. RWQCB staff oversee the 319(h) grants awarded for work in their respective regions. **Table 6** provides an overview of completed, ongoing, and pending 319(h) projects in the San Diego region. RWQCB staff will oversee Proposition 13 grants awarded for work in their respective regions

The next RFPs for 205(j), 319(h), and Proposition 13 grant projects are scheduled to be made public in or about March of 2001. SDRWQCB staff is in the process of compiling a list of projects to be included in the RFP. **Table 7** is a preliminary list of such projects. (Also see subsequent section on Priorities and Allocation of Resources.)

Grant Management

Currently, the SDRWQCB staff oversees five 319(h) NPS grants. It is anticipated that five additional grants will be approved for implementation beginning in FY 01-02. Since two existing grants will end in FY 00-01, the total number of 319(h) NPS grants managed by SDRWQCB staff during FY 01-02 is expected to be eight. The status (completed, ongoing, or pending) of 319(h) projects in the San Diego region is identified in **Table 6**.

Since the submittal deadline for the first round of Proposition 13 proposals is after the date of preparation of this document, it is not known how many Proposition 13 grants SDRWQCB staff will manage.

Grant Development Review

SDRWQCB staff will assist in the development of the next RFPs, solicit and encourage project proposals for those RFPs, and review, evaluate, and rank those proposals which are submitted for funding. Staff will assist NPS grant applicants in developing

project proposals that will effectively implement NPS control measures. Staff will encourage projects that will implement appropriate CZARA management measures.

SDRWQCB will continue to assist project proponents in receiving grant funding for the implementation of self-determined management practices. Although the SDRWQCB intends to utilize the Tier One, non-regulatory approach as much as possible, the SDRWQCB will shift emphasis to Tier Two and Tier Three regulatory approaches, if and when it appears that inadequate progress is being made toward eliminating NPS problems and threats.

Tier Two NPS Activities

The SDRWQCB will continue (and, where possible) expand, those activities that use regulatory-based encouragement to promote the implementation of appropriate NPS management practices. The threat of a stringent regulatory approach, and the potential for future enforcement actions by the SDRWQCB, can provide an additional incentive to commit to increased NPS pollution prevention and control. Through expanding the ongoing review of applications for Clean Water Act section 401 water quality certification, the SDRWQCB can require adequate structural and non-structural management practices be incorporated into all new urban development projects to reduce the future generation and impact of urban runoff. The waivers of waste discharge requirements, (which may be utilized in lieu of water quality certification), can be conditioned on the incorporation of adequate NPS control and treatment measures.

Even before implementation of the staff reorganization, the SDRWQCB began expanding its internal coordination of nonpoint source prevention and control activities with those of water quality certification and the NPDES municipal and construction storm water permits. Of most immediate and direct impact are the structural NPS measures that are being implemented to meet water quality certification requirements.

Caulerpa taxifolia Infestation Detection, Eradication, and Prevention

In June, 2000, an infestation of the invasive non-native marine alga *Caulerpa taxifolia* was found in Agua Hedionda Lagoon on the coast of the San Diego region. This was the first known infestation of *Caulerpa* on the west coast of North America. The *Caulerpa* infestation of the Mediterranean Sea has caused widespread destruction of marine ecosystems and is now considered to be out of control. In order to prevent such destruction in California waters, SDRWQCB staff, in partnership with several other organizations, including Santa Ana RWQCB staff, has directed substantial resources (including most of the SDRWQCB NPS Program resources) to the efforts to detect, eradicate, and prevent *Caulerpa taxifolia* infestations. SDRWQCB staff intends to continue to do so, at least until such time as other agencies (e.g., Department of Fish and Game) are adequately funded and staffed for such efforts.

The SDRWQCB currently is the lead agency for *Caulerpa* response. SDRWQCB staff chair the Southern California *Caulerpa* Action Team (SCCAT), a group of representatives of various agencies involved in the *Caulerpa* response effort. *Caulerpa* poses an enormous threat to the beneficial uses associated with the native marine life of California waters. For this reason alone, involvement of the SDRWQCB and other RWQCBs is appropriate. However, RWQCBs have a particularly important role to play since *Caulerpa* infestations are believed to be attributable to discharges from saltwater aquaria and since eradication of *Caulerpa* requires chemical (e.g., chlorine) treatment of infested areas. As with many other NPS efforts, outreach and education is a key component of the *Caulerpa* response effort. SDRWQCB staff has played and continue to play an important role in the outreach and education component of the *Caulerpa* response effort. SDRWQCB staff has formed a *Caulerpa* Action Team (CAT, not to be confused with SCCAT), consisting of three senior level and three junior level staff, to focus on outreach and education. The CAT has hired a student to assist in these efforts.

Dealing with *Caulerpa* is now the highest priority for SDRWQCB NPS resources. The SDRWQCB *Caulerpa* response effort alone requires considerably more resources than the entire allocation available to the SDRWQCB for the NPS Program. SDRWQCB staff intends to pursue additional resources for *Caulerpa* response.

Water Quality Certification

By Federal law (Clean Water Act Section 401) every applicant for a Federal permit or license for an activity which may result in a discharge of fill into waters of the United States (including wetlands), must also request and receive State certification that the proposed activity will not violate water quality standards. Since nearly all of the large new residential, commercial, and industrial developments that are being proposed in the San Diego Region are required to have a Federal CWA Section 404 permit (individual or nationwide) from the U. S. Army Corps of Engineers, these same projects also need water quality certification from the State. Because water quality certification should be based on a finding that water quality standards will not be violated by either the short-term or long-term effects of a project, adequate NPS pollution prevention and control measures should be incorporated into the design of each project before the SDRWQCB can support such a finding. Without water quality certification, or a waiver thereof, the Federal license or permit can not be issued and the development project can not go forward. This need to provide, deny, or waive water quality certification imparts extensive responsibility, as well as extensive authority, to the SDRWQCB. Close coordination of the SDRWQCB's water quality certification and NPS programs is essential to assure the long-term protection of water quality and beneficial uses.

SDRWQCB water quality certification activities are also described in a later section of this chapter, *Water Quality Certification (Wetlands) Program*.

Planning and Environmental Review Participation

Within severe funding constraints, the SDRWQCB has participated in the environmental review (e.g., CEQA) process for major urban development projects, to encourage and facilitate projects which incorporate measures to minimize the generation of the NPS pollutants and their effects. The SDRWQCB realizes that through good project design, many subsequent NPS problems can be avoided, thereby reducing the potential for future degradation of water quality and loss of beneficial uses. Although it currently receives no funding specifically for environmental document review, the SDRWQCB attempts to participate on the most significant projects. If funding becomes available for greater participation, the SDRWQCB intends to utilize the environmental review process as a major avenue to encourage and facilitate NPS management measures.

Under an expanded environmental review program, the SDRWQCB will be able to provide a more integrated and effective approach to NPS pollution prevention and control. It is anticipated that earlier participation in the environmental review process will reduce the number of development projects that must undergo later redesign in order to receive water quality certification, thus eliminating the time and costs that such changes would require. An effective, integrated program is also needed for urban development projects because of significant potential impacts resulting from both hydromodifications and generation of typical urban pollutants.

SDRWQCB water quality certification activities are also described in a later section of this chapter, *Water Quality Certification (Wetlands) Program*.

A similar Tier Two approach is planned by the SDRWQCB to reduce NPS pollutants and impacts from several other activities, including: horse manure management, non-native red fire ant suppression, nursery waste management, non-native invasive plant and animal introduction and perpetuation, agricultural erosion control, and golf course management. During the upcoming year the SDRWQCB intends to shift emphasis on marine invasive exotics from management practice development and implementation to monitoring and assessment. A recent statewide requirement that vessel ballast water be flushed prior to entering or returning to California waters may significantly lessen the threat of introduction of invasive marine species to the San Diego Region's coastal embayments. However, monitoring and assessment of the effectiveness of the flushing requirement is still needed.

Within funding limits, the SDRWQCB intends to initiate or expand Tier Two activities as described below:

Horse Manure Management

New and additional efforts are needed to reduce the amount of pollution that is being contributed by horse manure in the San Juan Watershed Management Area. This

effort will implement a management measure similar to NPS/CZARA Management Measure 1B, but some modifications may need to be developed.

Horse manure has been found to be a problem for water quality in several areas of the San Diego region. It is believed that improper management of horse manure at stables and in numerous private residential horse corrals throughout the San Juan Watershed Management Area is directly contributing to the elevated fecal coliform levels of San Juan Creek. Discharges of horse manure wastes and wastewater is also contributing to elevated levels of nutrients and biochemical oxygen demand in the creek. The increased levels of nutrients and organics are also expected to contribute to the extensive growth of filamentous algae throughout lower San Juan Creek. Improved manure management practices need to be implemented in order to reduce water quality impairment in both the creek and in the ocean waters near the mouth of the creek. Information and experience gained from this effort in the San Juan Watershed Management Area would be transferred for use in other watershed management areas with similar horse manure and elevated coliform problems throughout the San Diego region and the state.

Non-native Red Fire Ant Suppression Pollutant Control

New efforts are needed to minimize the water quality impacts associated with the state's new and rapidly expanding efforts to control the introduction and spread of the non-native red fire ant. This effort will implement NPS/CZARA Management Measure 1D.

The recent introduction of the non-native red fire ant to the San Diego region has triggered concerns regarding the possible adverse effects of the resulting pest control measures on water quality and beneficial uses in the San Diego region. Non-native red fire ants have been found in the large ornamental nurseries of the southern Orange County portion of the San Diego region. Since runoff from these nurseries has already contributed to water quality reductions in the receiving water streams, increased pest management efforts to control non-native red fire ants could exacerbate the existing problems. SDRWQCB plans to focus initial efforts on the San Juan Watershed Management Area. The SDRWQCB plans to actively participate with other environmental and regulatory agencies to ensure that control of the red fire ants can be attained with minimal impact on the water quality of the surface and ground waters of the San Juan Watershed Management Area. Information and experience gained from this effort in the San Juan Watershed Management Area would be transferred for use in other affected watershed management areas throughout the San Diego region and the state.

Nursery Runoff Pollutant Control

New and additional efforts are needed to reduce the discharge of pollutants from ornamental nurseries to the streams in the San Juan Watershed Management Area. These efforts would implement NPS/CZARA Management Measure 1D.

Runoff from the large ornamental nurseries of the southern Orange County portion of the San Diego region, particularly in the San Juan Watershed Management Area, has contributed to water quality degradation in several nearby streams. Nutrients have been found in elevated concentrations and excessive growth of filamentous algae is a problem in these streams. The pre-emergent herbicide oxadiazon has also been found in elevated concentrations near nurseries in both fish tissues and stream sediments. More effective control measures are needed at the nurseries in order to reduce the discharge and impact of nursery pollutants. San Juan Watershed Management Area is a UWA Category I priority watershed. Information and experience gained from this effort in the San Juan Watershed Management Area would be transferred for use in other affected watershed management areas throughout the San Diego region and the state.

Non-native Invasive Riparian and Fresh Water Species Control

New and additional efforts are needed to stop the introduction and spread of and to remove non-native invasive plants and animals throughout the riverine areas of the San Diego region. There are no existing NPS/CZARA management measures for the control of non-native invasive species of riparian and wetland vegetation or aquatic animals.

Non-native invasive species of vegetation have seriously degraded the beneficial uses of many streams and rivers of the San Diego region. The most significant impacts are being caused by giant reed (*Arundo donax*) and salt cedar (*Tamarix sp.*). Both of these species are rapidly displacing native streamside vegetation. Their significant adverse environmental effects have included: (a) dramatic reductions in wildlife habitat values and functions; (b) increases in flooding due to increased flow obstruction; (c) reductions in dry-season base flows within streams due to extensive increases in evapotranspiration water losses; (d) reductions in recreational uses due to physical restrictions to passage, reduced recreational and habitat values, and reduced areas of open water. With giant reed another insidious effect has been the conversion of the infected river's hydrologic regime from one that is flood dominated, to one that is fire dominated. Rivers that have become dominated by giant reed have more easily caught fire, and burned with an intensity that far exceeds that which would ever occur with native vegetation. Salt cedar has the additional impact of creating saline soils. The salt exuded from salt cedar leaves during the course of transpiration creates soil salinities that inhibit the germination of native plants. Since land disturbances have been found to encourage the establishment of non-native vegetation, management measures must be developed and implemented which will ensure that land disturbances do not continue to exacerbate the problem throughout the San Diego region. Information and

experience gained from this effort in various San Diego region watershed management areas would be transferred for use in other affected watershed management areas in the state.

Agricultural Erosion Control

New and additional efforts are needed to reduce the amount of soil eroded from agricultural land and discharged into streams within the Santa Margarita River Watershed Management Area. This effort will implement NPS/CZARA Management Measure 1A.

Erosion from agricultural soil disturbances has caused elevated sedimentation in numerous streams within the Santa Margarita River Watershed Management Area. The soil disturbance is associated primarily with citrus and avocado groves, and, to a lesser extent, with row crops. Information and experience gained from this effort in the Santa Margarita River Watershed Management Area would be transferred for use in other watershed management areas with similar erosion control problems throughout the San Diego region and the state. The SDRWQCB has a Memorandum of Understanding (MOU) (SDRWQCB Resolution No. 92-21) with the Resource Conservation Districts (RCDs) of San Diego County and the Elsinore-Murietta-Anza RCD (SDRWQCB Resolution No. 79-25) to coordinate agency responses to increased erosion, or threats of increased erosion, from agricultural activities. Per the MOUs, the RCDs will typically be the first responders to complaints of agricultural erosion, and the RCDs will provide technical assistance to the landowners to correct the erosive conditions. In those cases where the RCDs are unable to get cooperation from the landowner in implementing necessary corrective actions, the cases are referred to the SDRWQCB for consideration of formal enforcement action. It is through this regulatory-based (Tier Two) encouragement that agricultural erosion control may best be achieved. The SDRWQCB will continue to work with the RCD's to reduce erosion on agricultural lands utilizing Tier One and Two approaches, and when necessary, Tier Three enforcement actions to correct chronic problems.

Golf Course Management

New and additional efforts are needed to reduce the amount of pollutants, including nutrients, pesticides, herbicides, and organic materials, discharged from golf courses. Pollutant releases from golf courses are a contributor to reduced water quality in several areas of the San Diego region. Such impacts are most pronounced in those golf courses that were constructed decades ago when vegetative buffers were not a requirement for receiving water quality certification from the state. In such older courses, turf grass is commonly manicured and maintained down to the edge of the creeks or rivers which traverse them. This direct connection between the streams and the manicured turf grass facilitates the transport of fertilizers, pesticides, and grass clippings into the streams. Such inputs can impact both surface and ground waters. The SDRWQCB will initiate focused activities on golf courses on the lower Sweetwater

River, in the San Diego Bay Watershed Management Area. This effort will implement measures similar to NPS/CZARA Management Measures 1C and 1D for agriculture.

Pollutants from these golf courses contribute directly to impacts on the lower Sweetwater River and San Diego Bay near the river mouth. A major desalination plant is being constructed near the river mouth, and any increased nutrients discharged from the golf courses can be expected to exacerbate any impacts from the desalination plant discharge. The Sweetwater River is tributary to San Diego Bay, which is a UWA Category I priority. Information and experience gained from this effort in the San Diego Bay Watershed Management Area will be transferred and utilized by the SDRWQCB in other watershed management areas with similar golf courses.

Tier Three NPS Activities

Although the SDRWQCB actively encourages self-determined implementation of NPS control measures and practices, the SDRWQCB has utilized waste discharge requirements and enforcement actions, where appropriate efforts were not forthcoming.

Enforcement actions have been taken for several kinds of activities, including: agricultural land clearing where the erosion control recommendations of the local RCD were being ignored, new urban construction projects where there were inadequate erosion control measures, green waste storage sites, horse corrals with inadequate runoff protection, and commercial nurseries where there were inadequate measures to prevent the discharge of contaminated irrigation runoff. To provide greatest regulatory control over nonpoint source pollution from dairies, the SDRWQCB continues to regulate all dairy facilities with waste discharge requirements. The waste discharge requirements address not only dairy barn wastes and wastewater, but also dairy corral runoff.

Statewide Activities

The SDRWQCB participates in several statewide activities as part of the Nonpoint Source Program. This participation includes NPS program roundtables, CWA section 401 water quality certification coordinating committee meetings, Urban Runoff Task Force meetings, and assistance in the annual preparation of the NPS and planning grant Request for Proposals.

WATER QUALITY CERTIFICATION (WETLANDS) PROGRAM

Wetlands Inventory

Wetlands are important water resources that are sensitive to a number of the stressors and subject to a number of the water quality problems and threats listed in **Tables 8 through 11**. Wetlands provide habitat for many species of biota and serve water quality protection functions for downstream waters. A large percentage of wetland

acreage has been lost or degraded as a result of dredging, filling, and other physical modifications.

The SDRWQCB participates in the Southern California Wetlands Recovery Project (formerly the Southern California Wetlands Clearinghouse) as part of an effort to preserve and protect remaining wetlands. Major coastal wetland resources in the San Diego region (and other parts of southern California) are identified in the "*Southern California Coastal Wetlands Inventory*" (SCCWI), prepared by the wetlands recovery project. The SCCWI briefly describes the major coastal wetlands, land ownership, land use, hydrology, water quality, soil, habitat types, wildlife resources, enhancement status, watershed management issues, and major pressures and/or threats facing the coastal wetlands. The SCCWI is not all-inclusive. Very small coastal wetlands and the inland wetlands of the region have not yet been added to the SCCWI, although SDRWQCB staff is participating in efforts to do so. The SCCWI includes profiles for the following San Diego region coastal wetlands.

Orange County

San Juan Creek Mouth

San Diego County

San Mateo Lagoon

Las Flores Lagoon

Santa Margarita Lagoon

San Luis Rey River Estuary

Buena Vista Lagoon

Agua Hedionda Lagoon

Batiquitos Lagoon

San Elijo Lagoon

San Dieguito Lagoon

Los Penasquitos Lagoon

Mission Bay

Famosa Slough

San Diego Bay

Tijuana Estuary

Wetlands Grants

SDRWQCB staff intends to increase efforts to obtain wetlands protection grants for wetlands in the San Diego region. These grants, which are offered pursuant to Clean Water Act section 104(b)(3), are available to state, tribal and local (regional, county, and municipal) governments. SDRWQCB staff intends to work with other agencies to develop project ideas and grant proposals. The SDRWQCB recently received a 104(b)(3) wetlands grant to do hydrogeomorphic functional assessments. Whether the

SDRWQCB or another entity is the grantee, such grants could make an important contribution to protecting and restoring wetlands of the region.

Long-term Wetlands Goals

The following provisions of the *California Wetlands Conservation Policy* (established August 23, 1993 through Executive Order W-59-93) are long term goals for wetlands in the San Diego region:

"Ensure no over all net loss and achieve a long-term net gain in the quantity, quality, and permanence of wetlands acreage and values in California in a manner that fosters creativity, stewardship and respect for private property."

"Reduce procedural complexity in the administration of State and Federal wetlands conservation programs."

"Encourage partnerships to make landowner incentive programs and cooperative planning efforts the primary focus of wetland conservation and restoration."

The SDRWQCB will utilize the following guiding principles and strategies to ensure that these long term goals for wetlands in the Region are achieved:

- Protect and preserve existing wetlands.
- Restore historical salt and brackish marsh habitats wherever possible.
- Protect existing salt and brackish marsh habitats from conversion to freshwater marsh habitats.
- Restore and enhance freshwater wetland habitats, except in areas where such habitats would encroach into salt or brackish water marsh habitats.
- Protect vernal pool complexes as unique wetland habitats which are extremely difficult to recreate.
- Preserve high quality ephemeral stream habitats in those areas (such as on military bases and in large rural parks) which can be protected from the hydrological changes which accompany urban development. (The concept of such "stream reserves" was discussed in the 1988 SDRWQCB staff report on *Stream Enhancement and Reclamation Potential - 1988 through 2015.*)
- Preserve wildlife corridor and connectivity functions along riverine systems.

- Protect wetlands from the invasion of non-native species.
- Provide sufficient vegetated buffer around wetlands to protect wetland habitat functions.
- Promote public awareness of the important habitat and water quality protection functions of wetlands.
- Expand the acreage of wetlands in developing areas to treat urban runoff, recognizing that wetlands provide water quality protection functions.
- Encourage the use of constructed wetlands to improve water quality and enhance beneficial uses throughout the region.
- Encourage the use of “live stream” discharges, where appropriate and beneficial to both stream habitat beneficial uses and increased use of reclaimed water.
- Promote management measures that preserve the natural hydrology of the floodway and do not require clearing or other maintenance of native riparian and wetland vegetation in order to maintain flow capacities needed to reduce damage from flooding along riverine systems.

Water Quality Certification (CWA Section 401)

Section 401 of the Clean Water Act requires each person applying for a federal permit or license for an activity that may result in a discharge of pollutants into waters of the United States to obtain certification from the state that the activity meets all applicable state water quality standards, limitations, and restrictions. The SDRWQCB's water quality certification activities have focused on projects requiring federal Section 404 permits for the discharge of dredged or fill material to surface waters. The SDRWQCB evaluates applications and assists the applicants for each proposed project requiring water quality certification to ensure that water quality standards (both beneficial uses and water quality objectives) will be met. Where standards will be met, the SDRWQCB may waive water quality certification (through a waiver of waste discharge requirements) pursuant to California Code of Regulations, Title 23, Article 4 or recommend certification or conditional certification to the SWRCB. A recommendation to the SWRCB for denial of certification is made only if the proposed project cannot be modified to meet water quality standards. Careful consideration is given to addressing the potential impact of each proposed project on wetland habitats, using the aforementioned principles and strategies.

NPDES PROGRAM

The NPDES program deals with the discharges of pollutants from point sources to surface waters. Certain discharges to surface waters that are not subject to NPDES requirements can be regulated by waste discharge requirements issued under the Non Chapter 15 Program. (See subsequent section on Non Chapter 15 Program.)

The NPDES Program consists of two somewhat distinct parts - the so-called "waste water" part and the so-called "storm water" part. The waste water portion of the NPDES program is well established, having been in place since the 1970s. It is also well funded, compared to some other programs and compared to the storm water portion of the NPDES program. The waste water portion of the NPDES program deals with pollutants in "waste water" effluents discharged to surface waters from publicly owned treatment works, industrial facilities, and other facilities. In contrast to the waste water portion of the NPDES program, the storm water portion of the NPDES program was not initiated until about 1990. The storm water portion of the NPDES program deals with discharges of pollutants in runoff from municipalities and industrial sites, including construction sites. The storm water portion of the NPDES program has long been inadequately funded. Although storm water funding has recently increased, funding still falls short of what is needed. Although additional funding is needed for both portions of the NPDES program, the need is greater for the storm water portion, since the waste water portion of the program is better funded than the storm water portion; the storm water portion of the program is intended to address polluted runoff (which is currently the primary cause of water quality problems); and requirements in storm water permits are changing more than those in waste water permits.

Over the years since the inception of the NPDES program, increasingly stringent limits on waste water discharges have greatly reduced water quality and beneficial use problems resulting from such discharges. Waste water discharges continue to pose the potential to cause problems, but, as a group, they are no longer the primary cause of current water quality problems. Polluted runoff is now the primary cause of water quality problems. The Nonpoint Source program and the storm water portion of the NPDES program are intended to correct these problems.

By law, NPDES permits are supposed to be reissued every five years. However, NPDES waste water permits have progressed to the point where the changes in permit requirements in the current reissuance cycle are, in most (but not all) cases, relatively minor and are of relatively minor significance to the protection of water quality and beneficial uses. Nevertheless, even where there are no significant changes, the reissuance process is time consuming and resource intensive. In contrast, major changes in requirements are still being made (or considered) as NPDES storm water permits are reissued and those changes often are of major significance to protection of water quality and beneficial uses.

Where major changes in permit requirements are proposed (or where the proposed permit requirements are controversial for any other reason), the permit reissuance process can be extremely time consuming and resource intensive. This has been the case with the still-ongoing reissuance process for the municipal storm water permit for San Diego County. This process was initiated more than five years ago, but a reissued permit has yet to be adopted. This was also the case during the last NPDES permit reissuance cycle with the permit for the discharge from South Bay Power Plant to San Diego Bay and the permits for discharges from shipyards to San Diego Bay. After a very protracted SDRWQCB reissuance processes, petitions were filed for SWRCB review of these permits. After the SWRCB acted on the petitions, lawsuits were filed on these permits. Over three years elapsed between when the permit reissuance process for the South Bay Power Plant was initiated and when all permitting actions associated with the lawsuit settlement were completed. Over four years elapsed between initiation of the permit reissuance process for the shipyards and the final superior court ruling on the lawsuit. Such lengthy permitting processes, appeals, and lawsuits require substantial SDRWQCB staff resources, as well as time. The South Bay Power Plant permit is due to be reissued in FY 01-02 and the shipyard permits are due to be reissued in FY 02-03. The reissuance process for these permits may again prove to be protracted, especially to the extent that more stringent requirements may be appropriate. Consequently, it is important to recognize that "uniform cost factors" for NPDES permit reissuance are unlikely to provide a realistic estimate of the actual resources needed for the SDRWQCB to reissue these or certain other permits.

Most of the NPDES waste water permit reissuance workload is concentrated in one year of the five year reissuance cycle. This makes it difficult or impossible to maintain adequate compliance oversight activities level during that year. In order to even out the reissuance workload in the past, the SDRWQCB has issued permits for a period of less than five years. By shortening the reissuance cycle, this approach increases the staff resources devoted to reissuance, and, therefore, reduces the staff resources devoted to compliance oversight. Since this approach has not been advantageous for purposes of protecting water quality or beneficial uses, SDRWQCB staff does not plan to recommend that permits be issued for periods of less than five years. In order to even out the reissuance workload, SDRWQCB staff is considering allowing some low threat-to-water-quality permits to expire and be automatically administratively extended pending reissuance, as provided for by state and federal law. No adverse impacts to water quality or beneficial uses are expected to result from this approach.

Largely due to the priority USEPA and the SWRCB have assigned to eliminating and avoiding backlogs of expired permits, reissuance has been emphasized over issuance of new permits. This has the potential for two undesirable results. First, permits for proposed new discharges are likely to be delayed, with possible resulting adverse consequences for permit applicants. Second, permits for existing, but previously

unpermitted discharges are likely to continue without permits and the accompanying compliance oversight, with possible resulting adverse consequences for water quality and beneficial uses. In the future, after the permits that expire in FY 2001-2002 are reissued, SDRWQCB staff intends to prioritize new permits over permit reissuance. At this time, new permits are planned for existing discharges from Navy facilities concentrated around San Diego Bay and for discharges from recreational boat marinas in the several small craft harbors located in the San Diego region. These permits are likely to include requirements for both waste water and storm water, as is the case in SDRWQCB-issued permits for boatyards and shipyards. One new NPDES permit is also planned for a dairy. This permit would replace existing non-NPDES waste discharge requirements for the dairy. Three other recently adopted NPDES permits replaced non-NPDES waste discharge requirements for other dairies.

Facilities regulated under the waste water portion of the NPDES program are inspected infrequently – often less than once annually at “minor” facilities. In contrast, most facilities regulated under the Non Chapter 15 program are inspected at least three times annually. SDRWQCB staff intends to pursue adequate resources to conduct additional inspections at facilities regulated under that NPDES waste water program. A preliminary goal is to conduct three inspections annually at all facilities which are categorized as “major,” “threat to water quality category 1,” or “complexity category A;” or where compliance is based on best management practices (BMPs) and to conduct one inspection annually at all other facilities.

Facilities regulated under the storm water portion of the NPDES program are also inspected infrequently. SDRWQCB staff intends to pursue adequate resources to conduct additional inspections at facilities regulated under that NPDES storm water program. The following are preliminary goals:

1. Inspect each municipal storm water co-permittee at least once annually. Such inspections could consist of both field work and file reviews analagous to a pretreatment compliance audit or inspection.
2. Inspect each industrial storm water site on the average of once every two years.
3. Inspect each construction storm water site once per year. Annual inspections are important because construction is often completed in less than one year and even more often in less than two years.

SDRWQCB staff intends to increase the number of inspections over a period of years, as the level of staff effort necessary to deal with industrial storm water non-filers is expected to decrease.

Since they are both intended to deal with polluted runoff, the storm water portion of the NPDES program and the Nonpoint Source program need to be closely integrated and coordinated. SDRWQCB staff needs to determine how the two programs can fit and work together most effectively. One area where the storm water portion of the NPDES program and the Nonpoint Source program, as well as the Water Quality Certification

program, can be integrated and coordinated is participation in the CEQA process. Although new development is a major cause or source of water quality and beneficial use problems and threats (from polluted runoff and physical modifications), and although the CEQA process is an important tool for preventing or mitigating those problems and threats, the SDRWQCB has not had adequate resources to participate in the CEQA process. SDRWQCB staff intends to pursue funding to enable it to fully participate in the CEQA process. SDRWQCB staff anticipates that participation in the NPDES program to address needs and concerns related to the storm water portion of the NPDES program, the Nonpoint Source program, and the Water Quality Certification program can be readily integrated and coordinated.

It is important to distinguish between different roles for SDRWQCB role in the CEQA process. Although it is seldom the CEQA lead agency, the SDRWQCB has an important role to play in the CEQA process when it is not lead agency. Early and ongoing SDRWQCB participation in the CEQA process when another agency is the lead can prevent water quality / beneficial use problems and/or reduce the time and expense of preventing and/or correcting such problems.

NON CHAPTER 15 PROGRAM

Since discharges to land from point sources are regulated by waste discharge requirements issued under the Non Chapter 15 Program, this program is often assumed to be applicable only to discharges to land from point sources. In fact, discharges to land from nonpoint sources can also be regulated by Non Chapter 15 waste discharge requirements. More importantly, certain discharges to surface waters from sources that are not subject to NPDES permits can be regulated under Non Chapter 15 waste discharge requirements. Such discharges include those from dredge and fill activities and those from nonpoint sources. Polluted runoff, (i.e., nonpoint source pollution) is now the primary cause of water quality problems in the San Diego region. Consequently, the authority of the SDRWQCB to issue Non Chapter 15 waste discharge requirements for nonpoint sources is a potentially very important tool to be used in addressing current water quality problems. SDRWQCB staff anticipates making increased use of this tool as greater attention is directed towards nonpoint source pollution. (See previous section on Nonpoint Source Program.) Where it is practical to do so, individual or general waste discharge requirements may be adopted for nonpoint source discharges to surface waters. Some of these nonpoint sources may be in categories for which waste discharge requirements have not been issued by the SDRWQCB in the past, possibly including categories for which waste discharge requirements are currently waived by the SDRWQCB.

Recent legislation requires that RWQCBs review and reevaluate waivers of waste discharge requirements. It is apparent from **Table NPS-5** that many of the categories

of discharges covered by waivers may be considered nonpoint source discharges. Consequently review and reevaluation of waivers will provide an excellent opportunity to coordinate and integrate the SDRWQCB Non Chapter 15 and Nonpoint Source Programs. The waiver review and reevaluation will also help to bring Non Chapter 15 resources to bear on water quality and beneficial use problems and threats resulting from nonpoint sources. In some cases existing waivers and waiver conditions may be appropriate. In other cases, waivers with revised conditions, including revised monitoring and reporting requirements, may be appropriate. In other cases, it may be appropriate to replace categorical waivers with general or individual waste discharge requirements. In any case, SDRWQCB staff will need to consider how to identify and keep track of the facilities to which waivers apply and how to evaluate whether waiver conditions are met. It appears that there are not good records on which waivers apply to which facilities. It also appears that, in many cases, existing information and procedures are not adequate to enable determination of whether waiver conditions are met.

Coordination and integration of the Non Chapter 15 Program and Water Quality Certification (Wetlands) Program could also help prevent and respond to water quality and beneficial use problems. As discussed previously, water quality certification is an important tool for protecting beneficial uses of the region's waters. However, enforcement authority is a potential weakness of the water quality certification program. In order to strengthen the ability to take enforcement action in connection with activities requiring water quality certification, it may be appropriate for waste discharge requirements incorporating the conditions of water quality certification to be issued for such activities. This would enable all the enforcement tools provided by the Porter-Cologne Act for dealing with violation of waste discharge requirements to be used where violations of conditions of water quality certification occur.

For some proposed discharges subject to regulation under the Non Chapter 15 program, the SDRWQCB is the lead agency for purposes of CEQA. This has been the case for waste discharge requirements for several different activities related to the US Navy nuclear aircraft carrier San Diego Bay homeporting project. When the SDRWQCB is the CEQA lead agency, issuance of waste discharge requirements can be extremely time consuming and resource intensive. Consequently, it is important to recognize that "uniform cost factors" for issuance of waste discharge requirements are unlikely to provide a realistic estimate of the actual resources needed for the SDRWQCB to issue waste discharge requirements where the SDRWQCB is the CEQA lead agency.

PRIORITIES AND ALLOCATION OF RESOURCES

SWRCB and RWQCB priorities should be established and resources should be allocated on the basis of what is most important and effective for purposes of protecting

and restoring water quality and beneficial uses. A variety of different types of priorities are important to protection of water quality and beneficial uses. These include:

- Type 1: Priorities between programs (i.e. which program is a higher priority?)
- Type 2: Priorities within a program (i.e. which activity in a particular program is a higher priority?)
- Type 3: Priorities between water quality and beneficial use problems and threats (i.e. which problem / threat is a higher priority?)
- Type 4: Priorities between sources / causes of water quality and beneficial use problems and threats (i.e. which source / cause is a higher priority?)
- Type 5: Geographic priorities (i.e. which site, place, area, body of water, water body type, watershed, or portion of a watershed is a higher priority?)

Setting one type of priority may be useful in setting another type of priority. For example, determining Type 4 priorities may help determine Type 1 priorities. The following paragraphs briefly discuss current priorities for the San Diego region. SDRWQCB staff intends to further define different types of priorities in the future.

The Type 1 priority question of which program is a higher priority is, for practical purposes, a question of where additional funding is most needed. In other words, it is a question of where an additional increment of resources (i.e. beyond current levels) would do the most to protect water quality and beneficial uses. The following programs are most in need of additional funding:

1. Water Quality Certification (Wetlands) Program
2. Nonpoint Source Program
3. Water Quality Assessment Program
4. NPDES Program (storm water portion)
5. Basin Planning Program

These programs are critical to addressing most of the San Diego region's most pressing water quality and beneficial use problems and threats. Although funding for some, if not all, of these programs has recently increased or is expected to increase, additional funding is needed for these programs in order to address these problems and threats effectively. The longstanding shortage of funding for these programs should not be interpreted to mean that these programs or the problems or threats they are intended to address are low priorities for the SDRWQCB. The shortage is, instead, a reminder that (1) the funding sources which provide the limited resources available for water quality / beneficial use protection generally require that the funds be used in specific programs and/or for specific activities and (2) that the SDRWQCB is obligated to fulfill its legal mandates. Consequently, discretionary resources and grant funds are quite small and the SDRWQCB has little flexibility in allocating resources to where they are most needed to protect water quality and beneficial uses.

Table 12 lists priorities for activities in various SDRWQCB programs, as well as some priorities that involve multiple programs or cross program lines. In general, these priorities represent work that would be done (or done sooner) if an additional increment

of funding (i.e. beyond current levels) were to become available for the listed SDRWQCB programs. As such, **Table 12** provides an indication of both Type 1 and Type 2 priorities. Some of these priority activities have been briefly discussed in previous sections of this document. In some cases (particularly some of the multi-program and cross-program items), the listed priorities represent needed changes that are entirely or partially beyond the control of the SDRWQCB to accomplish (i.e. other entities would need to be involved and/or take action). It is apparent from **Table 12** that oversight of new development (e.g. by participation in the CEQA process) and oversight of compliance with existing requirements are priority activities.

SDRWQCB staff understands that joint efforts of SWRCB and RWQCB staff are underway to better define Type 3 and Type 4 priorities statewide. However, priorities in a particular region may not coincide with statewide priorities. **Tables 8 through 11** provide different ways of looking at water quality / beneficial use problems and threats in the San Diego region, typical sources or causes of those problems and threats, and the stressors involved in those problems and threats. In some cases, the distinction between a problem or threat, a source or cause, a stressor, and a pathway is somewhat blurred. For example, urban runoff is sometimes identified as a problem or threat sometimes as a source or cause. However, urban runoff might better be considered a pathway by which certain pollutants (which are stressors) enter bodies of water, rather than a problem or threat or a source or cause *per se*. **Table 11** indicates the San Diego region watershed management areas where the problems and threats listed in **Table 8** occur. SDRWQCB staff plans to refine and update these tables and to use them to better define priorities.

Targeted watersheds and the Unified Watershed Assessment priority watersheds represent geographic (Type 5) priorities. However, they should not be viewed as the only geographic priorities in the region. Geographic priorities may be defined in other ways, e.g. as specific to a portion of a watershed management area, to a particular water body, or to a particular type of water body. It would be a mistake to consider all waters, beneficial uses, problems and threats, discharges, activities, and programs in targeted watersheds or Unified Watershed Assessment priority watersheds to be higher priority than those in any other watershed (see previous section on Watershed Management Scale.) For example, there may be potential 205(j), 319(h), and/or Proposition 13 projects in non-targeted watersheds that warrant a higher priority (e.g. because they would be more effective in protecting water quality and beneficial uses) than such projects in targeted watersheds. With 205(j), 319(h), and Proposition 13 proposals, among other watershed-oriented, stakeholder-initiated activities, timing and windows of opportunity are often of the essence. In other words, it is important to take advantage of promising initiatives and efforts when they arise. A good project deserves support, whether or not it is in a targeted or priority watershed, and whether or not it is identified in RFPs for 205(j), 319(h), or Proposition 13 grants. SDRWQCB staff intends to rate projects on their merits (i.e., for protecting / restoring water quality and beneficial

uses), regardless of whether they are located in targeted or priority watersheds and whether they are identified in the RFPs for 205(j) / 319(h) / Proposition 13 grants. Although SDRWQCB staff strives to identify worthwhile projects for grant funding, it would be presumptuous to think that SDRWQCB staff has thought of or is aware of all such projects. In other words, SDRWQCB staff is committed to being open to worthwhile projects, whether or not SDRWQCB staff had the idea for the project or whether the project is identified in an RFP or some other list of projects. (All other factors being equal, lists of targeted watersheds and projects identified in the RFP could be used as a "tie-breakers.")

Historically, the SDRWQCB has established its priorities and allocated its resources on a program basis, with only limited consideration of resource allocations towards specific watersheds or to specific water quality or beneficial use problems or threats. The SDRWQCB cannot devote all of its resources to one watershed or to a few watersheds to the exclusion of all other watersheds. Neither can the SDRWQCB ignore its legal mandates nor the conditions attached to various funding sources. Accordingly, resources must be allocated to regionwide activities and to activities in each of the nine designated watershed management areas in order to accomplish work that the SDRWQCB is required to do (e.g. issue permits for new discharges, take necessary enforcement action, respond to citizen complaints etc.). It is also important to recognize that the "watershed approach" is not an end in and of itself. The desired end result is efficient and effective protection and restoration of water quality and beneficial uses. Prioritizing and doing work on the basis of hydrologic boundaries is appropriate only to the degree that it is advantageous for purposes of this end result. Some work may best be prioritized and done on some basis other than on hydrologic boundaries. Under the watershed management approach, the SDRWQCB will emphasize allocation of discretionary resources [e.g., 205(j), 319(h), and Proposition 13 grants] to where funding would be most effective in protecting water quality and beneficial uses.

Although the shift to a watershed management approach is a functional change for the SDRWQCB, it does not necessarily dictate a change in organizational structure. For some watersheds where there are numerous and complex issues with a high workload, it may be desirable for the SDRWQCB to make an "organizational" change to set up a permanent unit to work specifically on issues in the watershed. In other watersheds with less complex issues, a temporary "team" of staff members with a staff coordinator may be designated to work on the watershed issues for a distinct period of time outside of the framework of a formal or permanent organizational unit. With the recent availability of additional resources and the resulting increase in SDRWQCB staffing levels, reorganization of SDRWQCB staff is occurring incrementally. One of the recent changes has been the creation of two sub-regional units (one for the northern portion of the region, the other for the southern portion) that are responsible for several different programs (or portions of programs) in those two parts of the region. Another recent change is to create two units that would be responsible regionwide for several different

programs (or portions of programs) that apply to a particular type or category of facility. It is hoped that these changes will facilitate integration and coordination of programs and activities, improve efficiency and effectiveness, and enable additional resources to be directed to activities most critical to addressing the greatest water quality and beneficial use problems and threats. Most staff, including supervisors, in the recently reorganized units will need to become familiar with a number of different programs in which they do not have experience. Staff in the sub-regional (watershed) units will also need to become familiar with the geographic areas to which they are assigned. Since moving through these learning curves will take time, it will also take time for the benefits of the reorganization to be achieved.

The shift to watershed management will also require strong leadership and consensus building skills on the part of staff appointed to direct or participate in watershed management activities. The following important early steps for implementing the watershed management approach are currently underway at the SDRWQCB:

- Identification of key staff to participate in watershed management activities;
- Training staff on the principles of watershed management;
- Establishing an efficient means of communication among various watershed team staff members to ensure that staff work is consistent with the priorities and goals;
- Budgeting sufficient time for key staff to do priority work;
- Implementing functional or organizational changes as necessary; and
- Designating roles and responsibilities of each SDRWQCB organizational unit for implementation of the watershed management approach.

**TABLE 1
SAN DIEGO REGION HYDROLOGIC DIVISIONS**

1/2/01

BASIN NUMBER	HYDROLOGIC BASIN	BASIN NUMBER	HYDROLOGIC BASIN
1.00	SAN JUAN HYDROLOGIC UNIT	2.74	Burnt HSA
1.10	Laguna HA	2.80	Aguanga HA
1.11	San Joaquin Hills HSA	2.81	Vail HSA
1.12	Laguna Beach HSA	2.82	Devils Hole HSA
1.13	Aliso HSA	2.83	Redec HSA
1.14	Dana Point HSA	2.84	Tule Creek HSA
1.20	Mission Viejo HA	2.90	Oakgrove HA
1.21	Oso HSA	2.91	Lower Culp HSA
1.22	Upper Trabuco HSA	2.92	Previtt Canyon HSA
1.23	Middle Trabuco HSA	2.93	Dodge HSA
1.24	Gobernadora HSA	2.94	Chihuahua HSA
1.25	Upper San Juan HSA		
1.26	Middle San Juan HSA	3.00	SAN LUIS REY HYDROLOGIC UNIT
1.27	Lower San Juan HSA	3.10	Lower San Luis HA
1.28	Ortega HSA	3.11	Mission HSA
1.30	San Clemente HA	3.12	Bonsall HSA
1.31	Prima Deshecha HSA	3.13	Moosa HSA
1.32	Segunda Deshecha HSA	3.14	Valley Center HSA
1.40	San Mateo Canyon HA	3.15	Woods HSA
1.50	San Onofre HA	3.16	Rincon HSA
1.51	San Onofre Valley HSA	3.20	Monserate HA
1.52	Las Pulgas HSA	3.21	Pala HSA
1.53	Stuart HSA	3.22	Pauma HSA
		3.23	La Jolla Amago HSA
2.00	SANTA MARGARITA HYDROLOGIC UNIT	3.30	Warner Valley HA
2.10	Ysidora HA	3.31	Warner HSA
2.11	Lower Ysidora HSA	3.32	Combs HSA
2.12	Chappo HSA		
2.13	Upper Ysidora HSA	4.00	CARLSBAD HYDROLOGIC UNIT
2.20	DeLuz HA	4.10	Loma Alta HA
2.21	DeLuz Creek HSA	4.20	Buena Vista Creek HA
2.22	Gavilan HSA	4.21	El Salto HSA
2.23	Vallecitos HSA	4.22	Vista HSA
2.30	Murrieta HA	4.30	Agua Hedionda HA
2.31	Wildomar HSA	4.31	Los Monos HSA
2.32	Murrieta HSA	4.32	Buena HSA
2.33	French HSA	4.40	Encinas HA
2.34	Lower Domenigoni HSA	4.50	San Marcos HA
2.35	Domenigoni HSA	4.51	Batiquitos HSA
2.36	Diamond HSA	4.52	Richland HSA
2.40	Auld HA	4.53	Twin Oaks HSA
2.41	Bachelor Mountain HSA	4.60	Escondido Creek HA
2.42	Gertrudis HSA	4.61	San Elijo HSA
2.43	Lower Tualota HSA	4.62	Escondido HSA
2.44	Tualota HSA	4.63	Lake Wohlford HSA
2.50	Pechanga HA		
2.51	Pauba HSA	5.00	SAN DIEGUITO HYDROLOGIC UNIT
2.52	Wolf HSA	5.10	Solana Beach HA
2.60	Wilson HA	5.11	Rancho Santa Fe HSA
2.61	Lancaster Valley HSA	5.12	La Jolla HSA
2.62	Lewis HSA	5.20	Hodges HA
2.63	Reed Valley HSA	5.21	Del Dios HSA
2.70	Cave Rocks HA	5.22	Green HSA
2.71	Lower Coahuila HSA	5.23	Felicita HSA
2.72	Upper Coahuila HSA	5.24	Bear HSA
2.73	Anza HSA		

**TABLE 1
SAN DIEGO REGION HYDROLOGIC DIVISIONS**

1/2/01

BASIN NUMBER	HYDROLOGIC BASIN	BASIN NUMBER	HYDROLOGIC BASIN
5.30	San Pasqual HA	9.00	SWEETWATER HYDROLOGIC UNIT
5.31	Highland HSA	9.10	Lower Sweetwater HA
5.32	Las Lomas Muertas HSA	9.11	Telegraph HSA
5.33	Reed HSA	9.12	La Nacion HSA
5.34	Hidden HSA	9.20	Middle Sweetwater HA
5.35	Guejito HSA	9.21	Jamacha HSA
5.36	Vineyard HSA	9.22	Hillsdale HSA
5.40	Santa Maria Valley HA	9.23	Dehesa HSA
5.41	Ramona HSA	9.24	Galloway HSA
5.42	Lower Hatfield HSA	9.25	Sequan HSA
5.43	Wash Hollow HSA	9.26	Alpine Heights HSA
5.44	Upper Hatfield HSA	9.30	Upper Sweetwater HA
5.45	Ballena HSA	9.31	Loveland HSA
5.46	East Santa Teresa HSA	9.32	Japatul HSA
5.47	West Santa Teresa HSA	9.33	Viejas HSA
5.50	Santa Ysabel HA	9.34	Descanso HSA
5.51	Boden HSA	9.35	Garnet HSA
5.52	Pamo HSA		
5.53	Sutherland HSA	10.00	OTAY HYDROLOGIC UNIT
5.54	Witch Creek HSA	10.10	Coronado HA
6.00	PENASQUITOS HYDROLOGIC UNIT	10.20	Otay Valley HA
6.10	Miramar Reservoir HA	10.30	Dulzura HA
6.20	Poway HA	10.31	Savage HSA
6.30	Scripps HA	10.32	Proctor HSA
6.40	Miramar HA	10.33	Jamul HSA
6.50	Tecolote HA	10.34	Lee HSA
7.00	SAN DIEGO HYDROLOGIC UNIT	10.35	Lyon HSA
7.10	Lower San Diego HA	10.36	Hollenbeck HSA
7.11	Mission San Diego HSA	10.37	Engineer Springs HSA
7.12	Santee HSA	11.00	TIJUANA HYDROLOGIC UNIT
7.13	El Cajon HSA	11.10	Tijuana Valley HA
7.14	Coches HSA	11.11	San Ysidro HSA
7.15	El Monte HSA	11.12	Water Tanks HSA
7.20	San Vicente HA	11.20	Potrero HA
7.21	Fernbrook HSA	11.21	Marron HSA
7.22	Kimball HSA	11.22	Bee Canyon HSA
7.23	Gower HSA	11.23	Barrett HSA
7.24	Barona HSA	11.24	Round Potrero HSA
7.30	El Capitan HA	11.25	Long Potrero HSA
7.31	Conejos Creek HSA	11.30	Barrett Lake HA
7.32	Glen Oaks HSA	11.40	Monument HA
7.33	Alpine HSA	11.41	Pine HSA
7.40	Boulder Creek HA	11.42	Mount Laguna HSA
7.41	Inaja HSA	11.50	Morena HA
7.42	Spencer HSA	11.60	Cottonwood HA
7.43	Cuyamaca HSA	11.70	Cameron HA
8.00	PUEBLO SAN DIEGO HYDROLOGIC UNIT	11.80	Campo HA
8.10	Point Loma HA	11.81	Tecate HSA
8.20	San Diego Mesa HA	11.82	Canyon City HSA
8.21	Lindbergh HSA	11.83	Clover Flat HSA
8.22	Chollas HSA	11.84	Hill HSA
8.30	National City HA	11.85	Hipass HSA
8.31	El Toyon HSA		
8.32	Paradise HSA		

TABLE 2
FEATURES OF SAN DIEGO REGION WATERSHED MANAGEMENT AREAS
(also see **Appendix A**)

WATERSHED MANAGEMENT AREA	HYDROLOGIC UNIT	BASIN #	MAJOR STREAMS	MAJOR RESERVOIRS	MAJOR COASTAL WATERS	DESIGNATED SPECIAL NATURAL RESOURCE AREAS*	MAJOR LAND USE JURISDICTIONS*
San Juan WMA	San Juan Hydrologic Unit (901.00)	901.10	Aliso Creek	none	Aliso Creek mouth; Pacific Ocean	Aliso/Wood Canyons Wilderness Park (Co Or); Irvine Coast Marine Life Refuge (DFG) ; Heisler Park Ecological Reserve (DFG) & ASBS (SWRCB); Laguna Beach Marine Life Refuge (DFG); South Laguna Beach Marine Life Refuge (DFG); Laguna Coast Wilderness Park (CO Or); Crystal Cove State Park (DP&R)	Cities of Laguna Beach, Laguna Niguel & others ; County of Orange
		901.20	San Juan Creek	none	Dana Point Harbor; San Juan Creek mouth; Pacific Ocean	O'Neill Regional Park (Co Or); Caspers Regional Park (Co Or) ; Wagon Wheel Canyon Regional Park (Co Or); Riley Wilderness Park (Co Or); Niguel Marine Life Refuge (DFG); Dana Point Marine Life Refuge (DFG); Doheny Beach Marine Life Refuge (DFG)	Cities of Dana Point, San Juan Capistrano, Mission Viejo & others , County of Orange; US Forest Service
		901.30	none	none	Pacific Ocean		City of San Clemente; County of Orange
		901.40	San Mateo Creek	none	San Mateo Creek mouth (aka San Mateo Lagoon); Pacific Ocean	San Mateo Creek Wetland Natural Preserve (DP&R)	Counties of Orange & Riverside; USMC Base Camp Pendleton; US Forest Service
		901.50	San Onofre Creek	none	San Onofre Creek mouth; Pacific Ocean	San Onofre State Beach (DP&R)	County of San Diego; USMC Base Camp Pendleton
			Las Flores Creek (Las Pulgas Canyon)	none	Las Flores Lagoon; Pacific Ocean		County of San Diego; US Marine Corps Base Camp Pendleton
Santa Margarita River WMA	Santa Margarita Hydrologic Unit (902.00)	902.10 & 902.20	Santa Margarita River	Lake O'Neill	Santa Margarita Lagoon (aka Santa Margarita Estuary); Pacific Ocean	Santa Margarita Ecological Reserve (SDSU)	County of San Diego; US Marine Corps Base Camp Pendleton; US Naval Weapons Station Fallbrook
		902.50, 902.60, 902.70, 902.80 & 902.90	Temecula Creek	Vail Lake	n/a		City of Temecula; County of Riverside; US Forest Service
		902.30 & 902.40	Murietta Creek	Skinner Reservoir; Eastside Reservoir (under construction)	n/a	Santa Rosa Ecological Preserve (Nature Conservancy)	Cities of Temecula & Murietta; County of Riverside
San Luis Rey River WMA	San Luis Rey Hydrologic Unit (903.00)	903.00	San Luis Rey River	Lake Henshaw	San Luis Rey River mouth (aka San Luis Rey River Estuary); Oceanside Harbor; Del Mar Boat Basin; Pacific Ocean	Guajome Lake Regional Park (Co SD)	City of Oceanside; Counties of San Diego & Riverside; US Forest Service

TABLE 2
FEATURES OF SAN DIEGO REGION WATERSHED MANAGEMENT AREAS
(also see **Appendix A**)

WATERSHED MANAGEMENT AREA	HYDROLOGIC UNIT	BASIN #	MAJOR STREAMS	MAJOR RESERVOIRS	MAJOR COASTAL WATERS	DESIGNATED SPECIAL NATURAL RESOURCE AREAS*	MAJOR LAND USE JURISDICTIONS*
Carlsbad WMA	Carlsbad Hydrologic Unit (904.00)	904.10	Loma Alta Creek	none	Loma Alta Slough; Pacific Ocean		City of Oceanside
		904.20	Buena Vista Creek	none	Buena Vista Lagoon; Pacific Ocean	Buena Vista Lagoon Ecological Reserve (DFG)	Cities of Oceanside, Carlsbad & Vista
		904.30	Agua Hedionda Creek	none	Agua Hedionda Lagoon; Pacific Ocean	Dawson-Los Monos Canyon Reserve (UCNRS)	Cities of Carlsbad, Vista & San Marcos
		904.40	Canon de las Encinas	none	Pacific Ocean		City of Carlsbad
		904.50	San Marcos Creek	none	Batiquitos Lagoon; Pacific Ocean	Batiquitos Lagoon Ecological Reserve (DFG); Encinitas Marine Life Refuge (DFG)	Cities of Carlsbad, Encinitas & San Marcos
		904.60	Escondido Creek	Lake Wohlford	San Elijo Lagoon; Pacific Ocean	San Elijo Lagoon Ecological Reserve (DFG, Co SD)	Cities of Encinitas, Solana Beach & Escondido; County of San Diego
San Dieguito River WMA	San Dieguito Hydrologic Unit (905.00)	905.10, 905.20 & 905.30	San Dieguito River	Lake Hodges	San Dieguito Lagoon (aka San Dieguito River Estuary or San Dieguito Slough); Pacific Ocean	San Dieguito Lagoon Ecological Reserve (DFG); San Dieguito River Park (JPA)	Cities of Solana Beach, Del Mar, San Diego, Escondido & Poway; County of San Diego
		905.40	Santa Maria Creek	none	n/a		County of San Diego
		905.50	Santa Ysabel Creek	Sutherland Reservoir	n/a		County of San Diego
Penasquitos / Mission Bay WMA	Penasquitos Hydrologic Unit (906.00)	906.10 & 906.20	Los Penasquitos Creek	Miramar Reservoir	Los Penasquitos Lagoon (aka Sorrento Lagoon); Pacific Ocean	Los Penasquitos Marsh Natural Preserve (DP&R); Torrey Pines Reserve (DP&R); Carmel Mountain Preserve (City SD) ; Los Penasquitos Canyon Preserve (City SD)	Cities of Del Mar, San Diego & Poway; County of San Diego
		906.30	none	none	Mission Bay, Pacific Ocean	Scripps Reserve (UCNRS); San Diego - La Jolla Ecological Reserve (DFG) & ASBS (SWRCB); San Diego Marine Life Refuge (DFG) & ASBS (SWRCB)	City of San Diego
		906.40	Rose Creek	none	Mission Bay; Pacific Ocean	Kendall-Frost Reserve (UCNRS) / Northern Wildlife Preserve (City SD); Elliot Reserve (UCNRS); Rose Canyon Open Space (City SD); Marian Bear Memorial (aka San Clemente & Rose Canyons) Natural Park (City SD); La Jolla Natural Park (City SD); Soledad Natural Park (City SD)	City of San Diego, US Marine Corps Air Station Miramar
		906.50	Tecolote Creek	none	Mission Bay; Pacific Ocean	Tecolote Canyon Natural Park (City SD)	City of San Diego
San Diego River WMA	San Diego Hydrologic Unit (907.00)	907.00	San Diego River	Lake Murray; San Vicente Reservoir; Lake Jennings; El Capitan Reservoir; Cuyamaca Reservoir	San Diego River mouth, Famosa Slough; Pacific Ocean	Sycamore Canyon County Open Space Preserve (Co SD); Oak Oasis County Open Space Preserve (Co SD) Mission Trails Regional Park (City SD); Mission Valley Preserve (City SD); Southern Wildlife Preserve (City SD)	Cities of San Diego, La Mesa Poway, Santee & El Cajon; County of San Diego; Dept of Parks & Recreation; US Forest Service

TABLE 2
FEATURES OF SAN DIEGO REGION WATERSHED MANAGEMENT AREAS
 (also see **Appendix A**)

WATERSHED MANAGEMENT AREA	HYDROLOGIC UNIT	BASIN #	MAJOR STREAMS	MAJOR RESERVOIRS	MAJOR COASTAL WATERS	DESIGNATED SPECIAL NATURAL RESOURCE AREAS*	MAJOR LAND USE JURISDICTIONS*
San Diego Bay WMA	Pueblo San Diego Hydrologic Unit (908.00)	908.00	Chollas Creek	none	San Diego Bay; Pacific Ocean	Point Loma Ecological Reserve (incl. Cabrillo National Monument) (NPS & Navy); Sunset Cliffs Natural Park (City SD)	Cities of San Diego, National City, La Mesa & Lemon Grove; San Diego Unified Port District, US Navy
	Sweetwater Hydrologic Unit (909.00)	909.00	Sweetwater River	Sweetwater Reservoir; Loveland Reservoir	Sweetwater Marsh; San Diego Bay; Pacific Ocean	Sweetwater Marsh National Wildlife Refuge (USFWS); San Diego National Wildlife Refuge - South San Diego Bay Unit (USFWS); San Diego National Wildlife Refuge - Otay-Sweetwater Unit (USFWS); Cuyamaca Rancho State Park (DP&R)	Cities of San Diego, National City, Chula Vista, La Mesa & Lemon Grove; County of San Diego; San Diego Unified Port District; Department of Parks & Recreation; US Navy; US Forest Service
	Otay Hydrologic Unit (910.00)	910.00	Otay River	Lower Otay Reservoir; Upper Otay Reservoir	San Diego Bay; Pacific Ocean	San Diego National Wildlife Refuge - South San Diego Bay Unit (USFWS); San Diego National Wildlife Refuge - Otay-Sweetwater Unit (USFWS); Chula Vista Wildlife Reserve (SDUPD); South Bay County Biological Study Area (Co SD); Otay Mountain Wilderness Area (Co SD) ; Otay Valley Regional Park (planned) (CO SD); Silver Strand State Beach (DP&R); Otay National Land & Wildlife Management Area (BLM)	Cities of San Diego, Chula Vista, Imperial Beach & Coronado; County of San Diego; San Diego Unified Port District; US Navy; Bureau of Land Management
Tijuana River WMA	Tijuana Hydrologic Unit (911.00)	911.10	Tijuana River	Rodriguez Reservoir & ?? Reservoir (both in Mexico)	Tijuana River Estuary (aka Tijuana Estuary or Tijuana Slough); Pacific Ocean	Tijuana River National Estuarine Research Reserve (NOAA); Tijuana Slough National Wildlife Refuge (USFWS); Border Field State Park (DP&R); Tijuana River County Open Space Preserve (Co SD)	Cities of San Diego & Imperial Beach; County of San Diego
		911.20, 911.30, 911.40, 911.50, 911.60, 911.70	Cottonwood Creek	Barrett Reservoir; Morena Reservoir	n/a	Otay National Land & Wildlife Management Area (BLM)	County of San Diego; ; Bureau of Land Management; US Forest Service
		911.80	Campo Creek	none	n/a	County of San Diego	
* Partial listing							

**TABLE 2A
SAN DIEGO REGION HYDROLOGIC UNITS, WATERSHED MANAGEMENT AREAS,
AND UNIFIED WATERSHED ASSESSMENT (UWA) WATERSHEDS**

HYDROLOGIC UNIT (HU)	WATERSHED MANAGEMENT AREA (WMA)	UWA WATERSHED*
San Juan HU (901.00)	San Juan WMA	Aliso-San Onofre (18070301)
Santa Margarita HU (902.00)	Santa Margarita River WMA	Santa Margarita (18070302)
San Luis Rey HU (903.00)	San Luis Rey River WMA	San Luis Rey-Escondido (18070303)
Carlsbad HU (904.00)	Carlsbad WMA	
San Dieguito HU (905.00)	San Dieguito WMA	San Diego (18070304)
Penasquitos HU (906.00)	Penasquitos / Mission Bay WMA	
San Diego HU (907.00)	San Diego River WMA	
Pueblo San Diego HU (908.00)	San Diego Bay WMA	
Sweetwater HU (909.00)		
Otay HU (910.00)		
Tijuana HU (911.00)	Tijuana River WMA	Cottonwood-Tijuana (18070305)

* All San Diego region watersheds are UWA Category I watersheds.

**TABLE 3
SAN DIEGO REGION PROGRAMS**

1/2/01

PROGRAM	PRIMARY WATER RESOURCE PROTECTED	LEGAL MANDATE	REGIONAL BOARD ACTIVITIES
Basin Planning	Surface & Ground Water	Designate beneficial uses and water quality objectives for surface and ground waters and establish implementation plans to protect the beneficial uses of waters of the state pursuant to the Clean Water Act Section 303 and California Water Code Section 13245.	Adopt, review, and update a Basin Plan which designates beneficial uses and water quality objectives and which establishes policies for water quality management.
Water Quality Assessment	Surface & Ground Water	Prepare reports to the public on the condition of waters of the state pursuant to Clean Water Act Section 303(d) and 305(b).	Inventory water quality conditions of waters of the state. Determine where water quality standards are not met and the degree to which waters support beneficial uses. Prepare Water Quality Assessment, including 303(d), 305(b), and other lists.
Total Maximum Daily Load (TMDL)	Surface Water	Where water quality standards are not met, take steps to meet such standards, pursuant to Clean Water Act Section 303(d)	Develop and implement strategies to meet water quality standards where such standards are not met.
Nonpoint Source (NPS)	Surface Water	Prevent, reduce, and control nonpoint source pollution pursuant to Clean Water Act Section 319 and the Coastal Zone Act Reauthorization Amendments (CZARA).	Implement the SWRCB Nonpoint Source Management Plan; perform outreach and education activities; identify potential 205(j) & 319(h) grant projects; assist in preparation of statewide request for 205(j) & 319(h) grant proposals; solicit proposals for 205(j) & 319(h) grant projects; assist 205(j) & 319(h) grant applicants; participate in selection of 205(j) & 319(h) grant projects; advise 205(j) grantees; administer 319(h) grant contracts; assist and coordinate with a variety of organizations; monitor water quality and beneficial uses to assess changes and the success of NPS control measures; participate in CEQA process for proposed new development; coordinate NPS activities with water quality certification program activities and NPDES storm water program activities.
Water Quality Certification (aka Wetlands)	Surface Water (particularly wetlands)	Ensure that proposed actions which require federal permits will meet state water quality standards (i.e. beneficial uses and water quality objectives) pursuant to Clean Water Act Section 401. Such federal permits include CWA Section 404 permits issued by Corps of Engineers.	Evaluate proposed actions which require federal permits to determine if state water quality standards (as defined in CWA) will be met. Work with applicants, as necessary, to modify projects to meet water quality standards. Participate in the the CEQA process for such actions. Emphasis is on discharges of dredged or fill material to surface waters, particularly wetlands. Participate in Southern California Wetlands Recovery Project.
National Pollutant Discharge Elimination System (NPDES) Program (storm water)	Surface Water	Regulate discharges of pollutants to surface waters in runoff from municipalities, industrial facilities, and construction sites pursuant to the Clean Water Act Section 402(p) and the California Water Code Section 13263 et seq..	Issue, reissue, and revise NPDES permits, including monitoring and reporting requirements, for storm water discharges to surface waters. Oversee compliance with SDRWQCB-issued permits and SWRCB-issued statewide permits for storm water discharges. Compliance oversight includes participation in the CEQA process for proposed new development, monitoring report review, inspections, and enforcement actions.

**TABLE 3
SAN DIEGO REGION PROGRAMS**

1/2/01

PROGRAM	PRIMARY WATER RESOURCE PROTECTED	LEGAL MANDATE	REGIONAL BOARD ACTIVITIES
National Pollutant Discharge Elimination System (NPDES) (waste water)	Surface Water	Regulate discharges of pollutants to surface waters in waste water from sewage treatment plants, industrial facilities, and other sources pursuant to Clean Water Act Section 402 and California Water Code Section 13263 et seq..	Issue, reissue, and revise NPDES permits, including monitoring and reporting requirements, for waste water discharges to surface waters. Oversee compliance with SDRWQCB-issued permits and SWRCB-issued statewide permits for waste water discharges. Compliance oversight includes monitoring report review, inspections, and enforcement actions.
Chapter 15	Surface & Ground Water	Regulate discharges of waste from landfills, surface impoundments, waste piles, and land treatment units pursuant to California Water Code Section 13260 and California Code of Regulations, Title 27, Division 2 and Title 23, Division 3, Chapter 15.	Issue, review, update, and revise waste discharge requirements, including monitoring and reporting requirements, for landfills, waste piles, etc.. Oversee compliance with such waste discharge requirements. Compliance oversight includes monitoring report review, inspections, and enforcement actions. Classify non-hazardous waste. Require development and implementation of facility closure plans.
Non Chapter 15	Surface & Ground Water	Regulate discharges of waste to land from sewage treatment plants, industrial facilities, and other sources and regulate discharges of waste to surface waters from dredging activities and nonpoint sources pursuant to California Water Code Section 13260. Regulate discharges of waste to land from confined animal facilities pursuant to California Code of Regulations, Title 27, Division 2, Chapter 7.	Issue, review, update, and revise waste discharge requirements, including monitoring and reporting requirements, for facilities not subject to NPDES permitting requirements or regulated under the Chapter 15 program. Oversee compliance with such waste discharge requirements. Compliance oversight includes monitoring report review, inspections, and enforcement actions.
Department of Defense	Surface & Ground Water	Oversee investigation and remediation of water resources impacted or threatened by waste discharges from Department of Defense (DoD) facilities pursuant to the DOD / State Water Resources Control Board memorandum of agreement (DSMOA) and cooperative agreement.	Establish cleanup levels for contaminated soil, ground water and bay sediments at DoD facilities.
Underground Tanks	Surface & Ground Water	Regulate underground storage tanks to maintain tank integrity, detect leaks, and remediate contamination from leaking underground storage tanks pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16 and Health and Safety Code, Division 20, Chapters 6.7 & 6.75.	Oversee leaking underground storage tank cleanups and coordinate oversight activities with local agencies.
Above Ground Tanks	Surface & Ground Water	Regulate above ground petroleum storage tanks to maintain tank integrity and establish spill prevention, control, and cleanup plans. pursuant to Health and Safety Code, Division 20, Chapter 6.67.	Inspect above ground tank facilities, review spill prevention plans, and provide regulatory oversight of spill cleanups.
Spills, Leaks, Investigation and Cleanup (SLIC)	Surface & Ground Water	Investigate reports of unauthorized discharges and spills from unregulated facilities pursuant to California Water Code Section 13304.	Provide regulatory oversight of site investigation and cleanup.

**TABLE 4
OPPORTUNITIES FOR SDRWQCB PROGRAM
INTEGRATION AND COORDINATION**

#	PROGRAMS	POTENTIAL FOR INTEGRATION AND COORDINATION
1	Water Quality Assessment (WQA) and all programs that require and/or do receiving water / sediment monitoring	Require and do receiving water / sediment monitoring that produces results useful for purposes of WQA
2	Water Quality Assessment (WQA) and all programs that receive results of and/or do receiving water / sediment monitoring	Obtain and use for purposes of WQA the results of receiving water / sediment monitoring done for other programs
3	Water Quality Assessment (WQA) and Nonpoint Source	Solicit proposals for 205(j) & Prop 13 grant projects useful for purposes of WQA
4	TMDL and NPDES storm water	Issue storm water dischargers 13267 letters &/or enforcement orders requiring submittal of information needed for TMDLs for impairments caused by polluted runoff
5	TMDL and NPDES storm water	Issue storm water dischargers enforcement orders requiring corrective actions in lieu of, or as part of, TMDLs for impairments caused by polluted runoff
6	TMDL and Nonpoint Source	Solicit proposals for 319(h) and Prop 13 grant projects useful for TMDL development and implementation
7	Nonpoint Source and NPDES storm water	Determine which program can most effectively address which polluted runoff issues
8	Nonpoint Source and NPDES storm water	Solicit proposals for 319(h) and Prop 13 grant projects useful for preventing & reducing storm water pollution
9	Nonpoint Source and Non Chapter 15	Review (and, where appropriate, revise) WDR waivers and procedures for ensuring that waiver conditions are met
10	Nonpoint Source and Non Chapter 15	Issue waste discharge requirements for nonpoint sources
11	Water Quality Certification (Wetlands) and Non Chapter 15	Issue waste discharge requirements for activities subject to for water quality certification; incorporate conditions of water quality certification in waste discharge requirements
12	Nonpoint Source, NPDES storm water, and Water Quality Certification	Combine CEQA process participation
13	NPDES storm water and Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
14	NPDES storm water and Non Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
15	NPDES storm water and NPDES waste water	Combine inspection forms and inspections for facilities regulated under both programs
16	NPDES waste water and Non Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
17	Basin Planning and Nonpoint Source	Solicit proposals for 205(j) & Prop 13 grant projects useful for Basin Planning
18	Basin Planning and NPDES waste water	Identify needed Basin Plan changes based on permitting process experience
19	Basin Planning and NPDES storm water	Identify needed Basin Plan changes based on permitting process experience
20	Basin Planning and Chapter 15	Identify needed Basin Plan changes based on permitting process experience
21	Basin Planning and Non Chapter 15	Identify needed Basin Plan changes based on permitting process experience
22	Bay Protection and Non Chapter 15	Review / revise WDRs for discharges causing / contributing to toxic hot spots and sites of concern
23	Bay Protection and Non Chapter 15	Make sure WDRs are issued for all dredging projects at toxic hot spots
24	Bay Protection and NPDES waste water	Review / revise permits for discharges causing / contributing to toxic hot spots and sites of concern
25	Bay Protection and NPDES storm water	Review / revise permits for discharges causing / contributing to toxic hot spots and sites of concern
26	Bay Protection and TMDL	Determine if / when BPTCP toxic hot spots and sites of concern should be removed from 303(d) list
27	Bay Protection, Compliance Assurance, Non Chapter 15, NPDES waste water, NPDES storm water (& others??)	Determine if / when sites should be removed from BPTCP lists of toxic hot spots and sites of concern

**TABLE 5
SAN DIEGO REGION 205(j) GRANTS**

1/2/01

PROJECT TITLE	PROJECT OBJECTIVE	CONTRACTOR	GRANT AMOUNT	DURATION	STATUS	RB STAFF CONTACT	WATERSHED MANAGEMENT AREA
Aliso Creek Water Quality Enhancement	Develop comprehensive plan to establish goals and implement strategies for protection of beneficial uses of the watershed	County of Orange, Environmental Resources Division	\$113,932	October 1996 - June 1999	Complete??	Paul Richter	San Juan WMA
Guajome Lake Project	Document existing water quality & explore alternative pollution control & restoration techniques for Guajome Lake	San Diego County Dept. of Parks and Recreation	\$90,000	June 1992 - June 1996	Complete	Greig Peters	San Luis Rey River WMA
San Luis Rey River Water Quality Assessment	Develop management policies based on a review of existing data and new field studies of sediment and wq	San Diego County Dept. of Parks and Recreation	\$95,000	June 1993 - December 1997	Complete	Greig Peters	San Luis Rey River WMA
Loma Alta Creek Watershed Management and Enhancement Plan	Develop a comprehensive watershed management and enhancement plan, with emphasis on nonpoint source pollution	City of Oceanside	\$75,000	(to be determined)	Ongoing	David Gibson & Chris Means	Carlsbad WMA
Buena Vista Lagoon Watershed Study	Develop recommendations to mitigate sedimentation in Buena Vista Lagoon	California State Coastal Conservancy	\$52,500	May 1983 - September 1988	Complete	Greig Peters	Carlsbad WMA
San Elijo Lagoon Water Quality Study	Characterize microbial water quality of San Elijo Lagoon to allow better evaluation of public health risk to bathers.	San Diego County Dept. of Parks and Recreation	\$82,500	April 1992 - December 1997	Complete	Greig Peters	Carlsbad WMA
Watershed Management Plan for Carlsbad HU	Develop a comprehensive watershed management plan to protect water quality, with emphasis on coliform and sediment	Resource Conservation District of Greater San Diego County	\$110,000	July 1999 - June 2002	Ongoing	David Gibson & Chris Means	Carlsbad WMA
Lindo Lake Project	Evaluate lake rehabilitation alternatives and develop a restoration plan to improve wq for beneficial uses	San Diego County Dept. of Parks and Recreation	\$75,000	April 1994 - June 1998	Complete	Greig Peters	San Diego River WMA

**TABLE 5
SAN DIEGO REGION 205(j) GRANTS**

1/2/01

PROJECT TITLE	PROJECT OBJECTIVE	CONTRACTOR	GRANT AMOUNT	DURATION	STATUS	RB STAFF CONTACT	WATERSHED MANAGEMENT AREA
Southern California Wetlands Freshwater Release Study	Develop recommendations to use treated wastewater in ways that benefit habitats in the Tijuana and San Diego River Estuaries	San Diego Association of Governments	\$69,000	May 1983 - September 1988	Complete	Greig Peters	San Diego River WMA & Tijuana River WMA
San Diego Bay Cleanup Project	Characterize levels of selected trace elements and alpha and beta radiation at sites throughout San Diego Bay	San Diego Association of Governments	\$93,750	October 1988 - December 1992	Complete	Pete Michael	San Diego Bay WMA
San Diego Bay Waste Load Model	Estimate loading of copper and PAH to SD Bay from point and nonpoint sources	San Diego Bay Panel	\$135,000	June 1995 - December 1999	Complete	Art Coe	San Diego Bay WMA
San Diego Bay / Sweetwater Project	Develop a long-term strategy to preserve and protect the source waters in the Sweetwater watershed	Sweetwater Authority	\$85,000	July 1997 - June 2000	Complete??	Greig Peters	San Diego Bay WMA
San Diego Bay TMDL Development	Determine constituents that cause toxicity in SD Bay and identify pollutant sources	Southern California Coastal Water Research Project	\$110,000	July 1999 - June 2002	Ongoing	Kristin Schwall	San Diego Bay WMA
POTW Ocean Discharges Study	Review and analyze data and monitoring programs for six POTW ocean outfalls in the San Diego region	SDRWQCB	\$90,000	September 1985 - December 1991	Complete	Bruce Posthumus	various WMAs
Southern California Coastal Lagoon Nutrients Study	Determine the loading of nutrients that could be accommodated by coastal lagoons without causing algal blooms	San Diego Association of Governments	\$60,000	September 1988 - December 1991	Complete	Greig Peters	various WMAs
Water Quality Standards / Policies Update	Update San Diego region water quality standards to make the Basin Plan more complete and useful	SDRWQCB	\$65,000	September 1985 - December 1991	Complete	David Barker	all WMAs
			TOTAL: \$1,401,682		# COMPLETE: 13 # ONGOING: 3		

**TABLE 6
SAN DIEGO REGION 319(h) GRANTS**

1/2/01

PROJECT TITLE	PROJECT OBJECTIVE	CONTRACTOR	GRANT AMOUNT	DURATION	STATUS	RB STAFF CONTRACT MANAGER	WATERSHED MANAGEMENT AREA
Warm Springs Creek Watershed Project	Develop and implement policies and practices to prevent problems resulting from increased runoff, erosion, and sedimentation associated with urban development	Elsinore-Murieta-Anza Resource Conservation District	\$82,853 319(h) grant 4-099-259-0	April 1, 1995 - March 26, 1999	Complete	Greig Peters	Santa Margarita River WMA
Willow Glen Basin Nonpoint Source Nitrate Reduction Program	Actively involve the community in understanding and implementing measures necessary to reduce nutrient loading into Rainbow Creek from Willow Glen Basin	Mission Resource Conservation District	\$11,109 319(h) grant 7-085-259-0	March 16, 1998 - Dec. 12, 1999	Complete	Linda Parady	Santa Margarita River WMA
Santa Margarita Home to Ocean (aka SM H:O) - A Citizen's Water Quality Monitoring Program	Implement a pollution prevention education and outreach and voluntary water quality monitoring program	Mission Resource Conservation District	\$54,302 319(h) grant # to be determined	to be determined	Contract pending	to be determined	Santa Margarita River WMA
CREEK: Creek Restoration and Ecology for Kids	Raise public awareness of pollution issues and thereby improve water quality in Rose Creek and its watershed; includes creek restoration efforts	The Nature School	\$50,000 319(h) grant 8-124-259-1	April 15, 1999 - April 30, 2002	Ongoing	Linda Parady	Penasquitos / Mission Bay WMA
STAR: Simple Technology Against Runoff	Demonstrate the use of simplified catchment basin and weir design to augment wetland function in mitigating NPS pollution discharged into waterways during dry weather	The Nature School	\$50,000 319(h) grant # to be determined	to be determined	Contract pending	to be determined	Penasquitos / Mission Bay WMA
Famosa Slough Treatment Wetlands	Reduce urban pollutants entering Famosa Slough through a combination of public education and construction / operation of a constructed treatment marsh	City of San Diego / Friends of Famosa Slough	\$126,000 319(h) grant 7-045-259-0	Oct. 30, 1997 - May 1, 2000	Ongoing?? Contractor wishes to extend completion date	Greig Peters	San Diego River WMA

**TABLE 6
SAN DIEGO REGION 319(h) GRANTS**

1/2/01

PROJECT TITLE	PROJECT OBJECTIVE	CONTRACTOR	GRANT AMOUNT	DURATION	STATUS	RB STAFF CONTRACT MANAGER	WATERSHED MANAGEMENT AREA
Chollas Creek Watershed Protection Project	Develop and implement a school-based watershed protection program for the Chollas Creek Watershed	Environmental Health Coalition	\$77,544 319(h) grant 1-127-259-0	July 1, 1991 - Sept. 15, 1992	Complete	Greig Peters	San Diego Bay WMA (Pueblo San Diego HU)
Chollas Creek Watershed Protection Project	Expand on the school-based watershed protection program developed under 319(h) grant 1-127-259-0	Environmental Health Coalition	\$11,771 319(h) grant 2-123-259-0	Nov. 1, 1992 - July 31, 1993	Complete	Greig Peters	San Diego Bay WMA (Pueblo San Diego HU)
Student to Student: Environmental Education to Protect the Watershed	Create and conduct a proactive educational program that results in reduced loadings of pollutants to San Diego Bay	Environmental Health Coalition	\$76,270 319(h) grant 8-072-259-0	May 1, 1996 - June 30, 1997	Complete	Linda Parady	San Diego Bay WMA (Pueblo San Diego HU)
Citizen Watershed Monitoring Program	Develop and implement a citizen monitoring program for the Seventh St. Channel / Paleta Creek Watershed	San Diego BayKeeper	\$31,425 319(h) grant # to be determined	Dec. 1, 2000 - Feb. 5, 2002	Contract pending	Linda Parady	San Diego Bay WMA (Pueblo San Diego HU)
Sweetwater Watershed Summit - Students Solving Water Quality Problems	Improve water quality in the Sweetwater River and watershed through student and citizen involvement	Resource Conservation District of Greater San Diego County	\$63,246 319(h) grant 5-137-259-1	Nov. 13, 1998 - Oct. 31, 2001	Ongoing; contract amendment in progress	Linda Parady	San Diego Bay WMA (Sweetwater HU)
Roberts Ranch Watershed Restoration Project	Improve soil stability, protect wetlands and improve water quality through the implementation of BMPs in the large erosion gullies caused by freeway runoff	United States Forest Service	\$27,000 319(h) grant 9-130-259-0	April 15, 2000 - June 30, 2003	Ongoing	Linda Parady	San Diego Bay WMA (Sweetwater HU)
Otay Valley Regional Park Public Education Project	Produce and use two videos to educate residents about the importance of Otay River resources and the benefits of establishing an open space corridor in the river valley	County of San Diego Department of Parks and Recreation	\$24,000 319(h) grant 7-086-259-1	Mar. 15, 1998 - May 30, 2001	Ongoing	Linda Parady	San Diego Bay WMA (Otay HU)

**TABLE 6
SAN DIEGO REGION 319(h) GRANTS**

1/2/01

PROJECT TITLE	PROJECT OBJECTIVE	CONTRACTOR	GRANT AMOUNT	DURATION	STATUS	RB STAFF CONTRACT MANAGER	WATERSHED MANAGEMENT AREA
Assessing Effects of Various BMPs for Underwater Hull Cleaning	Assess the effectiveness of various hull cleaning BMPs currently in use	Southern California Coastal Water Research Project	\$42,000 319(h) grant # to be determined	(to be determined)	Contract pending	Pete Michael	San Diego Bay WMA (also applicable to other harbors)
Nontoxic Recreational Boat Hull Paint Demonstration for San Diego Bay	Document performance of nontoxic hull paints during field demonstration; present results in an education / outreach program; evaluate paint performance and the reaction of boaters and boating industry to the results and the education / outreach program	University of California Cooperative Extension / Sea Grant Extension Program	\$129,283 319(h) grant # to be determined	(to be determined)	Contract pending	Pete Michael	San Diego Bay WMA (also applicable to other harbors)
			TOTAL: \$856,803		# COMPLETE: 5 # ONGOING: 5 # CONTRACT PENDING: 5		

SDRWQCB TARGETED PROJECTS FOR PLANNING, WATERSHED PROTECTION, AND NONPOINT SOURCE CONTROL GRANTS (205(j), 319(h), AND PROPOSITION 13) (preliminary list)

GRANT TYPE	#	WATERSHED MANAGEMENT AREA	PROJECT DESCRIPTION
205(j) (Planning) & Prop 13 (Watershed Protection & Coastal Nonpoint Source Program)	1	Regionwide	Develop action plans and strategies for protection, restoration, recovery, enhancement, and/or management of watersheds, wetlands, lagoons, or other waters (i.e., watershed management plans or other Watershed Restoration Action Strategies (WRASs))
	2	Regionwide	Develop strategy / plan for monitoring and assessment of water quality and beneficial use conditions regionwide (including bioassessment)
	3	Regionwide	Develop strategies / plans for monitoring and assessment (including bioassessment) of water quality and beneficial use conditions in individual watersheds and water bodies
	4	Regionwide	Develop comprehensive capability for monitoring, collecting, and analyzing ambient water quality, including monitoring technology that can be entered into a statewide or regional information base with standardized protocols and sampling, collection, storage and retrieval procedures
	5	Regionwide	Conduct monitoring and assessment (including bioassessment) of water quality and beneficial use conditions
	6	Regionwide	Develop a geographic information system (GIS) to track and identify water quality and beneficial use conditions and problems; habitat conditions, loss, and degradation
	7	Regionwide	Develop plans and strategies for pollution prevention (in contrast to pollution control)
	8	San Diego Bay WMA	Conduct a source analysis for dissolved copper in Shelter Island Yacht Basin TMDL site in San Diego Bay.
	9	San Diego Bay WMA	Conduct a toxicity identification evaluation (TIE) for the Seventh Street Channel / Paleta Creek Watershed TMDL site in San Diego Bay.
	10	San Diego Bay WMA	Identify pollutant sources and allocate pollutant loads for the Seventh Street Channel / Paleta Creek Watershed TMDL site in San Diego Bay.
	11	San Diego Bay WMA	Conduct a toxicity identification evaluation (TIE) for the Naval Station TMDL site in San Diego Bay.
	12	San Diego Bay WMA	Identify pollutant sources and allocate pollutant loads for the Naval Station TMDL site in San Diego Bay.
	13	San Diego Bay WMA	Conduct a toxicity identification evaluation (TIE) for the Grape Street TMDL site in San Diego Bay.
	14	San Diego Bay WMA	Identify pollutant sources and allocate pollutant loads for the Grape Street TMDL site in San Diego Bay.

SDRWQCB TARGETED PROJECTS FOR PLANNING, WATERSHED PROTECTION, AND NONPOINT SOURCE CONTROL GRANTS (205(j), 319(h), AND PROPOSITION 13) (preliminary list)

GRANT TYPE	#	WATERSHED MANAGEMENT AREA	PROJECT DESCRIPTION
319(h) (Nonpoint Source) & Prop 13 (Watershed Protection, Nonpoint Source & Coastal Nonpoint Source Programs)	15	Regionwide	Implement measures to prevent, correct, or reduce water quality / beneficial use problems and threats characterized in Tables 8 thru 11 and NPS-1 in "Watershed Management Approach for the San Diego Region" (aka WMI Chapter) by addressing the sources and causes of those problems and threats
	16	Regionwide	Implement watershed / nonpoint source pollution education, outreach, awareness, and training activities
	17	Regionwide	Implement volunteer citizen monitoring
	18	Regionwide	Implement measures to protect, restore, and maintain WARM, COLD, SAL, EST, MAR, WILD, RARE, and BIOL beneficial uses
	19	Regionwide	Implement measures to eradicate, control, and/or prevent introduction of invasive non-native riparian species
	20	Regionwide	Implement measures to eradicate, control, and/or prevent introduction of invasive non-native freshwater species
	21	Regionwide	Implement measures to eradicate, control, and/or prevent introduction of invasive non-native estuarine and marine species
	22	Regionwide	Implement measures to protect, restore, and maintain natural wetlands (particularly saltwater and estuarine wetlands) and native wetland vegetation, habitat, and wildlife corridors
	23	Regionwide	Implement measures to reduce fragmentation and/or restore natural tidal exchange in coastal lagoons / wetlands
	24	Regionwide	Implement measures to reduce displacement / loss of estuarine and saltwater wetlands and wetland vegetation and habitat resulting from higher than natural freshwater inflows
	25	Regionwide	Implement measures to protect, restore, and maintain native riparian vegetation, habitat, and wildlife corridors
	26	Regionwide	Implement measures to protect, restore, and maintain habitat for native species (particularly listed species)
	27	Regionwide	Implement restoration of wetland and riparian habitat and natural water purification functions by "daylighting" creeks and/or removal of concrete and other hardscaping from creeks and re-establishment of native wetland and riparian vegetation.
	28	Regionwide	Implement measures to minimize impacts to riparian, wetland, and aquatic habitats from flood control measures
29	Regionwide	Implement pollution prevention (in contrast to pollution control) measures	

SDRWQCB TARGETED PROJECTS FOR PLANNING, WATERSHED PROTECTION, AND NONPOINT SOURCE CONTROL GRANTS (205(j), 319(h), AND PROPOSITION 13) (preliminary list)

GRANT TYPE	#	WATERSHED MANAGEMENT AREA	PROJECT DESCRIPTION
319(h) (Nonpoint Source) & Prop 13 (Watershed Protection, Nonpoint Source & Coastal Nonpoint Source Programs)	30	Regionwide	Implement measures to reduce discharges of biocides (chlorine, pesticides, herbicides, etc., particularly diazinon and chlorpyrifos) to waters of the state
	31	Regionwide	Implement measures to prevent and control erosion and sedimentation
	32	Regionwide	Implement measures to reduce anthropogenic nutrient discharges to waters of the state
	33	Regionwide	Implement measures to prevent anthropogenic animal waste from entering waters of the state
	34	Regionwide	Implement measures to reduce levels of human pathogens in waters of the state to natural background levels
	35	Regionwide	Implement greenhouse and/or nursery irrigation return water recycling
	36	Regionwide	Implement conversion of a grove from sprinkler to drip
	37	Regionwide	Implement measures to reduce discharges of pollutants (including trash) in urban runoff
	38	Regionwide	Implement measures to reduce discharges of pollutants from marinas and/or vessels to waters of the state
39	Regionwide	Implement measures to reduce discharges of petroleum and petroleum byproducts and additives to waters of the state	

TABLE 7A
SAN DIEGO REGION ACTION PLANS AND STRATEGIES FOR
PROTECTION, RESTORATION, RECOVERY, ENHANCEMENT, AND MANAGEMENT OF
WATERSHEDS, WETLANDS, LAGOONS, AND OTHER WATERS
(preliminary list)

1/2/01

#	PLAN OR STRATEGY	FUNDING SOURCE	ORGANIZATIONS	STATUS	BASIN
	San Juan WMA				
1	Aliso Creek Water Quality Enhancement	205j	County of Orange	completed 2000	1.13
2	Aliso Creek Watershed Feasibility Study	Co Or / ACOE	County of Orange / ACOE	ongoing	1.13
3	San Juan Creek Watershed Feasibility Study	Co Or / ACOE	County of Orange / ACOE	ongoing	1.2
4	San Juan Creek / San Mateo Creek Watershed SAMP??	??	ACOE??	ongoing	1.2
5	San Mateo Creek / San Onofre Creek Native Fish Restoration	Prop 12	State Coastal Conservancy	ongoing	1.40, 1.51
	Santa Margarita WMA				
6	Santa Margarita River Watershed Enhancement Plan	SCC / USEPA	State Coastal Conservancy (SCC) / US Environmental Protection Agency (USEPA)	completed 1993??	2
7	Santa Margarita Watershed:, Today's Management Framework: Participants in Profile"	National Park Service	National Park Service / The Nature Conservancy	completed 1995??	2
	San Luis Rey WMA				
8	San Luis Rey River Water Quality Assessment	205j	County of San Diego Dept of Parks & Recreation	completed 1997	3
9	San Luis Rey Watershed Management Guidelines 2000	SCC / USEPA	Mission RCD / San Luis Rey Watershed Council	completed 2000	3
10	Guajome Lake Project	205j	County of San Diego Dept of Parks & Recreation	completed 1996	3.??
	Carlsbad WMA				
11	Loma Alta Creek Watershed Management and Enhancement Plan	205j	City of Oceanside	ongoing	4.1
12	Buena Vista Lagoon Watershed Study	205j	State Coastal Conservancy	completed 1988	4.2
13	Buena Vista Lagoon Management Plan	??	Buena Vista Lagoon Foundation??	ongoing	4.2
14	San Elijo Lagoon Management Plan	??	San Elijo Lagoon Conservancy	completed ??	4.61
15	Watershed Management Plan for Carlsbad HU	205j	RCD of Greater SD County / Carlsbad Watershed Network	ongoing	4

TABLE 7A
SAN DIEGO REGION ACTION PLANS AND STRATEGIES FOR
PROTECTION, RESTORATION, RECOVERY, ENHANCEMENT, AND MANAGEMENT OF
WATERSHEDS, WETLANDS, LAGOONS, AND OTHER WATERS
(preliminary list)

1/2/01

#	PLAN OR STRATEGY	FUNDING SOURCE	ORGANIZATIONS	STATUS	BASIN
	San Dieguito WMA				
	??				
	Penasquitos / Mission Bay WMA				
16	Los Penasquitos Lagoon Enhancement Plan	??	Los Penasquitos Lagoon Foundation	completed ~1985	6.1 & 6.2
17	Los Penasquitos Lagoon Enhancement Plan	??	Los Penasquitos Lagoon Foundation	update of ~1985 plan ongoing	6.1 & 6.2
18	<i>Mission Bay Park Master Plan??</i>	??	City of San Diego	??	6.3, 6.4, 6.5
	San Diego River WMA				
19	Lindo Lake Project	205j	County of San Diego Dept of Parks & Recreation	completed 1998	??
20	Famosa Slough Enhancement Plan	??	City of San Diego / Friends of Famosa Slough	completed 1994	7.11
	San Diego Bay WMA				
21	San Diego Bay Preliminary Watershed Management Strategies	SDUPD	San Diego Unified Port District	completed 2000	8, 9 & 10
22	Five Year Action Plan for a Clean San Diego Bay	SDUPD	San Diego Unified Port District	updated 1995	8, 9 & 10
23	Comprehensive Management Plan for San Diego Bay	legislature	SD Bay Interagency Water Quality Panel	completed 1998	8, 9 & 10
24	San Diego Bay / Sweetwater Project	205j	Sweetwater Authority	completed 2000??	9
	Tijuana WMA				
25	Goat Canyon / Canon de los Laureles Enhancement and Sediment Management Plan	USEPA	State Coastal Conservancy / Southwest Wetlands Interpretive Association	completed ??	11.11

TABLE 8
WATER QUALITY / BENEFICIAL USE PROBLEMS AND THREATS

	WATER QUALITY / BENEFICIAL USE PROBLEMS AND THREATS	TYPICAL SOURCES / CAUSES
Surface Water		
1	Trash	Littering; dumping; inadequately covered trash trucks
2	Increased salinity	Irrigation; imported water; brine discharges; dams / water diversions
3	Reduced salinity	Hydrology changes resulting from conversion of pervious to impervious surfaces, use of imported water, and wastewater discharges upstream of naturally brackish, estuarine, or saltwater wetlands
4	Sedimentation	Erosion of cleared land, disturbed soils, stream beds, flood plains, etc.
5	Stream bed / flood plain instability (<i>downtcutting, erosion, flood plain dessication, etc.</i>)	Hydrology changes resulting from conversion of pervious to impervious surfaces; sand & gravel extraction; dams
6	Human pathogens	Sewage spills & leaks; unsewered sanitary waste; vessel discharges of sewage & gray water; septic systems; animal waste
7	Nutrients / eutrophication	Fertilizer and green waste from nurseries, golf courses, agriculture, landscaping, gardening, etc.; animal waste; septic systems; sewage spills & leaks; unsewered sanitary waste; treated sewage; coastal lagoon fragmentation; loss of riparian canopy
8	Non-native invasive species	<u>Marine</u> : vessel ballast water discharges; aquaria <u>Riparian</u> : historical introductions; nurseries; landscaping; erosion control plantings; soil disturbance <u>Freshwater</u> : historical introductions; stocking; transplants; reservoir and pond overflows; aquaria
9	Habitat degradation and loss	Streambed / floodplain instability; physical modification (e.g. dredging, wetland / tideland filling, flood plain development, stream bed channelization, channel lining, dams, etc.); non-native invasive species; decreased salinity; hydrology changes
10	Benthic community degradation	Nutrients; organic enrichment; toxic substances
11	Metals (<i>copper, lead, zinc, etc.</i>)	Vessel hull paint; vessel maintenance and repair; vehicles; algae control
12	Pesticides (<i>including herbicides</i>)	Nurseries; golf courses; agriculture; landscaping/gardening; termite, ant & flea control
13	PCBs (<i>polychlorinated biphenyls</i>)	Industrial activities
14	PAHs (<i>polynuclear aromatic hydrocarbons</i>)	Creosote-treated pilings; groundwater extraction discharges; combustion
15	Petroleum	Vessel discharges; spills and leaks; tank farms; underground tank leaks; service stations; vehicles; groundwater extraction discharges; waste oil disposal
16	Other toxic substances	Military, industrial, and urban activities; golf courses; groundwater extraction discharges
17	Toxicity	Toxic substances (metals, pesticides, chlorine, PCBs, PAHs, etc.)
18	Reduced natural light penetration	Cooling water intake and discharge
19	Elevated temperature	Cooling water discharges; loss of riparian canopy
20	Lowered dissolved oxygen	Eutrophication; elevated temperature
21	Increased wastewater volume	Population increase
22	Beach erosion	Sand & gravel extraction; dams, coastal structures (jetties, groins, etc.); coastal lagoon fragmentation
Ground Water		
1	Increased salinity	Irrigation; imported water; animal waste; groundwater overdraft
2	Nitrates	Fertilizer; animal waste; septic systems
3	Petroleum (<i>gasoline, diesel, fuel oil</i>)	Underground tank leaks
4	MTBE (<i>methyl tertiary butyl ether</i>)	Underground tank leaks
5	Solvents (<i>TCE, PCE, DCE</i>)	Dry cleaners; service stations; plating shops
6	Other toxic substances	Military, industrial & urban activities

**TABLE 9
WATER QUALITY / BENEFICIAL USE STRESSORS**

WATER TYPE AFFECTED	STRESSORS	TYPICAL PROBLEMS / THREATS / EFFECTS	TYPICALLY AFFECTED BENEFICIAL USES	TYPICAL SOURCES / CAUSES	TYPICAL PATHWAYS
Surface water	Physical modifications	Habitat degradation & loss; stream bed downcutting & erosion; flood plain dessication, etc; elevated temperature	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Dredging; filling; channelization; stream bed and bank lining; clearing & development; hydrology changes resulting from conversion of pervious to impervious surfaces; sand & gravel extraction; dams; coastal lagoon fragmentation; vegetation removal	(Direct & indirect)
Surface water	Invasive non-native marine species	Reduced diversity & abundance of native species; habitat degradation & loss	EST, MAR, WILD, RARE, COMM, BIOL, NAV, IND, REC-1, SHELL	Vessels; aquaria	Ballast water discharges; release of aquaria specimens and dumping of aquaria contents; transport via anchoring, fishing, and water sports equipment; self-propagation
Surface water	Invasive non-native riparian species	Reduced diversity & abundance of native species; habitat degradation & loss	EST, WILD, RARE, WARM, COLD, COMM, BIOL	Historical introductions; nurseries; landscaping; erosion control plantings	Soil disturbance; dumping; self-propagation
Surface water	Invasive non-native freshwater species	Reduced diversity & abundance of native species; habitat degradation & loss	EST, WILD, RARE, WARM, COLD, COMM, BIOL	Historical introductions; stocking; transplants, reservoir & pond overflows; aquaria	Release of aquaria specimens and dumping of aquaria contents; self-propagation
Surface water	Sediment	Sedimentation	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Erosion (of cleared land, disturbed soils, stream beds, flood plains, etc.)	Runoff; reduced tidal exchange due to lagoon fragmentation
Surface water	Suspended material	Turbidity (reduced natural light penetration); aesthetics	REC-2, EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Power plants; erosion (of cleared land, disturbed soils, stream beds, flood plains, etc.); dredge & fill activities	Cooling water intake & discharge; runoff; tidal movement
Surface water	Nutrients	Eutrophication; reduced dissolved oxygen; organic enrichment; benthic community degradation	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Fertilizer & green waste from nurseries, golf courses, agriculture, landscaping, gardening, etc.; human & animal waste	Runoff; septic systems; sewage spills & leaks; unsewered sanitary waste; treated sewage discharges; dumping; reduced tidal exchange due to lagoon fragmentation; loss of riparian canopy

**TABLE 9
WATER QUALITY / BENEFICIAL USE STRESSORS**

1/2/01

WATER TYPE AFFECTED	STRESSORS	TYPICAL PROBLEMS / THREATS / EFFECTS	TYPICALLY AFFECTED BENEFICIAL USES	TYPICAL SOURCES / CAUSES	TYPICAL PATHWAYS
Surface water	Organic material	Organic enrichment; reduced dissolved oxygen; eutrophication; benthic community degradation	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Fertilizer & green waste from nurseries, golf courses, agriculture, landscaping, gardening, etc.; human & animal waste	Runoff; septic systems; sewage spills & leaks; unsewered sanitary waste; treated sewage discharges; dumping; reduced tidal exchange due to lagoon fragmentation; loss of riparian canopy
Surface water	Human pathogens	Human health	REC-1, MUN, SHELL	Human & animal waste	Runoff; septic systems; sewage spills & leaks; unsewered sanitary waste; treated sewage discharges; vessel discharges of sewage & gray water; unsewered sanitary waste
Surface water	Trash	Aesthetics; entanglement of & ingestion by wildlife; clogging of water intakes on vessels	REC-2, EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL, NAV	Littering; dumping; spills; inadequately covered trash trucks	Runoff; wind
Surface water	Pesticides (<i>insecticides, herbicides, rodenticides, fungicides, etc.</i>)	Toxicity; human health	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL, SHELL	Nurseries; golf courses; agriculture; landscaping; gardening; ant, termite & flea control	Runoff; aerial deposition
Surface water	Metals (<i>copper, lead, zinc, etc.</i>)	Toxicity; human health	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL, SHELL	Vessel hull paint; vehicles; algae control	Runoff; leaching; vessel maintenance and repair; underwater hull cleaning and paint removal; aerial deposition
Surface water	PCBs (<i>polychlorinated biphenyls</i>)	Toxicity; human health	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL; SHELL	Industrial activities	Runoff; spills & leaks
Surface water	PAHs (<i>polynuclear aromatic hydrocarbons</i>)	Toxicity; human health	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL, SHELL	Combustion; creosote-treated pilings	Runoff; leaching; aerial deposition

**TABLE 9
WATER QUALITY / BENEFICIAL USE STRESSORS**

WATER TYPE AFFECTED	STRESSORS	TYPICAL PROBLEMS / THREATS / EFFECTS	TYPICALLY AFFECTED BENEFICIAL USES	TYPICAL SOURCES / CAUSES	TYPICAL PATHWAYS
Surface water	Petroleum (<i>gasoline, diesel, fuel oil</i>)	Toxicity; aesthetics	REC-2, EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Vehicles; vessels; storage tanks; transfer operations; waste oil disposal	Runoff; spills & leaks; incompletely burned fuel in exhaust; groundwater extraction discharges
Surface water	MTBE (<i>methyl tertiary butyl ether</i>)	Taste; odor; human health; toxicity	MUN, EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Storage tanks; vessels	Spills & leaks; incompletely burned fuel in exhaust; runoff
Surface water	Chlorine	Toxicity	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Power plants; potable water; swimming pools; treated sanitary wastewater	Cooling water discharges; water tank & pipeline dewatering; pool draining
Surface water	Other toxic substances	Toxicity, human health	MUN, EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Military, industrial & urban activities	Runoff; spills & leaks; groundwater extraction discharges
Surface water	Heat	Elevated temperature; reduced dissolved oxygen	EST, MAR, WILD, RARE, WARM, COLD, COMM, BIOL	Power plants; loss of riparian canopy	Cooling water discharges; development / construction
Surface water	Increased salinity	Human health; aesthetics; plant growth	MUN, AGR	Irrigation; imported water; water reuse; human & animal waste; brine	Runoff
Surface water	Reduced salinity	Reduced diversity & abundance of native species; habitat degradation & loss	EST, MAR, WILD, RARE, BIOL, COMM, SHELL	Hydrology changes resulting from conversion of pervious to impervious surfaces and use of imported water; discharges of runoff, unsewered waste, spills & leaks, and wastewater upstream of naturally brackish, estuarine, or saltwater wetlands	Runoff; spills & leaks; wastewater discharges
Ground water	Salts	Human health; aesthetics; plant growth	MUN, AGR	Irrigation; imported water; water reuse; human & animal waste; groundwater overdraft	Evapotranspiration; percolation; saltwater intrusion
Ground water	Nitrates	Human health	MUN	Nurseries, golf courses, agriculture, landscaping, gardening, etc. (fertilizer & green waste); human & animal waste	Irrigation; septic systems
Ground water	Petroleum (<i>gasoline, diesel, fuel oil</i>)	Taste, odor, human health	MUN	Storage tanks	Spills & leaks
Ground water	MTBE (<i>methyl tertiary butyl ether</i>)	Taste, odor, human health	MUN	Storage tanks	Spills & leaks

TABLE 9
WATER QUALITY / BENEFICIAL USE STRESSORS

1/2/01

WATER TYPE AFFECTED	STRESSORS	TYPICAL PROBLEMS / THREATS / EFFECTS	TYPICALLY AFFECTED BENEFICIAL USES	TYPICAL SOURCES / CAUSES	TYPICAL PATHWAYS
Ground water	Solvents (<i>TCE, PCE, DCE</i>)	Taste, odor, human health	MUN	Dry cleaners; service stations; plating shops; other military, industrial & urban activities	Spills & leaks
Ground water	Other toxic substances	Human health	MUN	Military, industrial & urban activities	Spills & leaks

TABLE 10
ACTIVITIES AND SOURCES AFFECTING BENEFICIAL USES

1/2/01

ACTIVITY OR SOURCE	STRESSOR	TYPICAL PATHWAY
construction / development / urbanization	physical modifications - direct	sediment & soil deposition, removal, disturbance & modification / vegetation removal / land clearing / hardscaping / hydrology modification / bathymetry & submerged structure modification / conversion of submerged lands & wetlands to dry land / routing streams into underground conveyances
	physical modifications - indirect (stream bed downcutting & erosion, flood plain dessication, etc.)	hydrology changes (increased runoff volume & flowrate) resulting from conversion of pervious to impervious surfaces
	sediment	erosion / runoff
	turbidity	erosion / runoff
	heat / elevated temperature	removal of riparian canopy
	reduced salinity	hydrology changes resulting from conversion of pervious to impervious surfaces and use of imported water; discharges of runoff, unsewered waste, spills & leaks, and wastewater upstream of naturally brackish, estuarine, or saltwater wetlands
	invasive non-native species (riparian)	soil disturbance & modification; removal of native vegetation
channelization / lining of stream channels and banks	physical modifications - direct	sediment & soil deposition, removal, disturbance & modification / vegetation removal / land clearing / hardscaping / hydrology modification / bathymetry & submerged structure modification / conversion of submerged lands & wetlands to dry land / routing streams into underground conveyances
	heat / elevated temperature	removal of riparian canopy
dredging & filling	physical modifications - direct	sediment & soil deposition, removal, disturbance & modification / vegetation removal / land clearing / hardscaping / hydrology modification / bathymetry & structure modification / conversion of submerged lands & wetlands to dry land
	turbidity	sediment resuspension / water movement (e.g. tidal)
agriculture	physical modifications - direct	vegetation removal / land clearing
	sediment	erosion / runoff
	turbidity	erosion / runoff
	pesticides	spills & leaks / aerial deposition / runoff
	nutrients	fertilizer / animal waste / green waste / runoff
	organic material	fertilizer / animal waste / green waste / runoff
	salt	irrigation / animal waste / runoff
invasive non-native species (riparian)	animal feed	

**TABLE 10
ACTIVITIES AND SOURCES AFFECTING BENEFICIAL USES**

1/2/01

ACTIVITY OR SOURCE	STRESSOR	TYPICAL PATHWAY
nurseries	invasive non-native species (riparian)	dumping / self propagation
	pesticides	spills & leaks / runoff
	nutrients	fertilizer / green waste / runoff
	organic material	fertilizer / green waste / runoff
	salt	irrigation / runoff
gardening / landscaping (incl. golf courses, parks, cemeteries, yards, etc.)	invasive non-native species (riparian)	dumping / self propagation
	pesticides	spills & leaks / runoff
	nutrients	fertilizer / green waste / reclaimed water / runoff
	organic material	fertilizer / green waste / runoff
	salt	irrigation / runoff
animal husbandry / pets	nutrients	animal waste / runoff
	organic material	animal waste / runoff
	human pathogens	animal waste / runoff
	salt	animal waste / runoff
	pesticides	spills & leaks / runoff
	invasive non-native species (marine & freshwater)	release of aquaria specimens; dumping of aquaria contents
	invasive non-native species (riparian)	animal feed
electricity production	chlorine	cooling water discharges
	turbidity	cooling water discharges
	heat / elevated temperature	cooling water discharges
	PAHs	exhaust / aerial deposition / runoff
sewage conveyance, treatment & disposal	nutrients	unsewered waste / spills & leaks / septic tanks / water reuse / runoff / direct discharges
	organic material	unsewered waste / spills & leaks / septic tanks / water reuse / runoff / direct discharges
	human pathogens	unsewered waste / spills & leaks / septic tanks / water reuse / runoff / direct discharges
	increased salinity	brine / unsewered waste / spills & leaks / septic tanks / irrigation with reclaimed water / runoff
	reduced salinity	discharges of unsewered waste, spills & leaks, and wastewater upstream of naturally brackish, estuarine, or saltwater wetlands
	chlorine	spills & leaks / runoff / direct discharges
vehicles	metals	corrosion / brake wear / runoff
	petroleum	spill & leaks / incompletely burned fuel in exhaust / waste oil disposal / runoff
	MTBE	spill & leaks / incompletely burned fuel in exhaust / waste oil disposal / runoff
	PAHs	exhaust / aerial deposition / runoff

**TABLE 10
ACTIVITIES AND SOURCES AFFECTING BENEFICIAL USES**

1/2/01

ACTIVITY OR SOURCE	STRESSOR	TYPICAL PATHWAY
vessels / vessel repair facilities / port & marina facilities	invasive non-native species (marine)	ballast water
	metals	hull paint / sacrificial anodes / leaching / maintenance / repair / runoff
	petroleum	spill & leaks / incompletely burned fuel in exhaust / waste oil disposal
	MTBE	spill & leaks / incompletely burned fuel in exhaust / waste oil disposal
	PAHs	creosote-treated pilings / leaching / exhaust / aerial deposition / runoff
	human pathogens	sewage & gray water
fuel storage tanks	petroleum	spill & leaks / water draw discharges / runoff
	MTBE	spill & leaks / water draw discharges / runoff
water treatment and supply	salt	brine
	chlorine	pipeline & tank dewatering / spills & leaks / runoff
	sediment	pipeline & tank dewatering / erosion / runoff
	turbidity	pipeline & tank dewatering / erosion / runoff
	metals (copper sulfate)	algae control (direct application to reservoirs)
swimming pools / ornamental fountains, pools, ponds, lakes,	chlorine	draining / overflows / runoff
	metals (copper sulfate)	algae control (direct application)
metal structures	metals	corrosion / runoff
military, industrial & urban activities	PCBs	spills & leaks / runoff
	various toxic substances	spills & leaks / runoff
ant, termite & flea control	pesticides	runoff
solid waste disposal	trash / litter / debris	littering / dumping / spills / inadequately covered trash receptacles & trucks / wind / runoff

TABLE 11
LOCATIONS OF WATER QUALITY / BENEFICIAL USE PROBLEMS AND THREATS

	WATER QUALITY / BENEFICIAL USE PROBLEMS AND THREATS	San Juan WMA	Santa Margarita River WMA	San Luis Rey River WMA	Carlsbad WMA	San Dieguito River WMA	Penas- quitos / Mission Bay WMA	San Diego River WMA	San Diego Bay WMA	Tijuana River WMA
Surface Water										
1	Trash	X	X	X	X	X	X	X	X	X
2	Increased salinity								X	
3	Reduced salinity				X		X	X		X
4	Sedimentation		X		X	X	X			X
5	Stream bed / flood plain instability	X							X	
6	Human pathogens	X		X	X	X	X	X	X	X
7	Nutrients / eutrophication	X	X	X	X	X	X	X	X	X
8	Non-native invasive species	X	X	X	X	X	X	X	X	X
9	Habitat degradation and loss	X	X	X	X	X	X	X	X	X
10	Benthic community degradation								X	
11	Metals	X		X			X		X	X
12	Pesticides	X	X						X	X
13	PCBs								X	
14	PAHs								X	
15	Petroleum								X	
16	Other toxic substances								X	X
17	Toxicity								X	
18	Reduced natural light penetration	X								
19	Elevated temperature	X							X	
20	Lowered dissolved oxygen	X	X	X	X	X	X	X	X	X
21	Increased wastewater volume	X	X						X	
22	Beach erosion			X	X	X	X			
Ground Water										
1	Increased salinity	X	X	X	X	X	X	X	X	X
2	Nitrates	X	X	X	X	X	X	X	X	X
3	Petroleum	X	X	X	X	X	X	X	X	X
4	MTBE	X	X	X	X	X	X	X	X	X
5	Solvents	X	X	X	X	X	X	X	X	X
6	Other toxic substances		X							

TABLE 12
SDRWQCB PRIORITIES
(BY PROGRAM)

PROGRAM	PRIORITIES
Basin Planning	Resume an active Basin Plan review and update program
Water Quality Assessment	Identify and prioritize monitoring & assessment needs
	Identify monitoring & assessment conducted by others
	Develop and implement a monitoring & assessment plan
	Increase monitoring & assessment of ambient waters
	Integrate internal and external monitoring data into a GIS
	Increase access to and use of internal and external data (e.g. to evaluate trends in San Diego Bay)
Total Maximum Daily Load (TMDL)	Meet TMDL development commitments
Nonpoint Source	Increase all NPS program elements / establish a viable NPS program
	Increase oversight of planned new development (e.g., CEQA process)
	Increase efforts to prevent introduction of and to control invasive non-native species (especially <i>Caulerpa</i>)
Water Quality Certification (aka Wetlands)	Increase oversight of proposed physical modifications of streams, wetlands, and shorelines (incl. CEQA process)
NPDES (storm water)	Increase oversight of planned new development (e.g., CEQA process)
	Increase oversight of compliance with municipal permits
	Increase oversight of planned new development (e.g., CEQA process)
	Identify watershed locations of all storm water permittees
NPDES (waste water)	Improve compliance monitoring programs (especially receiving water monitoring)
	Increase oversight of compliance with permits
	Establish requirements for Navy facilities
	Establish requirements for marinas
Chapter 15	Meet workplan commitments (WDRs & inspections)
	Increase oversight of historical sites (e.g. old landfills)
	Develop "water quality protection standards" for landfill monitoring
Non Chapter 15	Increase oversight of compliance with WDRs
	Develop and implement a plan for review, reevaluation, and tracking of WDR waivers in coordination with Nonpoint Source Program
Department of Defense	<i>(to be determined)</i>
Underground Tanks	Eliminate workplan backlog (Camp Pendleton)
	Develop MOUs with counties re: lead agency for MTBE
Above Ground Tanks	<i>(to be determined)</i>
SLIC	Integrate SLIC cases into a data base
Multi-program / cross-program	Improve coordination and integration of programs and activities internally and externally
	Increase proactive activities (e.g. pollution prevention and prevention of problems before they occur)
	Increase activities most critical to protecting water quality and beneficial uses, especially to preventing permanent or long term loss or degradation
	Replace bean counting with measures of success more indicative of water quality / beneficial use protection and pollution control / prevention
	Include San Diego Bay in National Estuary Program
	Integrate spill and public complaint response with other SDRWQCB functions
	Increase thoroughness of oversight and enforcement of existing requirements
	Work with water districts to evaluate groundwater use
	Increase office automation / improve information management (e.g. convert from paper to digital)

TABLE NPS-1
SAN DIEGO REGION NONPOINT SOURCE PROBLEMS AND THREATS
BY MANAGEMENT MEASURE CATEGORY
(to be updated; also see Tables 8, 9, 10 & 11)

Water Quality / Beneficial Use Problems and Threats Arranged by Management Measure Category				
PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO- MODIFICATION
<i>San Juan WMA [San Juan HU (1)]</i>				
Stream bed / flood plain instability		X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Pesticides	X	X		
Elevated temperature				X
Lowered dissolved oxygen	X	X		X
<i>Santa Margarita River WMA [Santa Margarita HU (2)]</i>				
Sedimentation	X	X		X
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Pesticides	X	X		
Elevated temperature				X
Lowered dissolved oxygen	X	X		X
<i>San Luis Rey River WMA [San Luis Rey HU (3)]</i>				
Stream bed / flood plain instability		X		X
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Lowered dissolved oxygen	X	X		X

TABLE NPS-1
SAN DIEGO REGION NONPOINT SOURCE PROBLEMS AND THREATS
BY MANAGEMENT MEASURE CATEGORY
(to be updated; also see Tables 8, 9, 10 & 11)

PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO-MODIFICATION
<i>Carlsbad WMA [Carlsbad HU (4)]</i>				
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X
<i>San Dieguito River WMA [San Dieguito HU (5)]</i>				
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X
<i>Penasquitos / Mission Bay WMA [Penasquitos HU (6)]</i>				
Sedimentation	X	X		X
Pathogens		X	X	
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Lowered dissolved oxygen	X	X		X
<i>San Diego River WMA [San Diego HU (7)]</i>				
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X

TABLE NPS-1
SAN DIEGO REGION NONPOINT SOURCE PROBLEMS AND THREATS
BY MANAGEMENT MEASURE CATEGORY
(to be updated; also see Tables 8, 9, 10 & 11)

PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO-MODIFICATION
<i>San Diego Bay WMA [Pueblo San Diego HU (8), Sweetwater River HU (9) & Otay River HU (10)]</i>				
Trash		X	X	
Salinity (increased)		X		
Stream bed / flood plain instability		X		X
Pathogens		X	X	
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Benthic community degradation	X	X	X	
Metals	X	X	X	
Pesticides	X	X		
PCBs		X		
PAHs		X	X	
Petroleum		X	X	
Other Toxic Substances	X	X	X	
Toxicity	X	X	X	
<i>Tijuana River WMA [Tijuana HU (11)]</i>				
Trash		X		
Salinity (decreased)		X		
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Metals	X	X		
Pesticides	X	X		
Other toxic substances	X	X		
Lowered dissolved oxygen	X	X		X

TABLE NPS-2
SDRWQCB
NONPOINT SOURCE PROGRAM SHORT TERM OBJECTIVES
(to be updated)

Objective	GOAL	F	F	F	F	F	Management Measures
		Y	Y	Y	Y	Y	
		0	0	0	0	0	
		0	1	2	3	4	
		/	/	/	/	/	
		0	0	0	0	0	
		1	2	3	4	5	
<i>Watershed Management</i>							
Achieve pollution reduction from nonpoint sources through watershed management efforts in all watersheds of the region.	1 2 3 4	x	x	x	x	x	1(A-G), 3.1, 3.2, 3.3, 3.6, 4.1, 4.2, 4.3, 5.1, 5.3, 5.4, 6(B), 6(C)
<i>Land Use Management Measures</i>							
<i>Urban Areas</i>							
Provide technical assistance and education to local agencies and the public on urban runoff impacts and management measures.	4	x	x	x	x	x	3.6, 5.3(A), 5.4(A)
Require NPS control measures in all new urban development projects as a condition of CWA 401 water quality certification.	2 4	x	x	x	x	x	3.1(C)
Coordinate CWA 401 water quality certification with NPS program efforts to prevent the introduction and spread of non-native invasive vegetation from new development projects and utility maintenance activities.	1 2	x	x	x	x	x	3.1(A)
Promote the restoration of pre-existing wetland functions in existing urban areas to reduce NPS pollution.	2 3 4	x	x	x	x	x	6(B), 3.3, 3.5
Promote the use of engineered vegetated treatment systems and the protection of existing wetland and riparian areas in new urban developments.	2 3 4	x	x	x	x	x	3.1, 3.2, 3.3, 6(A), 6(C)
Target 319(h) and Prop 13 grants to urban projects that will utilize innovative NPS control measures, including wetland creation or restoration.	2 3	x	x	x	x	x	3.1(A), 3.1(B), 3.3, 6(B), 6(C)
Implement watershed monitoring efforts to evaluate effectiveness of management practices.	1			x	x	x	3.6

TABLE NPS-2
SDRWQCB
NONPOINT SOURCE PROGRAM SHORT TERM OBJECTIVES
(to be updated)

Objective	GOAL	F	F	F	F	F	Management Measures
		Y	Y	Y	Y	Y	
		0	0	0	0	0	
		0	1	2	3	4	
		/	/	/	/	/	
		0	0	0	0	0	
		1	2	3	4	5	
Agriculture							
Coordinate erosion prevention/control with RCDs	2	x	x	x	x	x	1(A), 1(G), 3.2(A)
Provide technical assistance and education to the public and managers of nurseries, groves, aquaculture, and equestrian facilities.	1 4	x	x	x	x	x	1(G)
Participate in monitoring of BMP implementation and water quality impacts relating to efforts to suppress non-native red fire ants	1 2 4	x	x				1(D)
Implement watershed monitoring efforts to evaluate effectiveness of BMP's at agricultural facilities (e.g., nurseries, green houses, confined animal facilities, groves, and row crops).	1	x	x	x	x	x	1(G)
Develop and implement consistent regional approach to horse manure management.	2 3 4	x	x				1(B), 1(G)
Develop and implement BMPs for new and existing golf courses to reduce pollutant generation and reduce NPS impacts through incorporation of wetland/riparian vegetative buffers	1 2 3 4	x	x	x	x	x	1(C), 1(D), 6(C)
Develop and implement regional or watershed-specific approach to control runoff from commercial nurseries.	1 2 3 4		x	x			1(C), 1(F), 1(G)
Encourage efforts to prevent the establishment and spread of non-native invasive plant and animals that would otherwise occur through agricultural land clearing and stock pond development.	2 4				x	x	1(G)
Marinas and Recreational Boating							
Determine baseline water quality conditions at all marinas to allow assessment of BMP effectiveness.	1	x	x	x			4.1(A)
Encourage efforts to prevent the establishment and spread of non-native invasive marine species from vessel ballast water discharges	2 4	x	x				4.2(G), 4.3
Assess and require adequate waste (sewage and household toxic waste) handling facilities	1		x	x			4.1(G), 4.2(F)
Implement educational measures to reduce nonpoint source pollution from boaters	3 4		x	x			4.3(A)
Hydromodification							
Coordinate regulatory process for hydromodification permits with NPS program	2 3	x	x	x	x	x	3.1(A,B,C), 5.4(A)

TABLE NPS-2
SDRWQCB
NONPOINT SOURCE PROGRAM SHORT TERM OBJECTIVES
(to be updated)

Objective	G O A L	F Y	F Y	F Y	F Y	F Y	Management Measures
		0 0 / 0 1	0 1 / 0 2	0 2 / 0 3	0 3 / 0 4	0 4 / 0 5	
Promote public/private, federal/state/local partnership for stream restoration and protection	2	x	x	x	x	x	5.4(A)
Implement appropriate control of non-native, invasive vegetation as a requirement for all channel maintenance activities	2	x	x	x	x	x	5.1, 5.3, 5.4
Improve public agency and developer knowledge of sediment, nutrient, herbicide/pesticide, and bacteriological nonpoint pollution sources and impacts to water quality through presentation, preapplication meetings, and comments on CEQA documents	4	x	x	x	x	x	5.3(A), 5.4(A), 3.1
Provide technical review and assistance to SWRCB on all applications for water appropriation that may impact stream beneficial uses.	3 4	x	x	x	x	x	5.4, 1(F)
Evaluate and consider adoption of a regional stream protection policy.	2			x	x		5.1 (B), 5.3(A), 6(A), 6(B)
Outreach/Education							
Participate in public forums, technical advisory committees, and watershed management stakeholder groups that are action-oriented towards resolving nonpoint source problems.	1 2 3	x	x	x	x	x	1(G), 3.6, 5.4(A)
Target projects for 319(h) and Prop 13 grants with high potential for success of implementing nonpoint source controls.	3	x	x	x	x	x	1(G), 3.6, 5.4(A)
Encourage, assist and support citizen education (including school programs) to facilitate and/or implement BMPs for control of nonpoint sources.	1 4	x	x	x	x	x	1(G), 3.6(A), 4.3(A)
Encourage, assist and utilize citizen monitoring programs to help gauge the health of rivers and streams in San Diego Region watersheds.	1 2 3		x	x	x	x	1(G), 3.6, 5.4(A)

Regional Board Long-term Nonpoint Source Management Goals (as referenced in this table):

1. Monitor and assess ambient water quality and beneficial uses to determine the need for and performance of nonpoint source management measures throughout the region.
2. Ensure effective implementation of high priority, land-use specific nonpoint source pollution management measures throughout the San Diego Region.
3. Facilitate implementation of watershed management plans for prevention and control of nonpoint source pollution throughout the San Diego Region.

TABLE NPS-2
SDRWQCB
NONPOINT SOURCE PROGRAM SHORT TERM OBJECTIVES
(to be updated)

4. Provide technical assistance and education to the public, public agencies, and private land owners and other interested parties about prevention and correction of nonpoint source pollution problems.

**TABLE NPS-3
SAN DIEGO REGION
EDUCATION, OUTREACH, AND TECHNICAL ASSISTANCE**
(to be completed; also see Table NPS-8)

**TABLE 4
OPPORTUNITIES FOR SDRWQCB PROGRAM
INTEGRATION AND COORDINATION**

#	PROGRAMS	POTENTIAL FOR INTEGRATION AND COORDINATION
1	Water Quality Assessment (WQA) and all programs that require and/or do receiving water / sediment monitoring	Require and do receiving water / sediment monitoring that produces results useful for purposes of WQA
2	Water Quality Assessment (WQA) and all programs that receive results of and/or do receiving water / sediment monitoring	Obtain and use for purposes of WQA the results of receiving water / sediment monitoring done for other programs
3	Water Quality Assessment (WQA) and Nonpoint Source	Solicit proposals for 205(j) & Prop 13 grant projects useful for purposes of WQA
4	TMDL and NPDES storm water	Issue storm water dischargers 13267 letters &/or enforcement orders requiring submittal of information needed for TMDLs for impairments caused by polluted runoff
5	TMDL and NPDES storm water	Issue storm water dischargers enforcement orders requiring corrective actions in lieu of, or as part of, TMDLs for impairments caused by polluted runoff
6	TMDL and Nonpoint Source	Solicit proposals for 319(h) and Prop 13 grant projects useful for TMDL development and implementation
7	Nonpoint Source and NPDES storm water	Determine which program can most effectively address which polluted runoff issues
8	Nonpoint Source and NPDES storm water	Solicit proposals for 319(h) and Prop 13 grant projects useful for preventing & reducing storm water pollution
9	Nonpoint Source and Non Chapter 15	Review (and, where appropriate, revise) WDR waivers and procedures for ensuring that waiver conditions are met
10	Nonpoint Source and Non Chapter 15	Issue waste discharge requirements for nonpoint sources
11	Water Quality Certification (Wetlands) and Non Chapter 15	Issue waste discharge requirements for activities subject to for water quality certification; incorporate conditions of water quality certification in waste discharge requirements
12	Nonpoint Source, NPDES storm water, and Water Quality Certification	Combine CEQA process participation
13	NPDES storm water and Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
14	NPDES storm water and Non Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
15	NPDES storm water and NPDES waste water	Combine inspection forms and inspections for facilities regulated under both programs
16	NPDES waste water and Non Chapter 15	Combine inspection forms and inspections for facilities regulated under both programs
17	Basin Planning and Nonpoint Source	Solicit proposals for 205(j) & Prop 13 grant projects useful for Basin Planning
18	Basin Planning and NPDES waste water	Identify needed Basin Plan changes based on permitting process experience
19	Basin Planning and NPDES storm water	Identify needed Basin Plan changes based on permitting process experience
20	Basin Planning and Chapter 15	Identify needed Basin Plan changes based on permitting process experience
21	Basin Planning and Non Chapter 15	Identify needed Basin Plan changes based on permitting process experience
22	Bay Protection and Non Chapter 15	Review / revise WDRs for discharges causing / contributing to toxic hot spots and sites of concern
23	Bay Protection and Non Chapter 15	Make sure WDRs are issued for all dredging projects at toxic hot spots
24	Bay Protection and NPDES waste water	Review / revise permits for discharges causing / contributing to toxic hot spots and sites of concern
25	Bay Protection and NPDES storm water	Review / revise permits for discharges causing / contributing to toxic hot spots and sites of concern
26	Bay Protection and TMDL	Determine if / when BPTCP toxic hot spots and sites of concern should be removed from 303(d) list
27	Bay Protection, Compliance Assurance, Non Chapter 15, NPDES waste water, NPDES storm water (& others??)	Determine if / when sites should be removed from BPTCP lists of toxic hot spots and sites of concern

**TABLE NPS-4B
SDRWQCB
TARGETED PROJECTS FOR FUNDING FROM
STATE REVOLVING FUND**

Project Description	Geographic Location	Management Measures
Erosion Control and Stream Channel Stabilization in Orange County	Aliso Creek, Oso Creek, and other streams in San Juan WMA	5.1, 5.3
Wetlands Restoration in Urban Areas (cleanup, removal of hardscaping, buffer zones, purchases, BMPs)	Regionwide	6.0, 3.3
Constructed Wetlands for Treatment of Stormwater	New and existing urban developments regionwide	3.1, 3.3, 3.5, 6C
Reduce Beach Area Closings (develop and implement BMPs)	Coastal areas regionwide	3.3, 1B, 6C
Reduce Polluted Runoff from Nurseries and Greenhouses	Regionwide	1C, 1D, 1F
Reduce Polluted Runoff from Equestrian Facilities (through implementation of BMPs for waste management, equestrian trail design and management, riparian buffers, and offstream watering)	Regionwide	1(B)
<i>Others to be determined</i>		

**TABLE NPS-4C
SDRWQCB
TARGETED PROJECTS FOR FUNDING FROM
US DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM
(USDA NRCS EQIP)**

PROJECT DESCRIPTION	WATERSHED MANAGEMENT AREA	MANAGEMENT MEASURES
Agricultural land erosion control	Santa Margarita River WMA	1A
Pesticide / herbicide management at nurseries	San Juan WMA Santa Margarita WMA	1D
Horse manure management	San Juan WMA San Diego Bay WMA	1B
<i>Others to be determined</i>		

**TABLE NPS-5
SDRWQCB
WAIVERS OF WASTE DISCHARGE REQUIREMENTS**

#	TYPE OF WASTE DISCHARGE*	MANAGEMENT MEASURES	WAIVER ADOPTED	REVIEW PRIORITY**
1	Conventional septic tank / subsurface disposal systems for residential units	3.4	1983	Low
2	Conventional septic tank / subsurface disposal systems for commercial / industrial establishments	3.4	1983	Low
3	Alternative individual sewerage systems	3.4	1983	Low
4	Conventional septic tank / subsurface disposal systems for campgrounds	3.4	1983	Low
5	Construction and test pumping of water wells	3.1	1983	Low
6	Air conditioner condensate	3.3	1983	Low
7	Animal feeding operations for the following: goats, swine, sheep, horses, buffalo, and poultry	1B	1983	High
8	Plant crop residues	1C	1983	Low
9	Storm water runoff	3.1, 3.2, 3.3, 3.5	1983	High
10	Sand and gravel mining operations	5.1, 5.3	1983	Medium
11	Intermittent swimming pool discharges	3.3	1983	Medium
12	Dredging project wastes	??	1983	Medium
13	Short-term construction dewatering operations	3.2	1983	Medium
14	Telephone, natural gas and electric utility vault and conduit flushing and draining	3.3	1983	Medium
15	Discharges from flushing and draining potable water lines and tanks	3.3	1983	High
16	Manure composting and soil amendment operations	1B	1983	High
17	Solid waste disposal facilities accepting only inert wastes	??	1983	Medium
18	Stream channel alterations	5.1	1983	High
19	Agricultural irrigation return water	1F	1983	Medium
20	Nursery irrigation return water	1F	1983	High
21	Short term use of reclaimed wastewater for soil compaction, dust control, and other purposes	3.2	1983	Low
22	On-site drilling mud discharge	??	1983	Low
23	Timber harvesting	2E	1983	Low
24	Temporary discharge of specified contaminated soils	??	1993	Low
25	Disposal / reuse of dredge spoils in industrial or commercial applications	??	1993	Low
26	Green waste composting facilities	1C	1993	Low

NOTES:

* See Basin Plan Table 4-4 for conditions, references, and other information related to WDR waivers.

** Review schedule to be determined.

**TABLE NPS-6
SAN DIEGO REGION
KEY NONPOINT SOURCE-RELATED PARTNERS**

PARTNER AGENCY (existing or potential)	SUBJECT OF PARTNERSHIP	ADOPTION DATE	TARGET DATE FOR REVIEW OR ADOPTION	MANAGEMENT MEASURE CATEGORIES
Elsinore-Anza-Murietta RCD (existing)	Sediment control (Res. # 79-25)	3/26/79	To be determined	1A
RCDs of San Diego County (existing)	Erosion and sediment control (Res. # 92-21)	4/6/92	To be determined	1A
County of San Diego (existing)	Evapotranspiration and evapotranspiration-infiltration systems (Res. # 80-48)	9/22/80	To be determined	3.4
County of Riverside (potential)	Onsite disposal systems	N/A	To be determined	3.4
County of Orange (potential)	Onsite disposal systems	N/A	To be determined	3.4
County of San Diego (potential)	Onsite disposal systems	N/A	To be determined	3.4
Cities & counties in San Diego region (potential)	Equestrian facility management	N/A	To be determined	1B
Dept of Agriculture; Co of SD Dept of Agriculture; RCDs; City of San Diego Water Dept; UC Cooperative Extension; California Exotic Pest Plant Council; California Native Plant Society (potential)	Weed Management Areas (non-native invasive wildland weeds, including riparian species)	MOUs pending	To be determined	1G, 3.6, 5.4, 6D
Dept of Fish & Game; US Fish & Wildlife Service; National Marine Fisheries Service; Dept of Food & Agriculture; US Dept of Agriculture; Co of SD Dept of Agriculture; University of California; SARWQCB (existing)	Southern California Caulerpa Action Team (non-native invasive marine alga <i>Caulerpa taxifolia</i>)	Initiated 7/00	To be determined	3.6, 4.3, 6D

**TABLE NPS-6
SAN DIEGO REGION
KEY NONPOINT SOURCE-RELATED PARTNERS**

PARTNER AGENCY (existing or potential)	SUBJECT OF PARTNERSHIP	ADOPTION DATE	TARGET DATE FOR REVIEW OR ADOPTION	MANAGEMENT MEASURE CATEGORIES
Pacific Merchant Shipping Ass'n; Center for Marine Conservation; California Sea Grant; Department of Fish & Game; State Lands Commission; US Coast Guard; US Fish & Wildlife Service; National Oceanic & Atmospheric Administration; San Diego Unified Port District; other port and harbor districts (potential)	Non-native invasive marine species (e.g., there is an existing West Coast Ballast Outreach Project)	N/A	To be determined	4.2C
Department of Boating and Waterways; Department of Fish & Game; Integrated Waste Management Board; Coastal Commission; State Lands Commission; US Coast Guard; port and harbor districts (potential)	Vessel / marina / port facility waste control	N/A	To be determined	4.1, 4.2, 4.3
<i>Others to be determined</i>				

**TABLE NPS-7
SDRWQCB
PROPOSED FY 2000/01 NONPOINT SOURCE PROGRAM RESOURCE
ALLOCATION**
(to be updated for 2001/02)

Task	Product(s)	Management Measure(s)	Staff or Contract	Cost* Proposed [existing] 2000/01 [1999/00]
<i>Program Management</i>				
Participate on Nonpoint Source (NPS) Roundtable Oversee implementation of the NPS Program	Workplan, Annual and Semiannual NPS Reports	All	Staff	0.3 py [0.1 py]
<i>Watershed Management</i>				
Oversee implementation of management measures throughout region.	Meeting minutes, Watershed Management Plan Progress Reports, Annual and Semiannual and NPS Reports	All	Staff	1.0 py [none]
<i>Land Use Management Measures</i>				
<i>Urban Areas</i>				
Coordinate and facilitate implementation of NPS management measures in new urban developments to prevent/reduce/control the discharge of pollutants and the spread of non-native invasive vegetation.	Water quality certification reports with records of NPS management measure implementation, Annual and Semiannual and NPS Reports	3.1(A), 3.1(C) 3.6	Staff	1.0 py [0.05 py**]
Promote the restoration of wetland/riparian habitats and water quality functions in existing urban areas through assistance in wetland grant development and project management.	Grant proposals, Wetland grant status reports and final reports	3.3, 6(B)	Staff	0.5 py [none]

**TABLE NPS-7
SDRWQCB
PROPOSED FY 2000/01 NONPOINT SOURCE PROGRAM RESOURCE
ALLOCATION**
(to be updated for 2001/02)

Task	Product(s)	Management Measure(s)	Staff or Contract	Cost* Proposed [existing] 2000/01 [1999/00]
<i>Agriculture</i>				
Coordinate and implement erosion prevention/control with local RCDs and NRCS.	Inspection reports, Enforcement orders where needed, Annual and Semiannual and NPS Reports	1(D)	Staff	0.3 py [none]
Chair TAC for Agua Hedionda Lagoon Shellfish Growing Grounds, determine source(s) for bacteria, implement and monitor success of BMPs	Meeting minutes, Monitoring/evaluation reports, Annual and Semiannual and NPS Reports	1(G)	Staff	0.1 py [0.2 py]
Participate in monitoring of BMP implementation and evaluate water quality impacts caused by efforts to control non-native red fire ants	Depart. of Pesticide Regulation reports, Meeting minutes, Data reports, Annual and Semiannual and NPS Reports	1(D)	Staff	0.2 py [none]
Implement watershed monitoring efforts to evaluate effectiveness of BMPs at agricultural facilities (ie. nurseries, green houses, groves, row crops)	Inspection and monitoring reports, Annual and Semiannual and NPS Reports	1(G)	Staff	0.4 py [none]
Develop and implement consistent regional approach to horse manure management at equestrian facilities	Listing and locations of all significant commercial stables, equestrian associations, and equestrian trails, Evaluation report, Regional standards, WDRs where needed, Enforcement orders	1(B), 1(G)	Staff	0.3 py [none]

TABLE NPS-7
SDRWQCB
PROPOSED FY 2000/01 NONPOINT SOURCE PROGRAM RESOURCE
ALLOCATION
(to be updated for 2001/02)

Task	Product(s)	Management Measure(s)	Staff or Contract	Cost* Proposed [existing] 2000/01 [1999/00]
	where needed			
Development and implement consistent regional approach to golf course design and BMPs to reduce NPS pollution sources and impacts	Listing of locations and contact persons for all golf courses in region, Evaluation report, Regional standards, WDRs where needed, Enforcement orders where needed	1 (C), 1(D), 6(G)	Staff	0.3 py [none]
<i>Marinas and Recreational Boating</i>				
Determine baseline water quality conditions, BMP implementation, and BMP effectiveness in marinas in San Diego Bay, Mission Bay, and Oceanside Harbor	Evaluation report, Annual and Semiannual and NPS Reports	4.1(A)	Staff	0.5 py [none]
Evaluate implementation of recent California requirement for ballast water flushing	Evaluation report	4.3(A)	Staff	0.1 py [0.05 py**; where 0.25 py of the original 0.3 py has been shifted to urban, hydro, and outreach activities]
<i>Hydromodification</i>				
Coordinate regulatory process for hydromodification permits with NPS program management measures	Water quality certification records, Annual and Semiannual and NPS Reports	3.1(A,B,C), 5.4(A)	Staff	0.5 py [0.05 py**]
Promote partnerships (municipalities, counties, RCDs, citizen groups) for stream restoration and protection	Meeting minutes, Restoration project reports, Annual and Semiannual and NPS Reports	5.4(A)	Staff	0.1 py [none]

**TABLE NPS-7
SDRWQCB
PROPOSED FY 2000/01 NONPOINT SOURCE PROGRAM RESOURCE
ALLOCATION**
(to be updated for 2001/02)

Task	Product(s)	Management Measure(s)	Staff or Contract	Cost* Proposed [existing] 2000/01 [1999/00]
Coordinate and implement appropriate control of non-native invasive vegetation as a requirement of all channel maintenance activities	Records of program implementation (acres and effectiveness), Water quality certification records	5.1, 5.3, 5.4	Staff	0.2 py [0.05 py**]
Provide information and comments to municipal land use and developer personnel on the changes in hydrology, water quality, and beneficial uses that can be caused by urban development NPS impacts	CEQA comment letters, Meeting minutes, Annual and Semiannual and NPS Reports	5.3(A), 5.4(A)	Staff	0.2 py [none]
Attend and participate in pre-CEQA scoping meetings with municipal and developer personnel to insure that NPS issues are addressed	Meeting minutes, Project records	5.3(A), 5.4(A)	Staff	0.3 py [none]
Provide follow-up monitoring of mitigation measures which are to be implemented in accordance with CEQA documents and water quality certification requirements	Inspection reports, Enforcement orders where needed, Annual and Semiannual NPS Reports	5.1, 5.3, 5.4, 3.1	Staff	0.3 py [none]
Provide technical review and assistance to SWRCB on all applications for water Appropriation that may have adverse NPS impacts on stream beneficial uses	Records of petitions, Comment letters, Annual and Semiannual and NPS Reports	1(F)	Staff	0.2 py [0.05 py**]

**TABLE NPS-7
SDRWQCB
PROPOSED FY 2000/01 NONPOINT SOURCE PROGRAM RESOURCE
ALLOCATION**
(to be updated for 2001/02)

Task	Product(s)	Management Measure(s)	Staff or Contract	Cost* Proposed [existing] 2000/01 [1999/00]
<i>Outreach and Education</i>				
Participate in public forums, technical advisory committees, and watershed management stakeholder groups to promote implementation of NPS management practices	Meeting Minutes, Presentation Materials, Guidance Materials, Annual and Semiannual and NPS Reports	All	Staff	1.0 py [0.2 py]
Target, promote, review, evaluate, and select CWA 319(h) grant projects	Annual and Semiannual and NPS Reports	All	Staff	0.2 py [0.2 py]
Manage CWA 319(h) grant projects	Project Reports, Annual and Semiannual and NPS Reports	All	Staff	0.6 py [0.6 py]
Encourage and support citizen education (including school programs) to facilitate and/or implement BMPs for NPS pollution.	Meeting Minutes, Presentation Materials, Guidance Materials, Annual and Semiannual and NPS Reports	All	Staff	0.2 py [0.05 py**]
Encourage, assist, and utilize citizen monitoring programs to help monitor the condition of rivers and coastal lagoons in the region	Monitoring Reports, Meeting Minutes, Annual and Semiannual and NPS Reports	1(G), 3.6, 5.4(A)	Staff	0.2 py [none]
Total Proposed Cost (2000/2001):				9.0 pys [1.6 pys]
* NPS staff resources, including: resources proposed for fiscal year (FY) 2000/2001 resources provided during this year fiscal year, (FY)1999-2000, [shown in brackets]				
** 0.25 py of the original 0.3 py for marine invasive exotics control in FY 99-00 has been shifted to urban, hydro, and outreach activities				

**TABLE NPS-8
SAN DIEGO REGION
ROUTINE NONPOINT SOURCE-RELATED MEETINGS
(preliminary list)**

#	GROUP / PROJECT / ORGANIZATION NAME	LEAD ENTITY	NUMBER OF ROUTINE MEETINGS PER YEAR (estimated)	AGRICULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
SAN JUAN WMA								
1	Aliso Creek Watershed Management Study Management Team	Corps of Engineers / County of Orange	6	X	X		X	X
2	Aliso Creek Watershed Management Study Resource Agency Coordination Meeting	Corps of Engineers / County of Orange	2	X	X		X	X
3	Aliso Creek / San Juan Creek Water Quality Task Force	County of Orange	6	X	X			
4	Dana Point Harbor Water Quality Task Force	County of Orange	6		X	X	X	X
5	San Juan Creek Watershed Management Study Management Team	Corps of Engineers / County of Orange	6	X	X		X	X
6	San Juan Creek Watershed Management Study Resource Agency Coordination Meeting	Corps of Engineers / County of Orange	2	X	X		X	X
7	San Mateo Creek / San Onofre Creek Watershed / Steelhead Restoration Project (Prop 12 set-aside project)	State Coastal Conservancy	4	X	X		X	X
8	Special Area Management Plan (SAMP) for Rancho Mission Viejo (??)	??	4	X	X		X	X
SANTA MARGARITA RIVER WMA								
9	Murietta Creek Advisory Committee	City of Murietta	6	X	X		X	X
10	Santa Margarita River Water Quality Monitoring Group	Marine Corps Base Camp Pendleton	6	X	X		X	X
11	Santa Margarita Home to Ocean (aka SM H:O) - A Citizen's Water Quality Monitoring Program (319(h))	Mission RCD	4	X	X		X	X
SAN LUIS REY RIVER WMA								
12	San Luis Rey Watershed Council	UC Cooperative Extension / Mission RCD	4	X	X		X	X

TABLE NPS-8
SAN DIEGO REGION
ROUTINE NONPOINT SOURCE-RELATED MEETINGS
 (preliminary list)

#	GROUP / PROJECT / ORGANIZATION NAME	LEAD ENTITY	NUMBER OF ROUTINE MEETINGS PER YEAR (estimated)	AGRICULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
CARLSBAD WMA								
13	Loma Alta Creek Watershed Management and Enhancement Plan Technical Advisory Committee (205(j))	City of Oceanside	4	X	X		X	X
14	Buena Vista Lagoon Joint Powers Committee	Cities of Vista, Oceanside, and Carlsbad	12	X	X		X	X
15	Buena Vista Lagoon Foundation	Buena Vista Lagoon Foundation / Department of Fish and Game	4	X	X		X	X
16	Agua Hedionda Lagoon Foundation	Agua Hedionda Lagoon Foundation	4					
17	Agua Hedionda Lagoon Technical Advisory Committee	SDRWOCB	10	X	X	X	X	X
18	Batiquitos Lagoon Foundation	Batiquitos Lagoon Foundation	4	X	X		X	X
19	The Escondido Creek Conservancy	The Escondido Creek Conservancy	4	X	X		X	X
20	San Elijo Lagoon Conservancy	San Elijo Lagoon Conservancy	4	X	X		X	X
21	Carlsbad Watershed Network	RCD of Greater San Diego County	12	X	X	X	X	X
22	Carlsbad Watershed Network Technical Advisory Committee	RCD of Greater San Diego County	4	X	X	X	X	X
23	Watershed Management Plan for Carlsbad HU (205(j))	RCD of Greater San Diego County	4	X	X	X	X	X
SAN DIEGUITO RIVER WMA								
24	San Dieguito River Park Joint Powers Authority	San Dieguito River Park Joint Powers Authority	6	X	X		X	X
PENASQUITOS / MISSION BAY WMA								
25	Los Penasquitos Lagoon Enhancement Plan	Los Penasquitos Lagoon Foundation	4	X	X		X	X
26	Mission Bay Advisory Group	City of San Diego	4	X	X	X	X	X
27	CREEK: Creek Restoration and Ecology for Kids (319(h))	The Nature School	4		X		X	X
28	STAR: Simple Technology Against Runoff (319(h))	The Nature School	4		X		X	X
SAN DIEGO RIVER WMA								
29	San Diego River Watershed Workgroup	County of SD	4		X		X	X

**TABLE NPS-8
SAN DIEGO REGION
ROUTINE NONPOINT SOURCE-RELATED MEETINGS
(preliminary list)**

#	GROUP / PROJECT / ORGANIZATION NAME	LEAD ENTITY	NUMBER OF ROUTINE MEETINGS PER YEAR (estimated)	AGRICULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
	<i>SAN DIEGO BAY WMA</i>							
30	San Diego Harbor Safety Committee	Coast Guard	4			X		
31	San Diego Bay Watershed Task Force	San Diego Unified Port District	4	X	X	X	X	X
32	Pueblo San Diego Watershed Subcommittee to the San Diego Bay Watershed Task Force	San Diego Unified Port District	4	X	X			
33	Sweetwater - Otay Watershed Subcommittee to the San Diego Bay Watershed Task Force	Sweetwater Authority	4	X	X		X	X
34	Chollas Creek Enhancement Program	City of San Diego	2	X	X		X	X
35	Citizen Watershed Monitoring Program (319(h))	San Diego BayKeeper	4		X		X	X
36	Sweetwater Watershed Summit - Students Solving Water Quality Problems (319(h))	RCD of Greater San Diego County	4	X	X		X	X
37	Roberts Ranch Watershed Restoration Project (319(h))	US Forest Service	4	X			X	X
38	Otay Valley Regional Park Public Education Project (319(h))	County of San Diego Dept of Parks & Recreation	4	X	X		X	X
39	Assessing Effects of Various BMPs for Underwater Hull Cleaning (319(h))	Southern California Coastal Water Research Project	4			X		
40	Nontoxic Recreational Boat Hull Paint Demonstration for San Diego Bay (319(h))	UC Cooperative Extension Marine Advisor	4			X		
	<i>TIJUANA RIVER WMA</i>							
41	Tijuana River Watershed Outreach Program	San Diego Natural History Museum	4	X	X		X	X

TABLE NPS-8
SAN DIEGO REGION
ROUTINE NONPOINT SOURCE-RELATED MEETINGS
 (preliminary list)

#	GROUP / PROJECT / ORGANIZATION NAME	LEAD ENTITY	NUMBER OF ROUTINE MEETINGS PER YEAR (estimated)	AGRICULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
	<i>MULTIPLE WMAs</i>							
42	Southern California Caulerpa Action Team	SDRWQCB	12		X	X		X
43	California Shore & Beach Preservation Association Subcommittee on Resource Agency Concerns Regarding Beach Replenishment	California Shore & Beach Preservation Association	2				X	X
44	SANDAG Shoreline Erosion Committee	San Diego Association of Governments	4				X	X
45	Santa Margarita / San Luis Rey Watershed Planning Agency	Rancho California Water District	4	X	X		X	X
46	Watershed Working Group	County of San Diego / UC Cooperative Extension	4	X	X	X	X	X
47	Watershed Educators Group	UC Cooperative Extension	4	X	X	X	X	X
48	Watershed Management Council	UC Davis	6	X	X		X	X
49	Wetland Technical Subcommittee	City of San Diego	6	X	X		X	X
50	Wetlands Advisory Board	City of San Diego	6	X	X		X	X
51	Wetlands Working Group	Endangered Habitats League	4	X	X		X	X
52	Southern California Wetlands Recovery Project	State Coastal Conservancy	12	X	X		X	X
53	Multiple Species Conservation Program Working Group	City of San Diego	6				X	X
54	Multiple Habitat Conservation Program Advisory Committee	San Diego Association of Governments	6				X	X
55	North County Multiple Habitat Conservation Program	County of San Diego	4				X	X
56	Environmental Quality Incentives Program Technical Advisory Committee	San Diego County Association of Resource Conservation Districts	2	X			X	X
57	General Plan 2020	Co of San Diego Department of Planning & Land Use	12	X	X		X	X
58	Nonpoint Source Roundtable	SWRCB	6	X	X	X	X	X
59	San Diego Weed Management Area	Co SD Dept of Agriculture	4	X			X	X
60	<i>city & county planning, development and land use departments and planning groups</i>	<i>(various)</i>	12	X	X	X	X	X
		ESTIMATED TOTAL NUMBER OF ROUTINE MEETINGS PER YEAR	310					

TABLE NPS-9
SAN DIEGO REGION
NONPOINT SOURCE-RELATED GROUPS AND ORGANIZATIONS
(preliminary list)

1/2/01

#	GROUP / ORGANIZATION NAME	AGRI-CULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
SAN JUAN WMA						
1	Aliso Creek Watershed Management Study Management Team	X	X		X	X
2	Aliso Creek / San Juan Creek Water Quality Task Force	X	X			
3	Dana Point Harbor Water Quality Task Force		X	X	X	X
4	San Juan Creek Watershed Management Study Management Team	X	X		X	X
SANTA MARGARITA RIVER WMA						
5	Murietta Creek Advisory Committee	X	X		X	X
6	Santa Margarita River Water Quality Monitoring Group	X	X		X	
7	Santa Margarita River Watermaster	X	X		X	X
SAN LUIS REY RIVER WMA						
8	San Luis Rey Watershed Council	X	X		X	X
9	River Watch	x	x		x	x
CARLSBAD WMA						
10	Buena Vista Lagoon Joint Powers Committee	X	X		X	X
11	Buena Vista Lagoon Foundation	X	X		X	X
12	Agua Hedionda Lagoon Foundation	X	X	X	X	X
13	Agua Hedionda Lagoon Technical Advisory Committee	X	X		X	X
14	Batiquitos Lagoon Foundation	X	X		X	X
15	The Escondido Creek Conservancy	X	X		X	X
16	San Elijo Lagoon Conservancy	X	X		X	X
17	Cottonwood Creek Conservancy	X	X		X	X
18	Canyons Network	X	X		X	X
19	Carlsbad Watershed Network	X	X	X	X	X
20	Carlsbad Watershed Network Technical Advisory Committee	X	X	X	X	X
SAN DIEGUITO RIVER WMA						
21	San Dieguito River Park Joint Powers Authority	X	X		X	X
22	San Dieguito River Valley Land Conservancy	X	X		X	X
23	Friends of San Dieguito River Valley	X	X		X	X

TABLE NPS-9
SAN DIEGO REGION
NONPOINT SOURCE-RELATED GROUPS AND ORGANIZATIONS
(preliminary list)

1/2/01

#	GROUP / ORGANIZATION NAME	AGRI-CULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO-MODIFICATION	WET-LANDS
	<i>PENASQUITOS / MISSION BAY WMA</i>					
24	Los Penasquitos Lagoon Foundation	X	X		X	X
25	Friends of Penasquitos Canyon Preserve	X	X		X	X
26	Carmel Mountain Conservancy	X	X		X	X
27	The Nature School	X	X	X	X	X
28	Mission Bay Advisory Group	X	X	X	X	X
29	Friends of Marian Bear Memorial Natural Park	X	X		X	X
	<i>SAN DIEGO RIVER WMA</i>					
30	San Diego River Watershed Workgroup	X	X		X	X
31	Friends of Mission Valley Preserve	X	X		X	X
32	Friends of Famosa Slough		X		X	X
	<i>SAN DIEGO BAY WMA</i>					
33	San Diego Harbor Safety Committee			X		
34	San Diego Bay Watershed Task Force	X	X	X	X	X
35	Pueblo San Diego Watershed Subcommittee to the San Diego Bay Watershed Task Force	X	X		X	X
36	Sweetwater - Otay Watershed Subcommittee to the San Diego Bay Watershed Task Force	X	X		X	X
37	Chollas Creek Enhancement Program	X	X		X	X
38	Paradise Creek Educational Park, Inc.	X	X		X	X
39	Chula Vista Nature Interpretive Center	X	X	X	X	X
40	San Diego Port Tenants Association		X	X	X	X
41	Friends of South Bay Wildlife	X	X	X	X	X
	<i>TIJUANA RIVER WMA</i>					
42	Southwest Wetlands Interpretive Association	X	X		X	X
43	Citizens Revolting Against Pollution	X	X			
44	Tijuana River Valley Equestrian Association	X	X		X	X
45	International Boundary & Water Commission	X	X		X	X
46	US Border Patrol				X	X
	<i>MULTIPLE WMAs</i>					
47	Southern California <i>Caulerpa</i> Action Team		X	X	X	X
48	San Diego Weed Management Area	X			X	X
49	Santa Margarita / San Luis Rey Weed Management Area	X			X	X
50	San Diego Natural History Museum	X	X	X	X	X

TABLE NPS-9
SAN DIEGO REGION
NONPOINT SOURCE-RELATED GROUPS AND ORGANIZATIONS
(preliminary list)

1/2/01

#	GROUP / ORGANIZATION NAME	AGRI- CULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO- MODIFICATION	WET- LANDS
51	California Shore & Beach Preservation Association				X	X
52	California Shore & Beach Preservation Association Subcommittee on Resource Agency Concerns Regarding Beach Replenishment				X	X
53	San Diego Association of Governments Shoreline Erosion Committee				X	X
54	Santa Margarita / San Luis Rey Watershed Planning Agency	X	X		X	X
55	Watershed Working Group	X	X	X	X	X
56	Watershed Educators Group	X	X	X	X	X
57	Watershed Management Council	X	X		X	X
58	Wetland Technical Subcommittee	X	X		X	X
59	Wetlands Advisory Board	X	X		X	X
60	Wetlands Working Group	X	X		X	X
61	SoCal Wetlands Recovery Project	X	X		X	X
62	Multiple Species Conservation Program Working Group				X	X
63	Multiple Habitat Conservation Program Advisory Committee				X	X
64	North County Multiple Habitat Conservation Program				X	X
65	Elsinore-Murietta-Anza RCD	X	X		X	X
66	Mission RCD	X	X		X	X
67	RCD of Greater San Diego County	X	X		X	X
68	San Diego County Ass'n of RCDs	X	X		X	X
69	Environmental Quality Incentives Program Technical Advisory Committee	X			X	X
70	California Association of RCDs	X	X		X	X
71	<i>city & county flood control districts / departments</i>				X	X
72	<i>city & county public works departments</i>	X	X	X	X	X
73	<i>city & county parks and recreation departments</i>	X	X	X	X	X
74	<i>city & county planning, development, and land use departments and planning groups</i>	X	X	X	X	X
75	<i>city & county vector control departments</i>	X	X		X	X
76	<i>city & county animal control departments</i>	X				
77	<i>city & county property departments</i>	X	X	X	X	X
78	<i>city & county environmental health departments</i>	X	X	X	X	X
79	<i>county agriculture departments & commissioners</i>	X			X	X
80	<i>water supply departments & agencies</i>	X	X	X	X	X

TABLE NPS-9
SAN DIEGO REGION
NONPOINT SOURCE-RELATED GROUPS AND ORGANIZATIONS
(preliminary list)

1/2/01

#	GROUP / ORGANIZATION NAME	AGRI- CULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO- MODIFICATION	WET- LANDS
81	<i>wastewater collection / treatment / disposal departments & agencies</i>		X			
82	<i>schools & community colleges</i>	X	X	X	X	X
83	San Diego Unified Port District		X	X	X	X
84	San Diego Association of Governments	X	X	X	X	X
85	Southern California Association of Governments	X	X	X	X	X
86	Southern California Coastal Water Research Project	X	X	X	X	X
87	Cal EPA	X	X	X	X	X
88	State Water Resources Control Board	X	X	X	X	X
89	Nonpoint Source Roundtable	X	X	X	X	X
90	CA Dept of Pesticide Regulation	X	X	X		
91	CA Integrated Waste Mngmnt Board			X		
92	CA Resources Agency	X	X	X	X	X
93	California Coastal Commission	X	X	X	X	X
94	State Coastal Conservancy	X	X	X	X	X
95	CA Dept of Water Resources	X	X	X	X	X
96	CA Dept of Conservation	X	X		X	X
97	CA Dept of Forestry and Fire Protection	X	X		X	X
98	California Conservation Corps	X	X		X	X
99	CA Dept of Boating and Waterways			X	X	X
100	CA Dept of Parks and Recreation	X	X	X	X	X
101	CA Dept of Fish and Game	X	X	X	X	X
102	California Wildlife Conservation Board	X			X	X
103	CA Dept of Health Services	X	X	X		
104	CA Dept of Food and Agriculture	X			X	X
105	CA Dept of Transportation		X		X	X
106	CA Office of Planning and Research	X	X	X	X	X
107	State Lands Commission	X	X	X	X	X
108	University of California	X	X	X	X	X
109	University of California Cooperative Extension	X	X	X	X	X
110	UC Natural Reserve System	X	X		X	X
111	San Diego State University	X	X	X	X	X
112	California State University, San Marcos	X	X	X	X	X
113	US Environmental Protection Agency	X	X	X	X	X
114	US Natural Resources Conservation Service	X	X		X	X
115	US Forest Service	X			X	X
116	US Fish and Wildlife Service	X	X	X	X	X
117	US Farm Services Agency	X			X	X
118	National Park Service		X		X	X
119	Bureau of Land Management	X			X	X
120	Bureau of Reclamation					

TABLE NPS-9
SAN DIEGO REGION
NONPOINT SOURCE-RELATED GROUPS AND ORGANIZATIONS
(preliminary list)

1/2/01

#	GROUP / ORGANIZATION NAME	AGRI- CULTURE, ANIMAL WASTE, NURSERIES & GOLF COURSES	URBAN RUNOFF	VESSELS, MARINAS & PORT FACILITIES	HYDRO- MODIFICATION	WET- LANDS
121	National Oceanic and Atmospheric Administration (incl NMFS)	X	X	X	X	X
122	US Geological Survey	X	X	X	X	X
123	US Dept of Agriculture					
124	Americorps NCCC	X	X	X	X	X
125	Corps of Engineers				X	X
126	Marine Corps	X	X	X	X	X
127	Navy	X	X	X	X	X
128	Coast Guard			X		
129	Environmental Health Coalition		X	X	X	X
130	Orange County Coast Keeper	X	X	X	X	X
131	San Diego BayKeeper	X	X	X	X	X
132	Center for Marine Conservatin	X	X	X	X	X
133	Surfers Tired of Pollution	X	X			
134	Surfrider Foundation	X	X			
135	Planning and Conservation League	X	X	X	X	X
136	California Native Plant Society	X	X		X	X
137	Endangered Habitats League	X	X	X	X	X
138	Alliance for Habitat Conservation	X	X	X	X	X
139	River Valley Preservation League	X	X		X	X
140	Urban Rivers Greenbelt	X	X		X	X
141	Statewide Urban Creeks Council	X	X		X	X
142	Adopt-A-Watershed	X	X		X	X
143	San Diego Trout	X	X		X	X
144	California Trout, Inc.	X	X		X	X
145	Trout Unlimited	X	X		X	X
146	The Nature Conservancy	X	X	X	X	X
147	Sierra Club	X	X	X	X	X
148	National Audubon Society	X	X	X	X	X
149	Center for Biological Diversity	X	X	X	X	X
150	Save Our Forests and Ranchlands	X	X		X	X
151	Mountain Defense League	X	X		X	X
152	Natural Resources Defense Council	X	X	X	X	X
153	San Diego Oceans Foundation		X	X		
154	San Diego Association of Yacht Clubs			X		
155	Dockmasters Group			X		
156	SoCal Coalition for Pollution Prevention	X	X	X		
157	Industrial Environmental Association		X	X	X	X
158	<i>chambers of commerce</i>		X			
159	<i>farm bureaus</i>	X			X	X
160	<i>nursery group(s)</i>	X			X	X
161	<i>golf course group(s)</i>	X			X	X
162	<i>equestrian group(s)</i>	X			X	X
163	Native American Environmental Coalition	X	X		X	X
	<i>others to be determined</i>	X	X	X	X	X

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX A
OVERVIEW OF SAN DIEGO REGION
WATERSHED MANAGEMENT AREAS**
(also see Table T-2)

1. SAN JUAN WATERSHED MANAGEMENT AREA

San Juan Hydrologic Unit (HU 901.00)

The San Juan Hydrologic Unit is a trapezoidal-shaped area of about 500 square miles. The entire area of Orange County within the jurisdiction of the SDRWQCB is in the HU. Portions of Riverside County and San Diego County, several cities and unincorporated communities, and a portion of US Marine Corps Base Camp Pendleton are also located in the HU.

The three major creeks in the HU are Aliso Creek, San Juan Creek, and San Mateo Creek.

The watershed of Aliso Creek is the Aliso Hydrologic Subarea (HSA), an area of approximately 36 square miles. Precipitation in the watershed ranges from 12 to 14 inches per year. Aliso Creek flows into the Pacific Ocean in southern Laguna Beach at Aliso Beach Park, a popular recreational area.

San Juan Creek is the longest creek in the HU and the creek with the largest watershed in the HU. The headwaters of the creek are in the Cleveland National Forest; the mouth of the creek is at Doheny Beach State Park. Dana Point Harbor is a small craft harbor constructed just upcoast from the mouth of the creek, adjacent to Dana Point (which was named after Richard Henry Dana, who described pre-gold rush coastal California in *Two Years Before the Mast*).

A sizeable saltwater tidal marsh is located at the mouth of San Mateo Creek. Southern steelhead, a listed species, has been found in San Mateo Creek.

2. SANTA MARGARITA RIVER WATERSHED MANAGEMENT AREA

Santa Margarita Hydrologic Unit (HU 902.00)

The Santa Margarita Hydrologic Unit is a rectangular area of about 750 square miles located partly in Riverside County and partly in San Diego County. The cities of Murrieta and Temecula, and parts of Camp Pendleton and the unincorporated community of Fallbrook are located in the HU.

The HU is the watershed of the Santa Margarita River. The major tributaries of the river are Murrieta Creek and Temecula Creek. Annual

precipitation ranges from less than 12 inches near the coast to more than 45 inches inland near Palomar Mountain. Santa Margarita Lagoon, the estuary of the Santa Margarita River, is located entirely within Camp Pendleton.

3. **SAN LUIS REY RIVER WATERSHED MANAGEMENT AREA**

San Luis Rey Hydrologic Unit (HU 903.00)

San Luis Rey Hydrologic Unit is a rectangular area of about 565 square miles, and includes all or parts of Camp Pendleton, the City of Oceanside, and the unincorporated communities of Fallbrook and Valley Center. In addition there are several Indian reservations in the HU. The HU is the watershed of the San Luis Rey River. Lake Henshaw, one of the largest water storage reservoirs in the San Diego Region, is located on upper portion of the river. Annual precipitation is heavier than in other units, ranging from less than 12 inches near the coast to 45 inches inland near Palomar Mountain.

The San Luis Rey River estuary is located at the mouth of the river, within the City of Oceanside and adjacent to the City's northern boundary. The mouth of the river is immediately adjacent to Oceanside Harbor and Del Mar Boat Basin, which are located side-by-side and protected from the ocean by the same breakwater. Oceanside Harbor is a civilian small craft harbor managed by the City of Oceanside. Del Mar Boat Basin is a military small craft harbor which is part of Camp Pendleton.

4. **CARLSBAD WATERSHED MANAGEMENT AREA**

Carlsbad Hydrologic Unit (HU 904.00)

Carlsbad Hydrologic Unit is a roughly triangular-shaped area of about 210 square miles. The unit includes all or portions of the cities of Oceanside, Carlsbad, Encinitas, Vista, and Escondido.

The HU contains one small coastal lagoon (Loma Alta Slough) and four major coastal lagoons (Buena Vista, Agua Hedionda, Batiquitos and San Elijo).

Loma Alta Slough is a small coastal lagoon located entirely within the City of Oceanside at the mouth of Loma Alta Creek. The slough is normally blocked off from the ocean by a sandbar.

Buena Vista Lagoon, at the mouth of Buena Vista Creek, lies between the cities of Carlsbad and Oceanside, and is partially within each city. Although the lagoon is at the mouth of the creek, a weir at the mouth of the lagoon maintains the lagoon water level above that of the ocean, so the lagoon is a freshwater environment. The source of water in the lagoon is inflow of rising groundwater and irrigation return water from the

area that drains to Buena Vista Creek. A portion of the lagoon has been designated as a bird sanctuary.

Agua Hedionda Lagoon, at the mouth of Agua Hedionda Creek, is located within the City of Carlsbad. Since the lagoon serves as an integral part of a power plant cooling water intake system, the lagoon is routinely dredged to keep it open to the ocean and maintain the tidal prism to provide a reserve cooling water supply. Jetties at the mouth of the lagoon also help keep the lagoon open to the ocean. The easterly portion of the lagoon is used for water-oriented recreation. The lagoon was the first location on the west coast of North America where the destructive non-native invasive alga *Caulerpa taxifolia* was found.

Batiquitos Lagoon, at the mouth of San Marcos Creek, enters the Pacific Ocean between the City of Carlsbad and the community of Leucadia, part of the City of Encinitas. As part of a recent offsite mitigation project for the Port of Los Angeles, the lagoon was dredged to remove accumulated sediment and jetties were constructed at mouth of the lagoon to keep the lagoon open to tidal action.

San Elijo Lagoon is the tidal marsh at the mouth of Escondido Creek. The marsh is normally closed off from the ocean but is subject to tidal fluctuations. Lake Wohlford is a reservoir located in the upper part of the Escondido Creek watershed.

5. SAN DIEGUITO RIVER WATERSHED MANAGEMENT AREA

San Dieguito Hydrologic Unit (HU 905.00)

San Dieguito Hydrologic Unit is a rectangular-shaped area of about 350 square miles. It includes the San Dieguito River and its tributaries, including Santa Ysabel and Santa Maria creeks. The HU contains two major reservoirs, Lake Hodges and Sutherland Reservoir. The San Dieguito Lagoon is located at the mouth of the San Dieguito River. The lagoon forms the northerly boundary of the City of Del Mar. The lagoon is normally closed off from the ocean by a sandbar.

6. PENASQUITOS / MISSION BAY WATERSHED MANAGEMENT AREA

Penasquitos Hydrologic Unit (HU 906.00)

Penasquitos Hydrologic Unit is a triangular-shaped area of about 170 square miles, which includes portions of the cities of Poway and San Diego. Annual precipitation in the HU ranges from less than 8 inches along the coast to 18 inches inland. Several small creeks drain this HU. Miramar Reservoir contains imported water (mainly from the Colorado River.)

Los Penasquitos (or Sorrento) Lagoon, at the mouth of Penasquitos Creek, is part of the Torrey Pines State Preserve, where the only

remaining mainland stand of the rare Torrey Pine occurs. The mouth of the lagoon is periodically opened to allow tidal circulation.

Mission Bay, a small craft harbor and recreational area has been extensively dredged and filled. Only the Kendall-Frost Reserve (part of the University of California Natural Reserve System) located in the northeastern part of the bay, remains in a somewhat natural state. The San Diego River, which historically flowed into the bay, has been re-routed directly to the ocean.

7. SAN DIEGO RIVER WATERSHED MANAGEMENT AREA

San Diego Hydrologic Unit (HU 907.00)

San Diego Hydrologic Unit is a long, triangular-shaped area of about 440 square miles drained by the San Diego River. San Vicente, Jennings, Murray, El Capitan, and Cuyamaca reservoirs are major water supply storage facilities in the HU. San Vicente, Jennings, and Murray reservoirs store mostly imported (mainly Colorado River) water. El Capitan Reservoir stores mostly local runoff and some imported (mainly Colorado River) water. Cuyamaca Reservoir stores only local runoff. Annual precipitation ranges from less than 11 inches at the coast to about 35 inches around Cuyamaca and El Capitan reservoirs.

Much of the impounded water is used to serve major developed areas within and outside the HU. The HU includes all or portions of the cities of San Diego, Poway, La Mesa, and El Cajon and the unincorporated communities of Santee, Lakeside, Alpine and Julian.

The San Diego River historically flowed into Mission Bay and San Diego Bay. However, the river has been channelized and now flows directly into the Pacific Ocean without entering either bay. The salt water tidal marsh confined within the river channel and Famosa Slough (which is connected to but outside of the river channel) are all that remain of a once extensive salt water tidal marsh at the mouth of the river.

8. SAN DIEGO BAY WATERSHED MANAGEMENT AREA

San Diego Bay

San Diego Bay is a natural, crescent-shaped embayment extending approximately 14 miles along a curved axis from where it opens to the Pacific Ocean at Point Loma in the north to its innermost reaches at the mouth of the Otay River in the south. The bay has been extensively modified by dredging and filling. The bay is narrower and deeper than in its undredged, unfilled state. The surface area of the bay is now approximately 19 square miles. The width of the bay currently ranges from 0.25 miles to 2.5 miles. The depth of the bay currently ranges from more than 60 feet in some northern areas to only a few feet in much of the southern portion. Depths average less than 40 feet. The bay is home to

and/or is visited by deep draft commercial and military vessels as well as numerous commercial, military, and private small craft.

Freshwater inflow to the bay has been reduced by re-routing the San Diego River so that it no longer enters the bay and by construction of dams for water supply reservoirs on Sweetwater River and Otay River. The salinity of the bay is now generally similar to that of the ocean. In summer and early fall, the salinity of the southern part of the bay may be somewhat higher than that of the ocean. Immediately following storm events, the salinity of the bay in the vicinity of the mouths of rivers, creeks, and storm drains may be somewhat lower than that of the ocean.

The bay is located within the cities of San Diego, National City, Chula Vista, and Coronado.

Pueblo San Diego Hydrologic Unit (HU 908.00)

Pueblo San Diego Hydrologic Unit is a largely urbanized triangular-shaped area of about 60 square miles with no major stream system. It is bordered on the north by the watershed of the San Diego River and on the south by San Diego Bay and the watershed of the Sweetwater River. The Pueblo San Diego Hydrologic unit is located entirely within the city of San Diego. The unit is relatively dry with an average annual precipitation of less than 11 inches to 13 inches.

Sweetwater Hydrologic Unit (HU 909.00)

Sweetwater Hydrologic Unit is an elongated northeasterly trending area of about 230 square miles. Most of the HU drains to the Sweetwater River, on which Sweetwater Reservoir and Loveland Reservoir are located. The annual average precipitation varies from less than 11 inches at the San Diego Bay shoreline to about 35 inches inland. Sweetwater Marsh is located at the mouth of Sweetwater River where the river flows into San Diego Bay.

Otay Hydrologic Unit (HU 910.00)

Otay Hydrologic Unit is a club-shaped area of about 160 square miles. The major stream system traversing the area is the Otay River, on which the Upper and Lower Otay Reservoirs are located. The Lower Otay Reservoir is the terminus of the second San Diego Aqueduct. Major population centers include the City of Imperial Beach in the coastal area and the unincorporated community of Dulzura inland. The annual precipitation generally increases inland from the coast and ranges from less than 11 to 19 inches. The Otay River flows into the southernmost end of San Diego Bay. The Coronado Hydrologic Area, which comprises the westernmost portion of the unit, includes North Island Naval Air Station, the City of Coronado and the Silver Strand, which separates the southern portion of San Diego Bay from the ocean.

9. TIJUANA RIVER WATERSHED MANAGEMENT AREA**Tijuana Hydrologic Unit (HU 911.00)**

Tijuana Hydrologic Unit is a triangular-shaped area drained by Cottonwood and Campo creeks, which are tributaries to the Tijuana River. It covers an area of about 470 square miles and lies mainly in the mountain-valley section. Almost 75% of the area of the watershed is in Mexico.

Tijuana Estuary, at the mouth of the river, occupies approximately 2000 acres. It is generally open to the ocean. Most of the estuary can be classified as a saltwater marsh, but there are also a number of arms of open water.

Annual precipitation varies from less than 11 inches near the coast to more than 25 inches farther inland near Laguna Mountain. Runoff is captured by Morena Reservoir and Barrett Reservoir on Cottonwood Creek.

The portion of the watershed on the United States side of the international border is sparsely populated with the major population centers at San Ysidro and Campo. The population in the portion of the watershed on the Mexican side of the international border exceeds one million.

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 1
NPDES WASTE WATER PERMIT REISSUANCE

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	EXPIRES	REISSUE BACK-LOG?	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
MINOR	CAG919002	various	96-041	(GROUND WATER DEWATERING [EXCEPT FOR SAN DIEGO BAY] GENERAL PERMIT)	various	6/12/01	NO	REISSUE 4th quarter	x	x	x	x	REISSUE 4th quarter	various	various	IND
TBD	TBD	TBD	TBD	(MARINA GENERAL PERMIT)	various	N/A	NO	ISSUE (NEW) 4th quarter	x	x	x	x	REISSUE 4TH quarter	various	SAN JUAN, SAN LUIS REY RIVER, MISSION BAY & SAN DIEGO BAY	IND
TBD	TBD	TBD	TBD	(AQUARIA GENERAL PERMIT)	various	N/A	NO	ISSUE (NEW) TBD					various	SAN JUAN, SAN LUIS REY RIVER, MISSION BAY & SAN DIEGO BAY	IND	
MAJOR	CA0107611	9 000000117	95-107	ALISO WATER MANAGEMENT AGENCY	ALISO OCEAN OUTFALL	12/12/00	YES	REISSUE 3rd quarter	x	x	x	x	REISSUE 3rd quarter	901.13	SAN JUAN	POTW
MINOR	CA0109312	9 000000219	00-216	DANA POINT SHIPYARD	DANA POINT SHIPYARD	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	901.14	SAN JUAN	IND
MAJOR	CA0107417	9 000000175	00-013	SERRA	SERRA OCEAN OUTFALL	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	901.27	SAN JUAN	POTW
MAJOR	CA0001228	9 000000086	00-004	SCE	SONGS UNIT 1	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	901.51	SAN JUAN	IND
MAJOR	CA0108073	9 000000087	99-047	SCE	SONGS UNIT 2	8/11/04	NO	x	x	x	x	REISSUE 1st quarter	x	901.51	SAN JUAN	IND
MAJOR	CA0108181	9 000000088	99-048	SCE	SONGS UNIT 3	8/11/04	NO	x	x	x	x	REISSUE 1st quarter	x	901.51	SAN JUAN	IND
MINOR	CA0109011	9 000000452	00-018	STEIFEL DAIRY	STEIFEL DAIRY	04/12/05	NO	x	x	x	x	REISSUE 4th quarter	x	902.35	SANTA MARGARITA RIVER	IND
MINOR	CA0109321	9 000000239	00-216	WESSELINK, JULES	WESSELINK AND SON DAIRY	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	902.35	SANTA MARGARITA RIVER	IND
MAJOR	CA0109002	9 000000169	99-059	USMC BASE, CAMP PENDLETON	PLANT #13, TWIN LAKES	9/8/04	NO	x	x	x	x	REISSUE 1st quarter	x	902.11	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108979	9 000000162	99-056	USMC BASE, CAMP PENDLETON	PLANT #02, SAN LUIS REY	9/8/04	NO	x	x	x	x	REISSUE 1st quarter	x	902.11	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108987	9 000000163	99-057	USMC BASE, CAMP PENDLETON	PLANT #03, CHAPPO	9/8/04	NO	x	x	x	x	REISSUE 1st quarter	x	902.12	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108995	9 000000164	99-058	USMC BASE, CAMP PENDLETON	PLANT #08, SANTA MARGARITA	9/8/04	NO	x	x	x	x	REISSUE 1st quarter	x	902.12	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108961	9 000000161	99-055	USMC BASE, CAMP PENDLETON	PLANT #01, HEADQUARTERS	9/8/04	NO	x	x	x	x	REISSUE 1st quarter	x	902.13	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108821	9 000000601	96-054	RANCHO CA WD	SANTA ROSA WRF	11/13/01	NO	x	REISSUE 2nd quarter	x	x	x	x	902.32	SANTA MARGARITA RIVER	POTW
MINOR	CA0108391	9 000000436	00-034	MOUNTAIN WATER ICE COMPANY	OCEANSIDE ICE PLANT	3/8/05	NO	x	x	x	x	REISSUE 3rd quarter	x	903.11	SAN LUIS REY RIVER	IND
MINOR	CA0109304	9 000000111	00-215	OCEANSIDE MARINE CENTRE, INC	OCEANSIDE MARINE CENTRE, INC	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	903.11	SAN LUIS REY RIVER	IND
MINOR	CA0003565	9 000000020	00-002	MISSION LINEN SUPPLY, OCEANSIDE	MISSION LINEN SUPPLY	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	904.10	CARLSBAD	IND
MAJOR	CA0107433	9 000000146	00-011	OCEANSIDE, CITY OF, WTR UTIL DEPT	OCEANSIDE OCEAN OUTFALL	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	904.10	CARLSBAD	POTW
MAJOR	CA0108031	9 000000115	00-012	FALLBROOK PUBLIC UTILITY DIST	PLANT NOS 1 & 2 / OCEANSIDE OCEAN OUTFALL	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	904.10	CARLSBAD	POTW
MAJOR	CA0001350	9 000000092	00-003	CABRILLO POWER, LLC.	ENCINA POWER PLANT	2/9/05	NO	x	x	x	x	REISSUE 3rd quarter	x	904.31	CARLSBAD	IND
MAJOR	CA0107395	9 000000030	00-036	ENCINA WASTEWATER AUTHORITY	ENCINA OCEAN OUTFALL	4/12/05	NO	x	x	x	x	REISSUE 4th quarter	x	904.40	CARLSBAD	POTW

SDRWQCB
WATERSHED MANAGMENT APPROACH
APPENDIX B - SECTION 1
NPDES WASTE WATER PERMIT REISSUANCE

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	EXPIRES	REISSUE BACK-LOG?	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
MAJOR	CA0108944	9 000000833	98-010	ESCONDIDO, CITY OF	HALE AVE RESOURCE RECOVERY	9/9/03	NO	x	x	x	REISSUE 1st quarter	x	x	904.62	CARLSBAD	POTW
MAJOR	CA0107981	9 000000031	99-072	ESCONDIDO, CITY OF	HALE AVE WPCF / SAN ELIJO OCEAN OUTFALL	11/10/04	NO	x	x	x	REISSUE 2nd quarter	x	x	904.61	CARLSBAD	POTW
MAJOR	CA0107999	9 000000125	99-071	SAN ELIJO JOINT POWERS AUTHORITY	SAN ELIJO WPCF / SAN ELIJO OCEAN OUTFALL	11/10/04	NO	x	x	x	REISSUE 2nd quarter	x	x	904.61	CARLSBAD	POTW
MINOR	CA0109053	9 000000228	00-163	KONYN, FRANK J	KONYN, FRANK J DAIRY	11/08/05	NO	x	x	x	REISSUE 4th quarter	x	x	905.32	SAN DIEGUITO RIVER	IND
MINOR	TBD	9 000000198	TBD	VAN TOL, JOHN	JOHN VAN TOL DAIRY	TBD	NO	ISSUE (NEW) 4th quarter	x	x	x	x	REISSUE 4th quarter	905.41	SAN DIEGUITO RIVER	IND
MINOR	CA0107239	9 000000018	99-083	UNIVERSITY OF CA, SAN DIEGO	SCRIPPS INST OF OCEANOGRAPHY	11/10/04	NO	x	x	x	REISSUE 2nd quarter	x	x	906.30	MISSION BAY	IND
MINOR	CA0107450	9 000000267	00-015	CULLIGAN WATER CONDITION, INC	CULLIGAN WATER CONDITION, INC	2/9/05	NO	x	x	x	REISSUE 3rd quarter	x	x	906.30	MISSION BAY	IND
MINOR	CA0107336	9 000000083	00-025	SEA WORLD, INC	SEA WORLD	3/8/05	NO	x	x	x	REISSUE 3rd quarter	x	x	906.30	MISSION BAY	IND
MINOR	CA0109291	9 000000305	00-214	DRISCOLL MISSION BAY	DRISCOLL MISSION BAY BOATYARD	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	906.30	MISSION BAY	IND
MAJOR	CA0107492	9 000000053	98-060	PADRE DAM MWD	PADRE DAM WRF	6/9/03	NO	x	x	REISSUE 4th quarter	x	x	x	907.11	SAN DIEGO RIVER	POTW
MAJOR	CA0107409	9 000000275	95-106	SAN DIEGO, CITY OF, MWWDD	POINT LOMA OCEAN OUTFALL	12/12/00	YES	REISSUE 4th quarter	x	x	x	x	REISSUE 4th quarter	908.10	SAN DIEGO BAY	POTW
MINOR	CA0109096	9 000000474	00-210	KOEHLER KRAFT, INC.	KOEHLER KRAFT BOATYARD	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.10	SAN DIEGO BAY	IND
MINOR	CA0109118	9 000000344	00-212	SHELTER ISLAND BOATYARD	SHELTER ISLAND BOATYARD	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.10	SAN DIEGO BAY	IND
MINOR	CA0109100	9 000000112	00-211	NIELSEN BEAUMONT MARINE, INC	NIELSEN BEAUMONT MARINE, INC	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.10	SAN DIEGO BAY	IND
MINOR	CA0109061	9 000000484	00-207	DRISCOLL BOATWORKS	DRISCOLL CUSTOM BOATS	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.10	SAN DIEGO BAY	IND
MINOR	CA0109070	9 000000104	00-208	DRISCOLL, INC	DRISCOLL BOATWORKS WEST	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.10	SAN DIEGO BAY	IND
MINOR	CA0107891	9 000000293	00-061	SAN DIEGO UNIFIED PORT DISTRICT	FISH SORTING SLABS	5/10/05	NO	x	x	x	x	REISSUE 4th quarter	x	908.10	SAN DIEGO BAY	IND
MAJOR	CAG039001	9 000000066 9 000000137	97-036	(SHIPYARD GENERAL PERMIT - TTWQ 1)	NASSCO SW MARINE	10/15/02	NO	x	x	REISSUE 2nd quarter	x	x	x	908.21 & 908.22	SAN DIEGO BAY	IND
MINOR	CAG039002	9 000000400	97-037	(SHIPYARD GENERAL PERMIT - TTWQ 2)	CONTINENTAL MARITIME	10/15/02	NO	x	x	REISSUE 2nd quarter	x	x	x	908.22	SAN DIEGO BAY	IND
MINOR	CA0107867	9 000000283	98-053	US NAVY	NAVY GRAVING DOCK	8/12/03	NO	x	x	x	REISSUE 1st quarter	x	x	908.31	SAN DIEGO BAY	IND
TBD	TBD	TBD	TBD	US NAVY	SAN DIEGO BAY FACILITIES	N/A	NO	ISSUE (NEW) 4th quarter	x	x	x	x	REISSUE 4th quarter	908, 909 & 910	SAN DIEGO BAY	IND
MINOR	CA0109088	9 000000816	00-209	KNIGHT & CARVER, INC.	KNIGHT & CARVER BOATYARD	10/11/05	NO	REISSUE 2nd quarter	x	x	x	x	REISSUE 2nd quarter	908.32	SAN DIEGO BAY	IND
MINOR	CA0108952	9 000000858	99-030	SWEETWATER AUTHORITY	LOWER SWEETWATER RIVER BASIN GROUNDWATER DEMINERALIZATION PLANT	6/7/04	NO	x	x	x	REISSUE 4th quarter	x	x	909.12	SAN DIEGO BAY	IND
MAJOR	CA0001368	9 000000091	96-005	DUKE ENERGY, LLC.	SOUTH BAY POWER PLANT	11/13/01	NO	x	REISSUE 2nd quarter	x	x	x	x	910.20	SAN DIEGO BAY	IND

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 1
NPDES WASTE WATER PERMIT REISSUANCE

1/2/01

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	EXPIRES	REISSUE BACK-LOG?	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
MINOR	CAG919001	various	00-090	(GROUND WATER DEWATERING [SAN DIEGO BAY] GENERAL PERMIT)	various	6/14/05	NO	x	x	x	x	REISSUE 4th quarter	x	908, 909 & 910	SAN DIEGO BAY	IND
MAJOR	CA0109045	9 000000900	00-129	SAN DIEGO, CITY OF, MWWD	SOUTH BAY WRF / SOUTH BAY OCEAN OUTFALL	9/13/05	NO	ISSUE (NEW) 1st quarter	x	x	x	x	REISSUE 1st quarter	911.11	TIJUANA RIVER	POTW
MAJOR	CA0108928	9 000000732	96-050	INTERNATIONAL BOUNDARY & WATER COMMISSION	INTERNATIONAL WTP / SOUTH BAY OCEAN OUTFALL	11/13/01	NO	x	REISSUE 2nd quarter	x	x	x	x	911.11	TIJUANA RIVER	POTW
					Total # of existing permits: 47											
								13	3	3	3	24	17			
					# of existing major permits: 24											
								0	0	0	0	0	0			
					# of pending new permits: 4											
								5	0	0	0	0	0			

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 2
NPDES STORM WATER PERMIT REISSUANCE**

1/2/01

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	EXPIRATION DATE	REISSUE BACKLOG?	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	HU	WATERSHED MANAGEMENT AREA
MAJOR	CAS0108740	9 000000511	96-003	COUNTY OF ORANGE et al.	ORANGE COUNTY MS4	8/8/01	NO	x	REISSUE 1st quarter	x	x	x	x	901	SAN JUAN
MAJOR	CAS0108766	9 000000512	98-002	RIVERSIDE CO FC & WC DIST et al.	RIVERSIDE COUNTY MS4	11/30/03	NO	x	x	x	REISSUE 2nd quarter	x	x	901, 902 & 903	SAN JUAN, SANTA MARGARITA RIVER & SAN LUIS REY RIVER
MAJOR	CA0108758	9 000000510	90-042	COUNTY OF SAN DIEGO et al.	SAN DIEGO COUNTY MS4	7/16/95	YES	REISSUE 3rd quarter	x	x	x	x	REISSUE 3rd quarter	ALL	ALL
MAJOR	CAS029998	9 000000793	97-008	CALTRANS	CALTRANS MS4 / INDUSTRIAL / CONSTRUCTION	3/12/02	NO	x	REISSUE 3rd quarter (if not superseded by SWRCB statewide permit for Caltrans)	x	x	x	x	ALL	ALL
				Total # of existing SDRWQCB-issued storm water permits: 4			# of permits to be reissued in FY	1	2	0	1	0	1		

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 3
PRETREATMENT COMPLIANCE AUDITS AND INSPECTIONS**

1/2/01

NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	HU	WATERSHED MANAGEMENT AREA
CA0107611	9 000000117	95-107	ALISO WATER MANAGEMENT AGENCY	ALISO OCEAN OUTFALL	INSPECT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	AUDIT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	901.13	San Juan
CA0107417	9 000000175	00-013	SERRA	SERRA OCEAN OUTFALL	INSPECT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	AUDIT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	901.27	San Juan
CA0108821	9 000000601	96-054	RANCHO CALIFORNIA WATER DISTRICT	SANTA ROSA WRF	AUDIT 3rd quarter	INSPECT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	INSPECT 4th quarter	AUDIT 3rd quarter	902.32	Santa Margarita River
N/A	9 000000006	00-165	EASTERN MUNICIPAL WATER DISTRICT	TEMECULA VALLEY WRF	INSPECT 1st quarter	INSPECT 1st quarter	INSPECT 1st quarter	AUDIT 1st quarter	INSPECT 1st quarter	INSPECT 4th quarter	902.51	Santa Margarita River
CA0107433	9 000000146	00-011	OCEANSIDE, CITY OF, WTR UTIL DEP	OCEANSIDE OCEAN OUTFALL	INSPECT 3rd quarter	INSPECT 3rd quarter	INSPECT 3rd quarter	AUDIT 3rd quarter	INSPECT 3rd quarter	INSPECT 4th quarter	904.21	Carlsbad
CA0107611	9 000000117	00-012	FALLBROOK PUBLIC UTILITY DISTRICT	PLANT NOS 1 & 2 / OCEANSIDE OCEAN OUTFALL	(no requirement for pretreatment program)						904.21	Carlsbad
CA0107395	9 000000030	00-036	ENCINA WASTEWATER AUTHORITY	ENCINA OCEAN OUTFALL	INSPECT 1st quarter	INSPECT 1st quarter	INSPECT 1st quarter	INSPECT 1st quarter	AUDIT 1st quarter	INSPECT 4th quarter	904.40	Carlsbad
CA0107981 & CA0108944	9 000000031 & 9 000000833	99-072 & 98-010	ESCONDIDO, CITY OF	HALE AVE WPCF (& RESOURCE RECOVERY) / SAN ELIJO OCEAN OUTFALL	INSPECT 3rd quarter	INSPECT 3rd quarter	INSPECT 3rd quarter	AUDIT 3rd quarter	INSPECT 3rd quarter	INSPECT 4th quarter	904.61 & 904.62	Carlsbad
CA0107999	9 000000125	99-071	SAN ELIJO JOINT POWERS AUTH	SAN ELIJO WPCF / SAN ELIJO OCEAN OUTFALL	(no requirement for pretreatment program)						904.61	Carlsbad
CA0107409	9 000000275	95-106	SAN DIEGO, CITY OF, MWWD	POINT LOMA OCEAN OUTFALL	INSPECT 2nd quarter	INSPECT 2nd quarter	INSPECT 2nd quarter	INSPECT 2nd quarter	AUDIT 2nd quarter	INSPECT 4th quarter	908.10	San Diego Bay
CA0109045	9 000000900	00-129	SAN DIEGO, CITY OF, MWWD	SOUTH BAY WRF / SOUTH BAY OCEAN OUTFALL	TBD	TBD	TBD	TBD	TBD	TBD	911.11	Tijuana River
CA0108928	9 000000732	96-050	INTERNATIONAL BOUNDARY & WATER COMMISSION	INTERNATIONAL WTP / SOUTH BAY OCEAN OUTFALL	(no requirement for conventional pretreatment program; treatment plant service area is in Mexico; no audits or inspections will be conducted)						911.11	Tijuana River
			Total # of PT programs (not including IBWC or South Bay WRF): 8	# of audits in FY: # of inspections in FY:	1 7	0 8	0 8	5 3	2 6	1 7		

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 4
NPDES WASTEWATER PERMIT COMPLIANCE INSPECTIONS

1/2/01

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/07	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
TBD	TBD	TBD	TBD	(MARINA GENERAL PERMIT)	VARIOUS	none	3 each	various	SAN JUAN, SAN LUIS REY RIVER, MISSION BAY & SAN DIEGO BAY	IND				
TBD	TBD	TBD	TBD	(AQUARIA GENERAL PERMIT)	VARIOUS	TBD	TBD	TBD	TBD	TBD	TBD	various	SAN JUAN, SAN LUIS REY RIVER, MISSION BAY & SAN DIEGO BAY	IND
MINOR	CAG919002	9 000000682	??	Chevron	Chevron USA, Sta #9-1606	1	1	1	1	1	1	??	??	IND
MINOR	CAG919002	9 000000681	96-041	GEC Marconi, BAE systems	1370n San Marcos Blvd	1	1	1	1	1	1	??	??	IND
MINOR	CAG919002	9 000000882	96-041	Carlsbad MWD	Calavera Hills Offsite	1	1	1	1	1	1	??	??	IND
MINOR	CAG919002	9 000000878	??	City of San Diego	Sewer Pump Station #50, overflow	1	1	1	1	1	1	??	??	IND
MAJOR	CA0107611	9 000000117	95-107	ALISO WATER MANAGEMENT AGENCY	ALISO OCEAN OUTFALL	3	3	3	3	3	3	901.13	SAN JUAN	POTW
MINOR	CAG919002	9 000000905	96-041	EI Toro WD	Freeway Forcemain Replacement DW	1	1	1	1	1	1	901.13	SAN JUAN	IND
MINOR	CAG719001	9 000000219	00-216	DANA POINT SHIPYARD	DANA POINT SHIPYARD	3	3	3	3	3	3	901.14	SAN JUAN	IND
MAJOR	CA0107417	9 000000175	00-013	SERRA	SERRA OCEAN OUTFALL	3	3	3	3	3	3	901.27	SAN JUAN	POTW
MINOR	CAG919002	9 000000887	96-041	Mobil Oil Corp	Sta 18-372 Remed	1	1	1	1	1	1	901.27	SAN JUAN	IND
MAJOR	CA0001228	9 000000086	00-004	SCE	SONGS UNIT 1	3	3	3	3	3	3	901.51	SAN JUAN	IND
MAJOR	CA0108073	9 000000087	99-047	SCE	SONGS UNIT 2	3	3	3	3	3	3	901.51	SAN JUAN	IND
MAJOR	CA0108181	9 000000088	99-048	SCE	SONGS UNIT 3	3	3	3	3	3	3	901.51	SAN JUAN	IND
MAJOR	CA0109002	9 000000169	99-059	USMC BASE, CAMP PENDLETON	PLANT #13, TWIN LAKES	3	3	3	3	3	3	902.11	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108979	9 000000162	99-056	USMC BASE, CAMP PENDLETON	PLANT #02, SAN LUIS REY	3	3	3	3	3	3	902.11	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108987	9 000000163	99-057	USMC BASE, CAMP PENDLETON	PLANT #03, CHAPPO	3	3	3	3	3	3	902.12	SANTA MARGARITA RIVER	POTW
MAJOR	CA0108995	9 000000164	99-058	USMC BASE, CAMP PENDLETON	PLANT #08, SANTA MARGARITA	3	3	3	3	3	3	902.12	SANTA MARGARITA RIVER	POTW
MINOR	CAG919002	9 000000868	96-041	US Navy,	Basilone Bridge, Santa Margarita River	1	1	1	1	1	1	902.12	SANTA MARGARITA RIVER	IND
MAJOR	CA0108961	9 000000161	99-055	USMC BASE, CAMP PENDLETON	PLANT #01, HEADQUARTERS	3	3	3	3	3	3	902.13	SANTA MARGARITA RIVER	POTW
MINOR	CAG919002	9 000000897	96-041	Kinder Morgan Energy Partners-	Pendelton Pipeline Dwt	1	1	1	1	1	1	902.22	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000673	96-041	RANCHO CA WD	PRODUCTION WELL #143 DEWAT	1	1	1	1	1	1	902.30	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000808	96-041	RANCHO CA WD	Well #146	1	1	1	1	1	1	902.30	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000677	96-041	RANCHO CA WD	PRODUCTION WELL #135 DEWAT	1	1	1	1	1	1	902.31	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000597	96-041	RANCHO CA WD	PRODUCTION WELL #309 DEWAT	1	1	1	1	1	1	902.31	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000807	96-041	RANCHO CA WD	RCWD WATR PROD WELL#121 DEWATR	1	1	1	1	1	1	902.32	SANTA MARGARITA RIVER	IND
MAJOR	CA0108821	9 000000601	96-054	RANCHO CA WD	SANTA ROSA WRF	3	3	3	3	3	3	902.32	SANTA MARGARITA RIVER	POTW
MINOR	CAG919002	9 000000736	96-041	RANCHO CA WD	Well #159	1	1	1	1	1	1	902.32	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000842	96-041	RANCHO CA WD	RCWD, Gravity Drain Line	1	1	1	1	1	1	902.32	SANTA MARGARITA RIVER	IND
MINOR	CA0109011	9 000000452	00-018	STEIFEL DAIRY	STEIFEL DAIRY	3	3	3	3	3	3	902.35	SANTA MARGARITA RIVER	IND
MINOR	CA0109321	9 000000239	00-206	WESSELINK DAIRY	WESSELINK DAIRY	3	3	3	3	3	3	902.35	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000888	96-041	US Navy MCAS	Fuel Farm Tank Removal Dwt/Remed	1	1	1	1	1	1	902.43??	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000617	96-041	RANCHO CA WD	BUTTERFIELD STAGE PUMP STA DWT	1	1	1	1	1	1	902.50	SANTA MARGARITA RIVER	IND
MINOR	CAG919002	9 000000907	96-041	Rancho Cal WD-	Well No. 205 (Proj D0935)	1	1	1	1	1	1	902.52	SANTA MARGARITA RIVER	IND
MINOR	CA0108391	9 000000436	00-034	MOUNTAIN WATER ICE COMPANY	OCEANSIDE ICE PLANT	1	1	1	1	1	1	903.11	SAN LUIS REY RIVER	IND
MINOR	CA0109304	9 000000111	00-215	OCEANSIDE MARINE CENTRE, INC	OCEANSIDE MARINE CENTRE, INC	3	3	3	3	3	3	903.11	SAN LUIS REY RIVER	IND
MINOR	CAG919002	9 000000795	96-041	Southland Corp.	7-11 Store # 20342, Oceanside	1	1	1	1	1	1	903.11	SAN LUIS REY RIVER	IND
MINOR	CAG919002	9 000000914	96-041	City of Oceanside	Mission Ave Sewer Lift Sta Reloc Dwt	1	1	1	1	1	1	903.11	SAN LUIS REY RIVER	IND
MINOR	CA0003565	9 000000020	00-002	MISSION LINEN SUPPLY,OCEANSIDE	MISSION LINEN SUPPLY	1	1	1	1	1	1	904.10	CARLSBAD	IND
MAJOR	CA0107433	9 000000146	00-011	OCEANSIDE,CITY OF,WTR UTIL DEP	OCEANSIDE OCEAN OUTFALL	3	3	3	3	3	3	904.10	CARLSBAD	POTW
MAJOR	CA0108031	9 000000115	00-012	FALLBROOK PUBLIC UTILITY DIST	PLANT NOS 1 & 2 / OCEANSIDE OCEAN OUTFALL	3	3	3	3	3	3	904.10	CARLSBAD	POTW

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 4
NPDES WASTEWATER PERMIT COMPLIANCE INSPECTIONS

CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/07	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
MINOR	CAG919002	9 000000817	96-041	Nevada Investmnet	Sunbelt Rem., 1702 Oceanside Blvd.	1	1	1	1	1	1	904.10	CARLSBAD	IND
MINOR	CAG919002	9 000000889	96-041	Carlsbad MWD	Vista/Carlsbad Interceptor & Stm Drn	1	1	1	1	1	1	904.21	CARLSBAD	IND
MAJOR	CA0001350	9 000000092	00-003	CABRILLO POWER, LLC.	ENCINA POWER PLANT	3	3	3	3	3	3	904.31	CARLSBAD	IND
MAJOR	CA0107395	9 000000030	00-036	ENCINA WASTEWATER AUTHORITY	ENCINA OCEAN OUTFALL	3	3	3	3	3	3	904.40	CARLSBAD	POTW
MAJOR	CA0107981	9 000000031	99-072	ESCONDIDO, CITY OF	HALE AVE WPCF / SAN ELIJO OCEAN OUTFALL	3	3	3	3	3	3	904.61	CARLSBAD	POTW
MAJOR	CA0107999	9 000000125	99-071	SAN ELIJO JOINT POWERS AUTHORITY	SAN ELIJO WPCF / SAN ELIJO OCEAN OUTFALL	3	3	3	3	3	3	904.61	CARLSBAD	POTW
MINOR	CAG919002	9 000000603	96-041	SUNBELT MANAGEMENT COMPANY	EAST VALLEY PKWY, ESCON REMED	1	1	1	1	1	1	904.62	CARLSBAD	IND
MAJOR	CA0108944	9 000000833	98-010	ESCONDIDO, CITY OF	HALE AVE RESOURCE RECOVERY	3	3	3	3	3	3	904.62	CARLSBAD	POTW
MINOR	CAG919002	9 000000910	96-041	Southland Corporation	7-Eleven Loc 22894-Escondido	1	1	1	1	1	1	904.62	CARLSBAD	IND
MINOR	CA0109053	9 000000228	00-163	KONYN, FRANK J	FRANK J KONYN DAIRY	3	3	3	3	3	3	905.32	SAN DIEGUITO RIVER	IND
TBD	TBD	9 000000198	TBD	VAN TOL, JOHN	JOHN VAN TOL DAIRY	1	3	3	3	3	3	905.41	SAN DIEGUITO RIVER	IND
MINOR	CA0107450	9 000000267	00-015	CULLIGAN WATER CONDITION, INC	CULLIGAN WATER CONDITION, INC	1	1	1	1	1	1	906.30	MISSION BAY	IND
MINOR	CA0107336	9 000000083	00-025	SEA WORLD, INC	SEA WORLD	1	1	1	1	1	1	906.30	MISSION BAY	IND
MINOR	CA0107239	9 000000018	99-083	UNIVERSITY OF CA, SAN DIEGO	SCRIPPS INST OF OCEANOGRAPHY	1	1	1	1	1	1	906.30	MISSION BAY	IND
MINOR	CAG919002	9 000000588	00-090	City of San Diego	Promenade at Pacific Beach	1	1	1	1	1	1	906.30	MISSION BAY	IND
MINOR	CAG919002	9 000000596	96-041	MOBIL OIL CORP	MOBIL SS #18-F8W REMED	1	1	1	1	1	1	906.40	MISSION BAY	IND
MINOR	CA0109291	9 000000305	00-214	DRISCOLL, INC	DRISCOLL MISSION BAY	3	3	3	3	3	3	906.50	MISSION BAY	IND
MINOR	CAG919002	9 000000635	96-041	RESTRUCTURE PETROLEUM MRKTNG	FORMER EZ SERVE STA 100800 REM	1	1	1	1	1	1	907.??	SAN DIEGO RIVER	IND
MAJOR	CA0107492	9 000000053	98-060	PADRE DAM MWD	PADRE DAM WRF	3	3	3	3	3	3	907.11	SAN DIEGO RIVER	POTW
MINOR	CAG919002	9 000000855	96-041	HAZARD CENTER ASSOCIATES	HAZARD CTR DR EXT DEWATER	1	1	1	1	1	1	907.11	SAN DIEGO RIVER	IND
MINOR	CAG919002	9 000000506	96-041	SFPP, L.P.	MISSION VALLEY TERMINAL	1	1	1	1	1	1	907.11	SAN DIEGO RIVER	IND
MINOR	CAG919002	9 000000896	96-041	City of San Diego	Hazard Center Drive Exten-Perm. Dwt	1	1	1	1	1	1	907.11	SAN DIEGO RIVER	IND
MINOR	CAG919002	9 000000904	96-041	Southland Corporation	7 -Eleven Loc. 20611-Santee	1	1	1	1	1	1	907.12	SAN DIEGO RIVER	IND
MINOR	CAG919002	9 000000903	96-041	Helix Water District	Flume Replacement Dwt-El Cajon	1	1	1	1	1	1	907.13	SAN DIEGO RIVER	IND
MINOR	CAG919002	9 000000608	96-041	ZANDS GROUNDWATER REMED / DW	725 E BRADLEY, EL CAJON REMED	1	1	1	1	1	1	907.15	SAN DIEGO RIVER	IND
MINOR	CA0109096	9 000000474	00-210	KOEHLER KRAFT, INC.	KOEHLER KRAFT BOATYARD	3	3	3	3	3	3	908.10	SAN DIEGO BAY	IND
MINOR	CA0109118	9 000000344	00-212	SHELTER ISLAND BOATYARD	SHELTER ISLAND BOATYARD	3	3	3	3	3	3	908.10	SAN DIEGO BAY	IND
MINOR	CA0109100	9 000000112	00-211	NIELSEN BEAUMONT MARINE, INC	NIELSEN BEAUMONT MARINE, INC	3	3	3	3	3	3	908.10	SAN DIEGO BAY	IND
MINOR	CA0109061	9 000000484	00-207	DRISCOLL BOATWORKS	DRISCOLL CUSTOM BOATS	3	3	3	3	3	3	908.10	SAN DIEGO BAY	IND
MINOR	CA0109070	9 000000104	00-208	DRISCOLL, INC	DRISCOLL BOATWORKS WEST	3	3	3	3	3	3	908.10	SAN DIEGO BAY	IND
MINOR	CA0107891	9 000000293	00-061	SAN DIEGO UNIFIED PORT DISTRICT	FISH SORTING SLABS	1	1	1	1	1	1	908.10	SAN DIEGO BAY	IND
MAJOR	CA0107409	9 000000275	95-106	SAN DIEGO, CITY OF, MWWD	POINT LOMA OCEAN OUTFALL	3	3	3	3	3	3	908.10	SAN DIEGO BAY	POTW
MINOR	CAG919001	9 000000329	00-090	SAN DIEGO UNIFIED PORT DISTRICT	SAN DIEGO CONVENTION CTR DEWAT	1	1	1	1	1	1	908.21	SAN DIEGO BAY	IND
MINOR	CAG919001	9 000000405	00-090	PACIFIC MARKET INVESTMENT CO	EMBASSY SUITES HOTEL DEWATER	1	1	1	1	1	1	908.21	SAN DIEGO BAY	IND
MINOR	CAG919001	9 000000469	00-090	MORLIN MANAGEMENT CORPORATION	GREAT AMERICAN PLAZA DEWATER	1	1	1	1	1	1	908.21	SAN DIEGO BAY	IND
MINOR	CAG039002	9 000000400	97-037	CONTINENTAL MARITIME IND, INC	CONTINENTAL MARITIME SHIPYARD	3	3	3	3	3	3	908.22	SAN DIEGO BAY	IND
MAJOR	CAG039001	9 000000137	97-036	SOUTHWEST MARINE, INC	SOUTHWEST MARINE SHIPYARD	3	3	3	3	3	3	908.22	SAN DIEGO BAY	IND
MAJOR	CAG039001	9 000000066	97-036	NATIONAL STEEL & SHIPBUILDING	NASSCO SHIPYARD	3	3	3	3	3	3	908.22	SAN DIEGO BAY	IND

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WATERSHED MANAGEMENT APPROACH
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NPDES WASTEWATER PERMIT COMPLIANCE INSPECTIONS

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CLASS	NPDES NO.	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/07	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
MINOR	CA0107867	9 00000283	98-053	US NAVY	NAVY PUBLIC WRK GRAVING DOCK	3	3	3	3	3	3	908.31	SAN DIEGO BAY	IND
TBD	TBD	TBD	TBD	US NAVY	SAN DIEGO BAY FACILITIES	1	3	3	3	3	3	908, 909 & 910	SAN DIEGO BAY	IND
MINOR	CA0109088	9 00000816	00-209	KNIGHT & CARVER, INC.	KNIGHT & CARVER BOATYARD	3	3	3	3	3	3	908.32	SAN DIEGO BAY	IND
MINOR	CA0108952	9 00000858	99-030	SWEETWATER AUTHORITY	LWR SWEETWATER RVR BSN GW DEMIN PLNT	1	1	1	1	1	1	909.12	SAN DIEGO BAY	IND
MINOR	CA0109126	9 00000481	00-213	SOUTH BAY BOATYARD, INC.	SOUTH BAY BOATYARD	3	3	3	3	3	3	909.12	SAN DIEGO BAY	IND
MINOR	CAG919002	9 00000891	00-090	San Diego County Water Auth-	Pipeline 3 Relocation	1	1	1	1	1	1	909.12	SAN DIEGO BAY	IND
MINOR	CAG919002	9 00000734	00-090	City of Coronado	SW Quadrant Strm Drain Improv	1	1	1	1	1	1	910.10	SAN DIEGO BAY	IND
MINOR	CAG919002	9 00000881	00-090	Jim Rodolph Residence	Construction Dewatering	1	1	1	1	1	1	910.10	SAN DIEGO BAY	IND
MINOR	CAG919002	9 00000892	00-090	City of San Diego	Grove Ave Pump Station Dwt	1	1	1	1	1	1	910.10	SAN DIEGO BAY	IND
MAJOR	CA0001368	9 00000091	96-005	DUKE ENERGY, LLC.	SOUTH BAY POWER PLANT	3	3	3	3	3	3	910.20	SAN DIEGO BAY	IND
MAJOR	CA0109045	9 00000900	00-129	SAN DIEGO, CITY OF, MWWD	SOUTH BAY WRF / SOUTH BAY OCEAN OUTFALL	3	3	3	3	3	3	901.11	TIJUANA RIVER	POTW
MAJOR	CA0108928	9 00000732	96-050	INT'L BOUNDARY & WATER COMMIS	INTERNATIONAL WTP / SOUTH BAY OCEAN OUTFALL	3	3	3	3	3	3	901.11	TIJUANA RIVER	POTW
MINOR	CAG919002	9 00000741	96-041	Tijuana Valley WD	TJ River Valley Aquifer Test	1	1	1	1	1	1	911.11	TIJUANA RIVER	IND
MINOR	CAG919002	9 00000895	96-041	City of San Diego	So. Bay Recl. Sewer Pump Sta & Force	1	1	1	1	1	1	911.11	TIJUANA RIVER	IND
MINOR	CAG919002	9 00000865	96-041	City of San Diego	Hollister Street Bridge	1	1	1	1	1	1	911.00	TIJUANA RIVER	IND
MINOR	CAG990002	9000U000007	SB 96-012	ENVIRONMENTAL RESOLUTIONS, INC	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
MINOR	CAG990002	9000U000017	SB 96-012	GTE CALIFORNIA, INC	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
MINOR	CAG990002	9000U000042	SB 96-012	PACBELL	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
MINOR	CAG990002	9000U000028	SB 96-012	SCE	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
MINOR	CAG990002	9000U000021	SB 96-012	SDG&E	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
MINOR	CAG990002	9000U000056	SB 96-012	SOUTHERN CALIFORNIA GAS CO	UTILITY VAULT DISCHARGES	1 each	various	various	IND					
					Total # of facilities (excluding utility vaults and facilities to be covered by pending permits): 90									
					# of major facilities: 25									

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WATERSHED MANAGEMENT APPROACH
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NPDES STORM WATER PERMIT COMPLIANCE INSPECTIONS

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DISCHARGER TYPE	NUMBER OF PERMITTEES OR CO-PERMITTEES	INSP SCHED FOR FY 00-01	INSP SCHED FOR FY 01-02	INSP SCHED FOR FY 02-03	INSP SCHED FOR FY 03-04	INSP SCHED FOR FY 04-05	INSP SCHED FOR FY 05-06	HU	WATERSHED MANAGEMENT AREA
Municipal	37	37	37	37	37	37	37	all	all
Industrial	~500 filers (+~700 non-filers)	200	300	400	500	600	600	all	all
Construction	~1200	400	600	800	1000	1200	1200	all	all
Total #:	~1700 (+~700 non-filers)	637	937	1237	1537	1837	1837		

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	DATE OF ADOPTION OR LAST REVIEW	ACTION	REVIEW BACK-LOG?	COMPLETION SCHEDULED		HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
								FY	QUARTER			
2	various	96-004	SEWAGE SPILL GENERAL WDR	various	05/09/96	UPDATE	NO	01/02	4	various	various	POTW
3	various	96-032	DREDGING GENERAL WDR	various	05/09/96	UPDATE	NO	01/02	4	various	various	WS-N&S
2	9 000000541	97-052	SOUTH ORANGE CO RECL AUTH	various	10/15/97	UPDATE	NO	02/03	4	901.xx	San Juan	POTW
3	9 000000140	95-056	EL TORO MATERIAL COMPANY	GLASS CANYON FACILITY	04/13/95	UPDATE	NO	03/04	4	901.13	San Juan	IND
2	9 000000073	93-047	ORANGE CO, PROBATION DEPT	JOPLIN YOUTH CENTER	06/21/93	UPDATE	NO	03/04	4	901.20	San Juan	POTW
2	9 000000075	94-046	ORANGE CO, PROBATION DEPT	LOS PINOS FORESTRY CAMP	04/14/94	UPDATE	NO	04/05	4	901.20	San Juan	POTW
3	9 000000079	88-055	OGLEBAY NORTON INDUSTRIAL SAND	MISSION VIEJO SAND PLANT	06/06/88	UPDATE	NO	03/04	4	901.20	San Juan	IND
3	9 000000131	88-063	PROGRESSIVE MANAGEMENT	ORTEGA OAKS CAMPGROUND	06/06/88	UPDATE	NO	03/04	4	901.20	San Juan	WS-N
2	9 000000290	91-050	SAN CLEMENTE, CITY OF	SAN CLEMENTE WRP	05/20/91	UPDATE	NO	01/02	4	901.30	San Juan	POTW
2	9 000000034	94-078	TRW, SYSTEMS GROUP	TRW SPACE TECHNOLOGY LABS	10/13/94	UPDATE	NO	04/05	4	901.40	San Juan	WS-N
2	9 000000792	97-013	USMC BASE, CAMP PENDLETON	PLANT #s 10 & 11	09/17/97	UPDATE	NO	02/03	4	901.50	San Juan	POTW
2	9 000000670	98-004	USMC BASE, CAMP PENDLETON	PLANT #9	10/14/98	UPDATE	NO	03/04	4	901.52	San Juan	POTW
3	9 000000024	95-086	SUPERIOR READY MIX CONCRETE	FALLBROOK PLANT	06/08/95	UPDATE	NO	10/11	4	902.13	Santa Margarita River	IND
2	9 000000082	93-069	KATHLEEN K. MORRIS	OAK CREST MOBILE ESTATES, INC	09/20/93	UPDATE	NO	03/04	4	902.21	Santa Margarita River	WS-N
3	9 000000027	94-069	FALLBROOK KAMP RETREAT	FALLBROOK KAMP RETREAT	05/12/94	UPDATE	NO	09/10	4	902.21	Santa Margarita River	WS-N
3	9 000000064	85-029	CALTRANS DISTRICT 11	RAINBOW TRUCK WGH & INSP FACIL	11/08/00	UPDATE	NO	00/01	4	902.23	Santa Margarita River	IND
3	9 000000463	92-056	CALTRANS DISTRICT 11	TEMECULA TRUCK INSPECT FACIL	08/17/92	UPDATE	NO	07/08	4	902.23	Santa Margarita River	IND
3	9 000000459	89-040	MCGRAW, JOHN	SINGLE FAMILY RESIDENCE	05/22/89	UPDATE	NO	04/05	4	902.32	Santa Margarita River	WS-N
1	9 0000564S1	94-092	RANCHO CA WD	JOAQUIN RANCH & SANTA ROSA STPs	11/10/99	UPDATE	NO	04/05	4	902.32	Santa Margarita River	POTW
3	9 000000287	95-083	J & H ASSET PROPERTY MNGMNT	WARM SPRINGS MOBIL HOME & RV PK	06/08/95	UPDATE	NO	10/11	4	902.32	Santa Margarita River	WS-N
3	9 000000568	93-045	BIO GRO SYSTEMS, INC	SLUDGE MANAGEMENT UNIT	04/19/93	UPDATE	NO	08/09	4	902.33	Santa Margarita River	WS-N
3	9 000000658	96-008	SOMERS, JEAN	CHANNEL CATS RV PARK	02/08/96	UPDATE	NO	11/12	4	902.33	Santa Margarita River	WS-N
3	9 000000037	83-015	NORTH AMERICAN INDIAN MISSIONS INC.	BUFFALO VALLEY CAMPGROUND	04/18/83	UPDATE	NO	03/04	4	902.40	Santa Margarita River	WS-N
3	9 000000008	93-126	CALLAWAY VINEYARD & WINERY	CALLAWAY VINEYARD & WINERY	12/20/93	UPDATE	NO	08/09	4	902.42	Santa Margarita River	WS-N
3	9 000000052	93-125	POOLE PROPERTIES, INC	MOUNT PALOMAR WINERY	12/20/93	UPDATE	NO	08/09	4	902.42	Santa Margarita River	WS-N
3	9 000000195	95-018	RIVERSIDE CO, REGION PARK AUTH	SKINNER LAKE RECREATION AREA	02/09/95	UPDATE	NO	10/11	4	902.42	Santa Margarita River	WS-N
3	9 000000105	88-024	INDIAN OAKS TRAILER RANCH	INDIAN OAKS TRAILER RANCH	03/14/88	UPDATE	NO	03/04	4	902.43	Santa Margarita River	WS-N
3	9 000000038	95-084	TUCALOTA SPRINGS RV PARK, INC	TUCALOTA SPRINGS RV PARK, INC	06/08/95	UPDATE	NO	10/11	4	902.44	Santa Margarita River	WS-N
2	9 000000006	94-097	EASTERN MWD	TEMECULA VALLEY RWRP	08/11/94	UPDATE	NO	04/05	4	902.51	Santa Margarita River	POTW
3	9 000000669	95-046	NEW OWL ROCK PRODUCTS	WILSON CREEK SAND MINE	04/13/95	UPDATE	NO	09/10	4	902.61	Santa Margarita River	IND
3	9 000000116	94-068	TUREL FAMILY TRUST	OAK SPRING RV RESORT, LLC	05/12/94	UPDATE	NO	09/10	4	902.63	Santa Margarita River	WS-N
3	9 000000040	95-015	ANZA PINES MOBILE HOME PARK	ANZA PINES MOBILE HOME PARK	02/09/95	UPDATE	NO	10/11	4	902.70	Santa Margarita River	WS-N
3	9 000000864	98-084	KAMP ANZA, LLC	KAMP ANZA RV RESORT	10/14/98	UPDATE	NO	08/09	4	902.70	Santa Margarita River	WS-N
3	9 000000330	94-002	COWBOY COUNTRY RV PARK	COWBOY COUNTRY RV PARK	03/10/94	UPDATE	NO	09/10	4	902.71	Santa Margarita River	WS-N
3	9 000000057	88-044	VAIL LAKE, LLC	BUTTERFIELD COUNTRY RV RESORT	03/14/88	UPDATE	NO	03/04	4	902.81	Santa Margarita River	WS-N
3	9 000000232	93-043	WOODCHUCK, INC	WOODCHUCK CAMPGROUND	10/18/93	UPDATE	NO	03/04	4	902.81	Santa Margarita River	WS-N
3	9 000000102	94-048	JOJOBA HILLS SKP RESORT, INC	SKP EDUCATIONAL RESORT OF S CA	04/14/94	UPDATE	NO	09/10	4	902.84	Santa Margarita River	WS-N
3	9 000000323	85-028	OUTDOOR RESORTS RANCHO CA	OUTDOOR RESORTS RANCHO CA	03/04/85	UPDATE	NO	04/05	4	902.84	Santa Margarita River	WS-N
3	9 000000485	91-011	US ARMY CORPS OF ENGINEERS	PHASE 2 SAN LUIS REY RIVER FLOOD CONTROL PROJECT	01/28/91	UPDATE	NO	07/08	4	903.11	San Luis Rey River	WS-N
2	9 000000645	00-045	USMC BASE, CAMP PENDLETON	PLANT #2, SAN LUIS REY	05/10/00	UPDATE	NO	04/05	4	903.11	San Luis Rey River	POTW
2	9 000000351	93-007	OCEANSIDE,CITY OF,WTR UTIL DEP	SAN LUIS REY STP LAND DISPOSAL	12/20/93	UPDATE	NO	03/04	4	903.11	San Luis Rey River	POTW
3	9 000000282	86-024	PRINCE OF PEACE ABBEY	PRINCE OF PEACE ABBEY	03/24/86	UPDATE	NO	01/02	4	903.11	San Luis Rey River	WS-N
3	9 000000718	96-011	USMC BASE, CAMP PENDLETON	DEL MAR BOAT BASIN DREDGING	02/08/96	UPDATE	NO	06/07	4	903.11	San Luis Rey River	WS-N
2	9 000000395	91-039	FALLBROOK PUBLIC UTILITIES DIST.	PLANTS 1 & 2 RECLAMATION	05/20/91	UPDATE	NO	00/01	4	903.12	San Luis Rey River	POTW
2	9 000000005	94-005	ALL SEASONS CAMPGROUND	ALL SEASONS CAMPGROUND	02/10/94	UPDATE	NO	04/05	4	903.12	San Luis Rey River	WS-N
2	9 000000236	95-032	VALLEY CENTER MWD	LOWER MOOSA CANYON RECL FACIL	02/09/95	UPDATE	NO	05/06	4	903.12	San Luis Rey River	POTW
3	9 000000301	86-032	COLOR SPOT FOLIAGE, INC	COLOR SPOT FOLIAGE, INC	06/16/86	UPDATE	NO	01/02	4	903.12	San Luis Rey River	WS-N
3	9 000000249	94-018	HARRIS, STEVEN AND SUSAN	WOODS VALLEY KAMPGROUND	03/10/94	UPDATE	NO	09/10	4	903.12	San Luis Rey River	WS-N
3	9 000000318	94-021	DRUMM, FRED AND MARIE	CHAMPAGNE LAKES RV RESORT	03/10/94	UPDATE	NO	09/10	4	903.13	San Luis Rey River	WS-N
2	9 000000256	95-013	KONYN, JOHN	JOHN KONYN AND SON DAIRY	02/09/95	UPDATE	NO	04/05	3	903.14	San Luis Rey River	IND

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WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 6
NON-CHAPTER 15 WDR UPDATE

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	DATE OF ADOPTION OR LAST REVIEW	ACTION	REVIEW BACK-LOG?	COMPLETION SCHEDULED		HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
								FY	QUARTER			
2	9 00000107	93-027	LILAC ENTERPRISES, INC	HIDEAWAY LAKE M.E. S.T.P.	06/21/93	UPDATE	NO	03/04	4	903.14	San Luis Rey River	WS -N
2	9 000000830	98-009	VALLEY CENTER MWD	WOODS VALLEY RANCH	08/12/98	UPDATE	NO	08/09	4	903.14	San Luis Rey River	POTW
3	9 000000210	94-074	LILAC OAKS CAMPGROUND	LILAC OAKS CAMPGROUND	06/09/94	UPDATE	NO	09/10	4	903.14	San Luis Rey River	WS -N
2	9 000000366	95-014	VERBOOM, PETE	PETE VERBOOM DAIRY #1	05/16/95	UPDATE	NO	05/06	4	903.20	San Luis Rey River	IND
2	9 000000533	95-020	CA DEPT OF FORESTRY	RAINBOW CONSERVATION CAMP	02/09/95	UPDATE	NO	05/06	4	903.21	San Luis Rey River	WS -N
2	9 000000068	93-001	RAINBOW MWD	PLANT B, PALA MESA VILLAGE	02/01/93	UPDATE	NO	03/04	4	903.21	San Luis Rey River	POTW
2	9 000000205	95-065	VERBOOM, PETE	PETE VERBOOM DAIRY #2	05/16/95	UPDATE	NO	05/06	4	903.21	San Luis Rey River	IND
3	9 000000255	94-062	CALMAT CO.	PALA PRODUCTION PLANT	05/12/94	UPDATE	NO	08/09	4	903.21	San Luis Rey River	IND
3	9 000000356	94-033	SOUTH COAST MATERIAL	PALA PLANT	05/12/94	UPDATE	NO	08/09	4	903.21	San Luis Rey River	IND
2	9 000000145	93-046	PAUMA VALLEY COMM SERVICE DIS	PAUMA VALLEY TREATMENT PLANT	04/19/93	UPDATE	NO	09/10	4	903.22	San Luis Rey River	POTW
2	9 000000223	93-029	VALLEY CENTER MWD	SKYLINE RANCH COUNTRY CLUB	09/20/93	UPDATE	NO	03/04	4	903.22	San Luis Rey River	POTW
3	9 000000132	94-039	OAK KNOLL CAMPGROUND	OAK KNOLL CAMPGROUND	05/12/94	UPDATE	NO	09/10	4	903.22	San Luis Rey River	WS -N
3	9 000000072	94-150	PAUMA VALLEY INVESTMENT TRUST	RANCHO CORRIDO TRAILER PARK	11/10/94	UPDATE	NO	09/10	4	903.22	San Luis Rey River	WS -N
3	9 000000096	94-003	SOCIN, AL	LAKE HENSHAW RESORT	02/10/94	UPDATE	NO	09/10	4	903.23	San Luis Rey River	WS -N
2	9 000000033	93-012	CA DEPT OF FORESTRY	PUERTA LA CRUZ CONSERV CAMP	02/01/93	UPDATE	NO	03/04	4	903.31	San Luis Rey River	WS -N
2	9 000000235	93-011	US NAVY	S.E.R.E. CAMP WARNER SPRINGS	02/01/93	UPDATE	NO	03/04	4	903.31	San Luis Rey River	WS -N
2	9 000000262	93-013	WARNER DEVELOPMENT COMPANY	WARNER SPRINGS RANCH	02/01/93	UPDATE	NO	03/04	4	903.31	San Luis Rey River	WS -N
2	9 000000176	93-014	WARNER SPRINGS ESTATES	WARNER SPRINGS MOBILE ESTATES	03/15/93	UPDATE	NO	03/04	4	903.31	San Luis Rey River	WS -N
3	9 000000312	88-037	PALOMAR TRANSIT MIX COMPANY	OCEANSIDE CONCRETE BATCH PLNT	03/25/88	UPDATE	NO	02/03	3	904.10	Carlsbad	IND
3	9 000000409	86-041	CALTRANS DISTRICT 11	FALLBROOK SD WATER REUSE	05/05/86	UPDATE	NO	01/02	4	904.21	Carlsbad	POTW
3	9 000000357	88-067	HANSON AGGREGATES	CARLSBAD PLANT	06/06/88	UPDATE	NO	02/03	4	904.21	Carlsbad	IND
3	9 000000302	98-200	CARLSBAD MWD	LEUCADIA CWD & VALLECITOS WD RECL WATER PURVEYOR	12/16/98	UPDATE	NO	13/14	4	904.21	Carlsbad	POTW
3	9 000000242	82-003	DAON CORPORATION	BUENA SD, WATER REUSE	01/25/82	UPDATE	YES	00/01	4	904.21	Carlsbad	POTW
3	9 000000241	94-023	VISTA IRRIGATION DISTRICT	BUENA SD, RECLAIMED WATER PURVEYOR	02/10/94	UPDATE	NO	01/02	4	904.21	Carlsbad	POTW
2	9 000000277	93-082	BUENA SANITARY DISTRICT	SHADOWRIDGE WRP	09/20/93	UPDATE	NO	03/04	4	904.31	Carlsbad	POTW
3	9 000000266	86-102	CARLSBAD RACEWAY CORPORATION	CARLSBAD RACEWAY	12/08/86	UPDATE	NO	00/01	3	904.31	Carlsbad	IND
3	9 000000230	93-124	LA COSTA GOLF COURSE	VALLECITOS WD WATER REUSE	12/20/93	UPDATE	NO	08/09	4	904.31	Carlsbad	POTW
3	9 000000023	88-038	SUPERIOR READY MIX CONCRETE	VISTA PLANT	04/25/88	UPDATE	NO	02/03	3	904.31	Carlsbad	IND
2	9 000000540	91-078	ENCINA WASTEWATER AUTHORITY	WATER RECLAMATION PROJECT	10/28/91	UPDATE	NO	01/02	4	904.40	Carlsbad	POTW
2	9 000000206	93-041	LEUCADIA CWD	GAFNER WATER RECLAMATION FACIL	12/20/93	UPDATE	NO	03/04	4	904.51	Carlsbad	POTW
2	9 000000592	93-070	ESCONDIDO, CITY OF	HALE AVE RESOURCE RECOVERY	06/21/93	UPDATE	NO	03/04	4	904.52	Carlsbad	POTW
2	9 000000211	94-138	HOLLANDIA DAIRY	HOLLANDIA DAIRY	12/08/94	UPDATE	NO	04/05	2	904.52	Carlsbad	IND
2	9 000000247	93-023	VALLECITOS WD	MEADOWLARK WRP	03/15/93	UPDATE	NO	03/04	4	904.52	Carlsbad	POTW
2	9 000000209	94-133	VANDER WOUDE, SIMON	SIMON VANDER WOUDE DAIRY	10/13/94	UPDATE	NO	04/05	2	904.53	Carlsbad	IND
2	9 000000216	84-029	RANCHO CIELO SD	RANCHO CIELO SD TREATMENT PLT	06/04/84	UPDATE	NO	03/04	4	904.61	Carlsbad	POTW
2	9 000000218	94-129	DE RAADT, JAKE	EDENVALE DAIRY	10/13/94	UPDATE	NO	04/05	2	904.62	Carlsbad	IND
2	9 000000259	94-130	DE RAADT, JOHN & JOANNE	DE RAADT DAIRY	12/08/94	UPDATE	NO	04/05	2	904.62	Carlsbad	IND
2	9 000000035	94-016	MURAT, JOSEPH	ELFIN FOREST RANCH MHP	03/10/94	UPDATE	NO	04/05	4	904.62	Carlsbad	WS -N
3	9 000000320	88-033	GENGER, RICHARD	HARMONY ROCK PRODUCTS PLANT	03/25/88	UPDATE	NO	02/03	3	904.62	Carlsbad	IND
3	9 000000294	88-066	PALOMAR TRANSIT MIX COMPANY	ESCONDIDO CONCRETE BATCHING PL	06/06/88	UPDATE	NO	02/03	4	904.62	Carlsbad	IND
3	9 000000098	94-012	POTTS, IVAN AND ADELE	IVY DEL TRAILER PARK	02/10/94	UPDATE	NO	04/05	4	904.62	Carlsbad	WS -N
3	9 000000358	94-034	SIM J HARRIS COMPANY	PRE MIX CONCRETE, ESCONDIDO PL	05/12/94	UPDATE	NO	08/09	4	904.62	Carlsbad	IND
3	9 000000025	88-075	SUPERIOR READY MIX CONCRETE	ESCONDIDO CONCRETE BATCH PLANT	06/24/88	UPDATE	NO	02/03	4	904.62	Carlsbad	IND
3	9 000000110	88-064	OAKVALE PARK	OAKVALE PARK	06/06/88	UPDATE	NO	03/04	4	904.63	Carlsbad	WS -N
2	9 000000571	00-010	SAN ELIJO JOINT POWERS AUTH	SAN ELIJO WPCF RECLAMATION	03/08/00	UPDATE	NO	09/10	4	904 & 905	Carlsbad & San Dieguito	POTW
2	9 000000257	93-005	FAIRBANKS RANCH COMM SERV DIST	FAIRBANKS RANCH WPCF	02/01/93	UPDATE	NO	03/04	4	905.11	San Dieguito River	POTW
2	9 000000177	92-004	RANCHO SANTA FE COMM SERV DIST	RANCHO SANTA FE SAN DIST PLANT	05/18/92	UPDATE	NO	02/03	4	905.11	San Dieguito River	POTW
TBD	TBD	TBD	RANCHO SANTA FE COMM SERV DIST	MASTER RECLAMATION WDR / WRR	N/A	ISSUE	NO	00/01	4	905.??	San Dieguito River	POTW
2	9 000000157	94-080	WHISPERING PALMS COMM SERV DIS	WHISPERING PALMS WPCF	06/09/94	UPDATE	NO	04/05	4	905.11	San Dieguito River	POTW

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	DATE OF ADOPTION OR LAST REVIEW	ACTION	REVIEW BACK-LOG?	COMPLETION SCHEDULED		HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
								FY	QUARTER			
3	9 00000304	95-016	COAST SAND COMPANY, INC	COAST SAND COMPANY, INC	02/09/95	UPDATE	NO	09/10	3	905.11	San Dieguito River	IND
2	9 00000371	85-040	OLIVENHAIN MWD	4-S RANCH WPCF	06/10/85	UPDATE	NO	10/11	4	905.12	San Dieguito River	POTW
3	9 00000059	87-100	ORFILA VINEYARD, INC	ORFILA VINEYARD	06/15/87	UPDATE	NO	02/03	4	905.20	San Dieguito River	WS-S??
2	9 00000432	90-016	SAN DIEGO, CITY OF, MWWD	SAN PASQUAL WRF	01/29/90	UPDATE	NO	00/01	4	905.21	San Dieguito River	POTW
2	9 00000336	94-004	SAN DIEGO, COUNTY OF	SAN PASQUAL ACADEMY	02/10/94	UPDATE	NO	04/05	4	905.30	San Dieguito River	WS-S
2	9 00000246	99-004	SAN DIEGO, ZOOLOGICAL SOCIETY	SAN PASQUAL WILD ANIMAL PK STP	03/10/99	UPDATE	NO	08/09	4	905.32	San Dieguito River	POTW
2	9 00000202	94-126	VERGER, BERT	BERT VERGER DAIRY	10/13/94	UPDATE	NO	04/05	2	905.32	San Dieguito River	IND
1	9 00000077	00-177	RAMONA MWD	RAMONA WWTP	09/13/00	UPDATE	NO	05/06	4	905.41	San Dieguito River	POTW
2	9 00000036	93-034	OAK TREE RANCH, INC	OAK TREE RANCH INN	03/15/93	UPDATE	NO	03/04	4	905.41	San Dieguito River	WS-S
2	9 00000198	94-128	VAN TOL, JOHN	JOHN VAN TOL DAIRY	10/13/94	RESCIND	NO	99/00	4	905.41	San Dieguito River	IND
2	9 00000197	94-127	VANDER WOUDE, WILLIAM	VALLEY VIEW DAIRY	11/10/94	UPDATE	NO	04/05	2	905.41	San Dieguito River	IND
3	9 00000187	86-022	CRAFTSTONES	GEMSTONES PROCESSING PLANT	03/24/86	UPDATE	NO	00/01	3	905.41	San Dieguito River	IND
3	9 00000128	88-050	OCEAN CANYON RESORT	OCEAN CANYON RESORT	04/25/88	UPDATE	NO	03/04	4	905.42	San Dieguito River	WS-S
3	9 00000288	86-048	WARREN NEELY FOUNDATION, INC	PINECREST PARK	06/16/86	UPDATE	NO	01/02	4	905.50	San Dieguito River	WS-S
2	9 00000237	95-012	MESA CHIQUITA RANCH DAIRY	MESA CHIQUITA RANCH DAIRY	02/09/95	UPDATE	NO	05/06	4	905.53	San Dieguito River	IND
2	9 00000047	95-011	CAETANA / SWISS CO, ENTERPRISES	SANTA YSABEL RANCH DAIRY	02/09/95	UPDATE	NO	05/06	4	905.54	San Dieguito River	IND
1	9 00000730	97-003	SAN DIEGO, CITY OF, MWWD	NORTH CITY WRP	01/09/97	UPDATE	NO	02/03	4	906.10	Mission Bay	POTW
3	9 00000687	95-104	SOUTH COAST MATERIAL	CARROLL CANYON PLANT	10/12/95	UPDATE	NO	10/11	2	906.10	Mission Bay	IND
3	9 00000264	93-121	CALMAT CO.	CARROLL CANYON PLANT	12/20/93	UPDATE	NO	08/09	2	906.10	Mission Bay	IND
3	9 00000153	88-054	CALMAT CO.	POWAY PLANT	04/25/88	UPDATE	NO	07/08	3	906.20	Mission Bay	IND
3	9 00000081	94-063	HANSON AGGREGATES	MIRAMAR PLANT	10/13/94	UPDATE	NO	09/10	2	906.40	Mission Bay	IND
2	9 00000542	97-049	PADRE DAM MWD	PADRE DAM WRF	12/10/97	UPDATE	NO	07/08	4	907.10	San Diego River	POTW
3	9 00000260	93-119	CALMAT CO.	MISSION VALLEY PLANT COMPLEX	12/20/93	UPDATE	NO	08/09	2	907.11	San Diego River	IND
3	9 00000630	94-032	HG FENTON MATERIAL CO	MISSION VALLEY PLANT	04/14/94	UPDATE	NO	08/09	3	907.11	San Diego River	IND
3	9 00000003	88-016	SUPERIOR READY MIX CONCRETE	MISSION GORGE PLANT	04/25/88	UPDATE	NO	02/03	4	907.11	San Diego River	IND
2	9 00000004	93-033	SPARKLETTS DRINKING WATER CORP	SPARKLETTS DRINKING WATER	03/15/93	UPDATE	NO	03/04	3	907.12	San Diego River	IND
3	9 00000266	93-120	CALMAT CO.	LAKE SIDE SAND PLANT	12/20/93	UPDATE	NO	08/09	2	907.12	San Diego River	IND
3	9 00000201	88-017	CASTER GROUP, LP	LAKE SIDE SAND PLANT	04/25/88	UPDATE	NO	02/03	4	907.12	San Diego River	IND
3	9 00000171	88-065	NELSON AND SLOAN	CHANNEL RD SAND PLANT	06/06/88	UPDATE	NO	02/03	4	907.12	San Diego River	IND
3	9 00000043	95-017	RCP BLOCK & BRICK, INC	SANTEE SAND & BLOCK PLANT	02/09/95	UPDATE	NO	09/10	3	907.12	San Diego River	IND
3	9 00000095	95-004	COUNTRY CREEK RV RESORT	COUNTRY CREEK RV RESORT	04/13/95	UPDATE	NO	10/11	4	907.14	San Diego River	WS-S
2	9 00000196	94-134	VAN OMMERING, G C, R, D	VAN OMMERING DAIRY	10/13/94	UPDATE	NO	04/05	2	907.15	San Diego River	IND
3	9 00000127	94-006	ASPHALT INC.	SLAUGHTERHOUSE CANYON PLANT	02/10/94	UPDATE	NO	08/09	3	907.20	San Diego River	IND
3	9 00000121	94-107	SAN DIEGO CO, PKS & REC	DOS PICOS PARK	09/08/94	UPDATE	NO	09/10	4	907.21	San Diego River	WS-S
1	9 00000076	93-003	RAMONA MWD	SAN VICENTE TREATMENT PLANT	02/01/93	UPDATE	YES	99/00	4	907.23	San Diego River	POTW
3	9 00000410	86-074	WHITMAN RANCH/SPANKLER PEAK	RAMONA SAN VICENTE, WATER REUSE	09/25/86	UPDATE	NO	01/02	4	907.23	San Diego River	POTW
3	9 00000339	94-115	STALLION OAK RANCH LLC	STALLION OAK RANCH	09/08/94	UPDATE	NO	09/10	4	907.31	San Diego River	WS-S
2	9 00000109	83-009	SAN DIEGO CO, PUBLIC WORKS	JULIAN WATER POLLUTION FACIL	07/18/83	UPDATE	YES	99/00	4	907.41	San Diego River	POTW
3	9 00000071	94-013	STANLEY, CHRISTINE	PINEZANITA TRAILER RANCH	02/10/94	UPDATE	NO	09/10	4	907.41	San Diego River	WS-S
2	9 00000122	93-009	SAN DIEGO CO, PUBLIC WORKS	W S HEISE PARK CAMPGROUND	02/01/93	UPDATE	NO	03/04	4	907.42	San Diego River	WS-S
3	9 00000885	00-01	US NAVY	PROJECT 700A DREDGING	06/14/00	UPDATE	NO	10/11	4	908.xx	San Diego Bay	WS-S
3	9 00000886	99-034	US COAST GUARD	BALLAST POINT DREDGING	06/07/99	RESCIND	NO	01/02	4	908.10	San Diego Bay	WS-S
2	9 00000636	94-100	SAN DIEGO UNIFIED PORT DISTRCT	MAURICIO & SONS, INC CLEANUP DREDGING	09/08/94	UPDATE	NO	04/05	4	908.10	San Diego Bay	WS-S
3	9 00000637	99-006	DRISCOLL CUSTOM BOATS, INC.	DRISCOLL CLEANUP DREDGING	03/10/99	UPDATE	NO	09/10	4	908.10	San Diego Bay	WS-S
2	9 00000632	94-102	KETTENBURG MARINE CORPORATION	KETTENBURG CLEANUP DREDGING	09/08/94	UPDATE	NO	04/05	4	908.10	San Diego Bay	WS-S
2	9 00000633	94-101	BAY CITY MARINE, INC	BAY CITY MARINE CLEANUP DREDGING	09/08/94	UPDATE	NO	04/05	4	908.10	San Diego Bay	WS-S
3	9 00000872	99-014	SOUTHWEST MARINE, INC	SOUTHWEST MARINE DREDGING	03/10/99	RESCIND	NO	99/00	4	908.22	San Diego Bay	WS-S
3	9 00000843	97-063	US NAVY	32ND ST NAVAL STATION DREDGING	12/10/97	UPDATE	NO	07/08	4	908.xx	San Diego Bay	WS-S
2	9 00000559	92-034	HIDDEN VALLEY ESTATES, INC	HIDDEN VALLEY ESTATES WRF	06/29/92	UPDATE	NO	02/03	4	909.11	San Diego Bay	WS-S
2	9 00000217	92-025	OTAY MWD	RALPH W CHAPMAN WRF	06/29/92	UPDATE	NO	02/03	4	909.11	San Diego Bay	POTW

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	DATE OF ADOPTION OR LAST REVIEW	ACTION	REVIEW BACK-LOG?	COMPLETION SCHEDULED		HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
								FY	QUARTER			
3	9 000000731	96-060	SAN DIEGO UNIFIED PORT DISTRICT	NATIONAL CITY MARINA DREDGING	10/10/96	UPDATE	NO	10/11	4	909.12	San Diego Bay	WS-S
3	9 000000159	96-051	CALMAT CO.	SLOAN CANYON SAND PLANT	08/08/96	UPDATE	NO	06/07	1	909.21	San Diego Bay	IND
3	9 000000014	95-019	SWALLOWS SUN ISLAND CLUB, INC	SWALLOWS SUN ISLAND CLUB	02/09/95	UPDATE	NO	10/11	4	909.23	San Diego Bay	WS-S
3	9 000000062	94-114	CA DEPT OF PKS AND REC	CUYAMACA RANCHO STATE PARK	09/08/94	UPDATE	NO	09/10	4	909.30	San Diego Bay	WS-S
2	9 000000100	93-112	SAN DIEGO CO, PUBLIC WORKS	DESCANSO DETENTION WPCF	11/15/93	UPDATE	NO	03/04	4	909.33	San Diego Bay	POTW
3	9 000000028	94-071	VIEJAS BAND OF MISSION INDIANS	ALPINE SPRINGS RV PARK	05/12/94	UPDATE	NO	09/10	4	909.33	San Diego Bay	WS-S
3	9 000000155	96-058	OAK GROVE FISH FARMS	OAK GROVE FISH FARMS	10/10/96	UPDATE	NO	01/02	4	909.34	San Diego Bay	WS-S
3	9 000000191	95-089	PAIR-A-DICE MOBILE HOME PARK	PAIR-A-DICE MOBILE HOME PARK	08/10/95	UPDATE	NO	10/11	4	909.34	San Diego Bay	WS-S
3	9 000000154	88-069	PINE VALLEY TRAILER PARK	PINE VALLEY TRAILER PARK	06/24/88	UPDATE	NO	03/04	4	909.34	San Diego Bay	WS-S
3	9 000000129	84-014	THOUSAND TRAILS, INC	OAKZANITA SPRINGS PARK	02/10/94	UPDATE	NO	09/10	4	909.34	San Diego Bay	WS-S
2	9 000000032	87-061	CA DEPT OF FORESTRY	LA CIMA CONSERVATION CAMP	05/04/87	UPDATE	NO	02/03	4	909.35	San Diego Bay	WS-S
3	9 000000689	95-118	US NAVY	HOMEPORTING PROJECT DREDGING	12/14/95	UPDATE	NO	05/06	4	910.10	San Diego Bay	WS-S
3	9 000000158	94-007	NELSON AND SLOAN	OTAY PLANT	02/10/94	UPDATE	NO	08/09	3	910.20	San Diego Bay	IND
3	9 000000212	94-109	SAN DIEGO CO, PKS & REC	LOWER OTAY LAKE COUNTY PARK	09/08/94	UPDATE	NO	09/10	4	910.20	San Diego Bay	WS-S
2	9 000000766	97-032	WHEELABRATOR WATER TECHNOLOGY	BIOSOLIDS APPLICATION IN SD COUNTY	05/21/97	UPDATE	NO	02/03	4	910.30	San Diego Bay	WS-S
3	9 000000422	88-084	KELCO, A UNIT OF MONSANTO CO	FENTON JANAL RANCH (KELCO)	07/18/88	UPDATE	NO	03/04	4	910.31	San Diego Bay	WS-S
3	9 000000103	94-131	SHILOAH SPRINGS BIBLE RETREAT	INDIAN HILLS CAMPGROUND	10/13/94	UPDATE	NO	09/10	4	910.34	San Diego Bay	WS-S
3	9 000000044	84-006	THOUSAND TRAILS, INC	PIO PICO PRESERVE	01/23/84	UPDATE	YES	99/00	4	910.36	San Diego Bay	WS-S
3	9 000000042	94-119	TWIN LAKE RESORT	TWIN LAKES RESORT	09/08/94	UPDATE	NO	09/10	4	911.20	Tijuana River	WS-S
3	9 000000238	94-142	MABREY, JEFFERY	BARRETT LAKE MOBILE HOME PARK	10/13/94	UPDATE	NO	09/10	4	911.23	Tijuana River	WS-S
3	9 000000133	94-093	SAN DIEGO CO, PKS & REC	POTRERO PARK	08/11/94	UPDATE	NO	09/10	4	911.25	Tijuana River	WS-S
2	9 000000099	94-161	SAN DIEGO CO, PUBLIC WORKS	PINE VALLEY SD	12/08/94	UPDATE	NO	04/05	4	911.41	Tijuana River	POTW
3	9 000000130	94-029	SUNRISE HWY RV PARK	SUNRISE HWY RV PARK	03/10/94	UPDATE	NO	09/10	4	911.42	Tijuana River	WS-S
3	9 000000067	94-136	LAKE MORENA RV PARK	LAKE MORENA TRAILER RESORT	10/13/94	UPDATE	NO	09/10	4	911.50	Tijuana River	WS-S
3	9 000000063	88-005	MT EMPIRE UNIFIED SCHOOL DIST	MT EMPIRE JR & SR HIGH SCHOOL	02/08/88	UPDATE	NO	03/04	4	911.60	Tijuana River	POTW
2	9 000000123	87-108	SAN DIEGO CO, PUBLIC WORKS	RANCHO DEL CAMPO WPCF	08/24/87	UPDATE	NO	02/03	4	911.82	Tijuana River	POTW
3	9 000000221	95-034	OUTDOOR WORLD RV PK/CAMPGROUND	OUTDOOR WORLD CAMPGROUND	08/10/95	UPDATE	NO	10/11	4	911.82	Tijuana River	WS-S
3	9 000000108	94-041	LIVE OAK SPRINGS RESORT	LIVE OAK SPRINGS RESORT	05/12/94	UPDATE	NO	09/10	4	911.84	Tijuana River	WS-S
				Total # of WDRs & WRRs: 177								

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NON CHAPTER 15 WDR COMPLIANCE INSPECTIONS

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
2	9 00000769	96-004	EMERALD BAY SERVICE DISTRICT	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.11	San Juan	POTW
2	9 00000772	96-004	IRVINE RANCH WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.11	San Juan	POTW
2	9 00000140	95-056	EL TORO MATERIAL COMPANY	GLASS CANYON FACILITY	1	1	1	1	1	1	901.13	San Juan	IND
2	9 00000768	96-004	EL TORO WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.13	San Juan	POTW
2	9 00000753	96-004	LAGUNA BEACH, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.13	San Juan	POTW
2	9 00000774	96-004	LOS ALISOS WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.13	San Juan	POTW
2	9 00000172	97-052	SOCRA / SOUTH COAST CWD	WATER RECLAMATION PROJECT	3	3	3	3	3	3	901.13	San Juan	POTW
2	9 00000784	96-004	SOUTH COAST CWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.14	San Juan	POTW
2	9 00000118	97-052	SOCRA / MOULTON NIGUEL WD	JOINT REGIONAL WRF	3	3	3	3	3	3	901.14	San Juan	POTW
3	9 00000352	97-052	SOCRA / MOULGON NIGUEL WD	PLANT 3-A	3	3	3	3	3	3	901.14	San Juan	POTW
3	9 00000502	97-052	SOCRA / SANTA MARGARITA WD	NICHOLS RESEACH INSTITUTE WRF	3	3	3	3	3	3	901.20	San Juan	POTW
2	9 00000114	97-052	SOCRA / SANTA MARGARITA WD	OSO CREEK WRF	3	3	3	3	3	3	901.20	San Juan	POTW
2	9 00000078	97-052	SOCRA / TRABUCO CANYON WD	ROBINSON RANCH WRF	3	3	3	3	3	3	901.20	San Juan	POTW
2	9 00000079	88-055	OGLEBAY NORTON INDUSTRIAL SAND	MISSION VIEJO SAND PLANT	1	1	1	1	1	1	901.25	San Juan	IND
2	9 00000131	88-063	PROGRESSIVE MANAGEMENT	ORTEGA OAKS CAMPGROUND	1	1	1	1	1	1	901.20	San Juan	WS-N
2	9 00000073	93-047	ORANGE CO, PROBATION DEPT	JOPLIN YOUTH CENTER	3	3	3	3	3	3	901.20	San Juan	POTW
2	9 00000075	94-046	ORANGE CO, PROBATION DEPT	LOS PINOS FORESTRY CAMP	3	3	3	3	3	3	901.20	San Juan	POTW
2	9 00000775	96-004	MOULTON NIGUEL WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.21	San Juan	POTW
2	9 00000783	96-004	SANTA MARGARITA WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.21	San Juan	POTW
2	9 00000785	96-004	TRABUCO CANYON WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.22	San Juan	POTW
2	9 00000760	96-004	SAN JUAN CAPISTRANO, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.28	San Juan	POTW
2	9 00000290	91-050	SAN CLEMENTE, CITY OF	SAN CLEMENTE WRP	3	3	3	3	3	3	901.30	San Juan	POTW
2	9 00000758	96-004	SAN CLEMENTE, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	901.31	San Juan	POTW
2	9 00000034	94-078	TRW, SYSTEMS GROUP	TRW SPACE TECHNOLOGY LABS	3	3	3	3	3	3	901.40	San Juan	WS-N
3	9 00000792	97-013	USMC BASE, CAMP PENDLETON	PLANT #s 10 & 11	3	3	3	3	3	3	901.50	San Juan	POTW
3	9 00000670	98-004	USMC BASE, CAMP PENDLETON	PLANT #9	3	3	3	3	3	3	901.52	San Juan	POTW
2	9 00000786	96-004	USMC BASE, CAMP PENDLETON	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	902.11	Santa Margarita River	POTW
2	9 00000771	96-004	FALLBROOK PUBLIC UTILITY DIST	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	902.13	Santa Margarita River	POTW
2	9 00000024	95-086	SUPERIOR READY MIX CONCRETE	FALLBROOK PLANT	1	1	1	1	1	1	902.13	Santa Margarita River	IND
2	9 00000082	93-069	RAINBOW MWD	OAK CREST MOBILE ESTATES, INC	3	3	3	3	3	3	902.21	Santa Margarita River	POTW
2	9 00000027	94-069	KATHLEEN K. MORRIS	FALLBROOK KAMP RETREAT	1	1	1	1	1	1	902.21	Santa Margarita River	WS-N
2	9 00000463	92-056	CALTRANS DISTRICT 11	TEMECULA TRUCK INSPECT FACIL	1	1	1	1	1	1	902.23	Santa Margarita River	IND
3	9 00000064	85-029	CALTRANS DISTRICT 11	RAINBOW TRUCK WGH & INSP FACIL	0	0	0	0	1	0	902.23	Santa Margarita River	IND
2	9 00000763	96-004	EASTERN MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	902.32	Santa Margarita River	POTW
2	9 00000782	96-004	RANCHO CA WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	902.32	Santa Margarita River	POTW
3	9 00000564	94-092	RANCHO CA WD	SANTA ROSA SBR TRTMNT FACILITY	3	3	3	3	3	3	902.32	Santa Margarita River	POTW
2	9 00000459	89-040	MCGRAW, JOHN	SINGLE FAMILY RESIDENCE	1	1	1	1	1	1	902.32	Santa Margarita River	WS-N
3	9 00000287	95-083	J & H ASSET PROPERTY MANAGEMEN	WARM SPRINGS MOBILHOME & RV PK	1	1	1	1	1	1	902.32	Santa Margarita River	WS-N
2	9 00000568	93-045	BIO GRO SYSTEMS, INC	SLUDGE MANAGEMENT UNIT	1	1	1	1	1	1	902.33	Santa Margarita River	WS-N
3	9 00000658	96-008	SOMERS, JEAN	CHANNEL CATS RV PARK	0	1	1	1	1	1	902.33	Santa Margarita River	WS-N
1	9 00000452	88-093	STEIFEL DAIRY	STEIFEL DAIRY	3	0	0	0	0	0	902.35	Santa Margarita River	IND
1	9 00000239	94-135	WESSELINK, JULES	WESSELINK AND SON DAIRY	3	0	0	0	0	0	902.35	Santa Margarita River	IND
2	9 00000037	83-015	NORTH AMERICAN INDIAN MISSION	BUFFALO VALLEY CAMPGROUND	1	1	1	1	1	1	902.40	Santa Margarita River	WS-N
3	9 00000008	93-126	CALLAWAY VINEYARD & WINERY	CALLAWAY VINEYARD & WINERY	1	1	1	1	1	1	902.42	Santa Margarita River	IND
3	9 00000052	93-125	POOLE PROPERTIES, INC	MOUNT PALOMAR WINERY	1	1	1	1	1	1	902.42	Santa Margarita River	IND
2	9 00000195	95-018	RIVERSIDE CO, REGION PARK AUTH	SKINNER LAKE RECREATION AREA	1	1	1	1	1	1	902.42	Santa Margarita River	WS-N
2	9 00000105	88-024	INDIAN OAKS TRAILER RANCH	INDIAN OAKS TRAILER RANCH	1	1	1	1	1	1	902.43	Santa Margarita River	WS-N
3	9 00000038	95-084	TUCALOTA SPRINGS RV PARK, INC	TUCALOTA SPRINGS RV PARK, INC	1	1	1	1	1	1	902.44	Santa Margarita River	WS-N
3	9 00000006	94-097	EASTERN MWD	TEMECULA VALLEY RWRF	3	3	3	3	3	3	902.51	Santa Margarita River	POTW
3	9 00000669	95-046	NEW OWL ROCK PRODUCTS	WILSON CREEK SAND MINE	1	1	1	1	1	1	902.61	Santa Margarita River	IND

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3	9 000000116	94-068	TUREL FAMILY TRUST	OAK SPRING RV RESORT, LLC	1	1	1	1	1	1	902.63	Santa Margarita River	WS-N
3	9 000000040	95-015	ANZA PINES MOBILE HOME PARK	ANZA PINES MOBILE HOME PARK	1	1	1	1	1	1	902.70	Santa Margarita River	WS-N
3	9 000000864	98-084	KAMP ANZA, LLC	KAMP ANZA RV RESORT	1	1	1	1	1	1	902.70	Santa Margarita River	WS-N
2	9 000000330	94-002	COWBOY COUNTRY RV PARK	COWBOY COUNTRY RV PARK	1	1	1	1	1	1	902.71	Santa Margarita River	WS-N
3	9 000000057	88-044	VAIL LAKE, LLC	BUTTERFIELD COUNTRY RV RESORT	1	1	1	1	1	1	902.81	Santa Margarita River	WS-N
3	9 000000232	93-043	WOODCHUCK, INC	WOODCHUCK CAMPGROUND	1	1	1	1	1	1	902.81	Santa Margarita River	WS-N
3	9 000000102	94-048	JOJOBA HILLS SKP RESORT, INC	SKP EDUCATIONAL RESORT OF S CA	1	1	1	1	1	1	902.84	Santa Margarita River	WS-N
3	9 000000323	85-028	OUTDOOR RESORTS RANCHO CA	OUTDOOR RESORTS RANCHO CA	1	1	1	1	1	1	902.84	Santa Margarita River	WS-N
2	9 000000756	96-004	OCEANSIDE,CITY OF,WTR UTIL DEP	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	903.11	San Luis Rey River	POTW
3	9 000000351	93-007	OCEANSIDE,CITY OF,WTR UTIL DEP	SAN LUIS REY STP LAND DISPOSAL	3	3	3	3	3	3	903.11	San Luis Rey River	POTW
3	9 000000359	96-032	US ARMY CORPS OF ENGINEERS	OCEANSIDE HARBOR DREDGING	1	1	1	1	1	1	903.11	San Luis Rey River	WS-N
3	9 000000485	91-011	US ARMY CORPS OF ENGINEERS	PHASE 2 SAN LUIS REY RVR FLOOD CNTRL PRJCT	1	1	1	1	1	1	903.11	San Luis Rey River	WS-N
2	9 000000718	96-011	USMC BASE, CAMP PENDLETON	DEL MAR BOAT BASIN DREDGING	1	1	1	1	1	1	903.11	San Luis Rey River	WS-N
3	9 000000645	94-072	USMC BASE, CAMP PENDLETON	PLANT #2, SAN LUIS REY	3	3	3	3	3	3	903.11	San Luis Rey River	POTW
3	9 000000282	86-024	PRINCE OF PEACE ABBEY	PRINCE OF PEACE ABBEY	1	1	1	1	1	1	903.11	San Luis Rey River	WS-N
2	9 000000395	91-039	FALLBROOK PUBLIC UTILITY DIST	PLANTS 1 & 2 RECLAMATION	3	3	3	3	3	3	903.12	San Luis Rey River	POTW
3	9 000000005	94-005	ALL SEASONS CAMPGROUND	ALL SEASONS CAMPGROUND	3	3	3	3	3	3	903.12	San Luis Rey River	WS-N
3	9 000000236	95-032	VALLEY CENTER MWD	LOWER MOOSA CANYON RECL FACIL	3	3	3	3	3	3	903.12	San Luis Rey River	POTW
2	9 000000301	86-032	COLOR SPOT FOLIAGE, INC	COLOR SPOT FOLIAGE, INC	1	1	1	1	1	1	903.12	San Luis Rey River	IND
2	9 000000249	94-018	HARRIS, STEVEN AND SUSAN	WOODS VALLEY KAMPGROUND	1	1	1	1	1	1	903.12	San Luis Rey River	WS-N
2	9 000000779	96-004	RAINBOW MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	903.12	San Luis Rey River	POTW
2	9 000000788	96-004	VALLEY CENTER MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	903.13	San Luis Rey River	POTW
3	9 000000318	94-021	DRUMM, FRED AND MARIE	CHAMPAGNE LAKES RV RESORT	1	1	1	1	1	1	903.13	San Luis Rey River	WS-N
2	9 000000256	95-013	KONYN, JOHN	JOHN KONYN AND SON DAIRY	3	0	0	0	0	0	903.14	San Luis Rey River	IND
2	9 000000107	93-027	LILAC ENTERPRISES, INC	HIDEAWAY LAKE M.E. S.T.P.	3	3	3	3	3	3	903.14	San Luis Rey River	WS-N
3	9 000000830	98-009	VALLEY CENTER MWD	WOODS VALLEY RANCH	3	3	3	3	3	3	903.14	San Luis Rey River	POTW
3	9 000000210	94-074	LILAC OAKS CAMPGROUND	LILAC OAKS CAMPGROUND	1	1	1	1	1	1	903.14	San Luis Rey River	WS-N
3	9 000000366	95-014	VERBOOM, PETE	PETE VERBOOM DAIRY #1	3	3	3	3	3	3	903.20	San Luis Rey River	IND
2	9 000000533	95-020	CA DEPT OF FORESTRY	RAINBOW CONSERVATION CAMP	3	3	3	3	3	3	903.21	San Luis Rey River	WS-N
2	9 000000068	93-001	RAINBOW MWD	PLANT B, PALA MESA VILLAGE	3	3	3	3	3	3	903.21	San Luis Rey River	POTW
2	9 000000205	95-065	VERBOOM, PETE	PETE VERBOOM DAIRY #2	3	3	3	3	3	3	903.21	San Luis Rey River	IND
3	9 000000255	94-062	CALMAT CO.	PALA PRODUCTION PLANT	1	1	1	1	1	1	903.21	San Luis Rey River	IND
2	9 000000356	94-033	HANSON AGGREGATES	PALA PLANT	1	1	1	1	1	1	903.21	San Luis Rey River	IND
2	9 000000778	96-004	PAUMA VALLEY COMM SERVICE DIS	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	903.22	San Luis Rey River	POTW
2	9 000000145	93-046	PAUMA VALLEY COMM SERVICE DIS	PAUMA VALLEY TREATMENT PLANT	3	3	3	3	3	3	903.22	San Luis Rey River	POTW
2	9 000000223	93-029	VALLEY CENTER MWD	SKYLINE RANCH COUNTRY CLUB	3	3	3	3	3	3	903.22	San Luis Rey River	POTW
2	9 000000132	94-039	OAK KNOLL CAMPGROUND	OAK KNOLL CAMPGROUND	1	1	1	1	1	1	903.22	San Luis Rey River	WS-N
3	9 000000072	94-150	PAUMA VALLEY INVESTMENT TRUST	RANCHO CORRIDO TRAILER PARK	1	1	1	1	1	1	903.22	San Luis Rey River	WS-N
3	9 000000096	94-003	SOCIN, AL	LAKE HENSHAW RESORT	1	1	1	1	1	1	903.23	San Luis Rey River	WS-N
2	9 000000033	93-012	CA DEPT OF FORESTRY	PUERTA LA CRUZ CONSERV CAMP	3	3	3	3	3	3	903.31	San Luis Rey River	POTW
2	9 000000235	93-011	US NAVY	S.E.R.E. CAMP WARNER SPRINGS	3	3	3	3	3	3	903.31	San Luis Rey River	POTW
3	9 000000262	93-013	WARNER DEVELOPMENT COMPANY	WARNER SPRINGS RANCH	3	3	3	3	3	3	903.31	San Luis Rey River	WS-N
3	9 000000176	93-014	WARNER SPRINGS ESTATES	WARNER SPRINGS MOBILE ESTATES	3	3	3	3	3	3	903.31	San Luis Rey River	WS-N
2	9 000000312	88-037	PALOMAR TRANSIT MIX COMPANY	OCEANSIDE CONCRETE BATCH PLANT	1	1	1	1	1	1	904.10	Carlsbad	IND
3	9 000000871	96-032	CA DEPT OF FISH & GAME	BATIKUITOS LAGOON DREDGING	1	1	1	1	1	1	904.11	Carlsbad	WS-N
2	9 000000844	96-032	ORANGE CO	DANA POINT HARBOR DREDGING	1	1	1	1	1	1	904.14	Carlsbad	WS-N
3	9 000000743	96-004	CARLSBAD MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.20	Carlsbad	POTW
3	9 000000357	88-067	HANSON AGGREGATES	CARLSBAD PLANT	1	1	1	1	1	1	904.21	Carlsbad	IND
3	9 000000409	86-041	CALTRANS DISTRICT 11	FALLBROOK SD WATER REUSE	1	1	1	1	1	1	904.21	Carlsbad	POTW

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2	9 00000302	98-200	CARLSBAD MWD	LEUCADIA CWD & VALLECITOS WD RECL WTR PRVYR	1	1	1	1	1	1	904.21	Carlsbad	POTW
3	9 00000242	82-003	DAON CORPORATION	BUENA SD, WATER REUSE	1	1	1	1	1	1	904.21	Carlsbad	POTW
3	9 00000241	94-023	VISTA IRRIGATION DISTRICT	BUENA SD RECLAIMED WATER	1	1	1	1	1	1	904.21	Carlsbad	POTW
2	9 00000764	96-004	VISTA, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.22	Carlsbad	POTW
3	9 00000765	96-004	BUENA SANITARY DISTRICT	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.31	Carlsbad	POTW
3	9 00000277	93-082	BUENA SANITARY DISTRICT	SHADOWRIDGE WRP	3	3	3	3	3	3	904.31	Carlsbad	POTW
3	9 00000327	96-032	BRISTOL COVE PROP OWNERS ASSOC	BRISTOL COVE HOA DREDGING	1	1	1	1	1	1	904.31	Carlsbad	WS-N
3	9 00000276	86-102	CARLSBAD RACEWAY CORPORATION	CARLSBAD RACEWAY	1	1	1	1	1	1	904.31	Carlsbad	IND
3	9 00000230	93-124	LA COSTA GOLF COURSE	VALLECITOS WD WATER REUSE	1	1	1	1	1	1	904.31	Carlsbad	POTW
3	9 00000093	96-032	SDG&E	AGUA HEDIONDA LAGOON DREDGING	1	1	1	1	1	1	904.31	Carlsbad	WS-N
2	9 00000023	88-038	SUPERIOR READY MIX CONCRETE	VISTA PLANT	1	1	1	1	1	1	904.31	Carlsbad	IND
3	9 00000540	91-078	ENCINA WASTEWATER AUTHORITY	WATER RECLAMATION PROJECT	3	3	3	3	3	3	904.40	Carlsbad	POTW
2	9 00000748	96-004	ENCINITAS, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.51	Carlsbad	POTW
2	9 00000773	96-004	LEUCADIA CWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.51	Carlsbad	POTW
3	9 00000206	93-041	LEUCADIA CWD	GAFNER WATER RECLAMATION FACIL	3	3	3	3	3	3	904.51	Carlsbad	POTW
3	9 00000571	93-071	SAN ELIJO JOINT POWERS AUTH	SAN ELIJO WPCF	3	3	3	3	3	3	904.51	Carlsbad	POTW
2	9 00000787	96-004	VALLECITOS WD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.52	Carlsbad	POTW
2	9 00000247	93-023	VALLECITOS WD	MEADOWLARK WRP	3	3	3	3	3	3	904.52	Carlsbad	POTW
3	9 00000592	93-070	ESCONDIDO, CITY OF	HALE AVE RESOURCE RECOVERY	3	3	3	3	3	3	904.52	Carlsbad	POTW
3	9 00000211	94-138	HOLLANDIA DAIRY	HOLLANDIA DAIRY	3	3	3	3	3	3	904.52	Carlsbad	IND
2	9 00000209	94-133	VANDER WOUDE, SIMON	SIMON VANDER WOUDE DAIRY	3	3	3	3	3	3	904.53	Carlsbad	IND
2	9 00000749	96-004	ESCONDIDO, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	904.62	Carlsbad	POTW
2	9 00000218	94-129	DE RAADT, JAKE	EDENVALE DAIRY	3	3	3	3	3	3	904.62	Carlsbad	IND
2	9 00000259	94-130	DE RAADT, JOHN & JOANNE	DE RAADT DAIRY	3	3	3	3	3	3	904.62	Carlsbad	IND
2	9 00000035	94-016	MURAT, JOSEPH	ELFIN FOREST RANCH MHP	0	0	0	0	0	0	904.62	Carlsbad	WS-N
2	9 00000320	88-033	GENDER, RICHARD	HARMONY ROCK PRODUCTS PLANT	1	1	1	1	1	1	904.62	Carlsbad	IND
2	9 00000294	88-066	PALOMAR TRANSIT MIX COMPANY	ESCONDIDO CONCRETE BATCH PLNT	1	1	1	1	1	1	904.62	Carlsbad	IND
2	9 00000098	94-012	POTTS, IVAN AND ADELE	IVY DEL TRAILER PARK	1	1	1	1	1	1	904.62	Carlsbad	WS-N
2	9 00000358	94-034	SIM J HARRIS COMPANY	PRE MIX CONCRETE, ESCONDIDO PL	1	1	1	1	1	1	904.62	Carlsbad	IND
2	9 00000025	88-075	SUPERIOR READY MIX CONCRETE	ESCONDIDO CONCRETE BATCH PLANT	1	1	1	1	1	1	904.62	Carlsbad	IND
3	9 00000110	88-064	OAKVALE PARK	OAKVALE PARK	1	1	1	1	1	1	904.63	Carlsbad	WS-N
2	9 00000746	96-004	DEL MAR, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.11	San Dieguito River	POTW
2	9 00000761	96-004	SOLANA BEACH, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.11	San Dieguito River	POTW
2	9 00000770	96-004	FAIRBANKS RANCH COMM SERV DIST	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.11	San Dieguito River	POTW
3	9 00000257	93-005	FAIRBANKS RANCH COMM SERV DIST	FAIRBANKS RANCH WPCF	3	3	3	3	3	3	905.11	San Dieguito River	POTW
2	9 00000781	96-004	RANCHO SANTA FE COMM SERV DIST	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.11	San Dieguito River	POTW
3	9 00000177	92-004	RANCHO SANTA FE COMM SERV DIST	RANCHO SANTA FE SAN DIST PLANT	3	3	3	3	3	3	905.11	San Dieguito River	POTW
TBD	TBD	TBD	RANCHO SANTA FE COMM SERV DIST	MASTER RECLAMATION WDR/WRR	0	3	3	3	3	3	905.??	San Dieguito River	POTW
2	9 00000789	96-004	WHISPERING PALMS COMM SERV DIS	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.11	San Dieguito River	POTW
3	9 00000157	94-080	WHISPERING PALMS COMM SERV DIS	WHISPERING PALMS WPCF	3	3	3	3	3	3	905.11	San Dieguito River	POTW
3	9 00000304	95-016	COAST SAND COMPANY, INC	COAST SAND COMPANY, INC	1	1	1	1	1	1	905.11	San Dieguito River	IND
2	9 00000906	96-004	OLIVENHAIN MWD	SEWAGE COLLECTION SYSTEM	1	3	3	3	3	3	905.??	San Dieguito River	POTW
3	9 00000371	85-040	OLIVENHAIN MWD	4-S RANCH WPCF	3	3	3	3	3	3	905.12	San Dieguito River	POTW
2	9 00000059	87-100	ORFILA VINEYARD, INC	ORFILA VINEYARD	1	1	1	1	1	1	905.20	San Dieguito River	IND
2	9 00000432	90-016	SAN DIEGO, CITY OF, MWWD	SAN PASQUAL WRF	3	3	3	3	3	3	905.21	San Dieguito River	POTW
2	9 00000336	94-004	SE CA ASSOC 7TH DAY ADVEN	SAN PASQUAL ACADEMY	3	3	3	3	3	3	905.30	San Dieguito River	POTW
3	9 00000224	waiver	DE JONG, PETE	CLOVERDALE DAIRY	3	1	1	0	0	0	905.32	San Dieguito River	IND
2	9 00000228	rescinded	KONYN, FRANK J	KONYN, FRANK J DAIRY	2	0	0	0	0	0	905.32	San Dieguito River	IND
3	9 00000202	94-126	VERGER, BERT	BERT VERGER DAIRY	3	3	3	3	3	3	905.32	San Dieguito River	IND

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TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
3	9 00000246	99-004	SAN DIEGO, ZOOLOGICAL SOCIETY	SAN PASQUAL WILD ANIMAL PK STP	3	3	3	3	3	3	905.32	San Dieguito River	POTW
2	9 00000780	96-004	RAMONA MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	905.41	San Dieguito River	POTW
2	9 00000077	95-022	RAMONA MWD	RAMONA WWTP	3	3	3	3	3	3	905.41	San Dieguito River	POTW
2	9 00000036	93-034	OAK TREE RANCH, INC	OAK TREE RANCH INN	3	3	3	3	3	3	905.41	San Dieguito River	WS-S
2	9 00000198	94-128	VAN TOL, JOHN	JOHN VAN TOL DAIRY	3	3	0	0	0	0	905.41	San Dieguito River	IND
2	9 00000197	94-127	VANDER WOUDE, WILLIAM	VALLEY VIEW DAIRY	3	3	3	3	3	3	905.41	San Dieguito River	IND
2	9 00000187	86-022	CRAFTSTONES	GEMSTONES PROCESSING PLANT	1	1	1	1	1	1	905.41	San Dieguito River	IND
1	9 00000128	88-050	OCEAN CANYON RESORT	OCEAN CANYON RESORT	1	1	1	1	1	1	905.42	San Dieguito River	WS-S
2	9 00000288	86-048	WARREN NEELY FOUNDATION, INC	PINECREST PARK	1	1	1	1	1	1	905.50	San Dieguito River	WS-S
2	9 00000237	95-012	MESA CHIQUITA RANCH DAIRY	MESA CHIQUITA RANCH DAIRY	3	3	3	3	3	3	905.53	San Dieguito River	IND
2	9 00000047	95-011	CAETANA / SWISS CO, ENTERPRISES	SANTA YSABEL RANCH DAIRY	3	3	3	3	3	3	905.54	San Dieguito River	IND
3	9 00000730	97-003	SAN DIEGO, CITY OF, MWWWD	NORTH CITY WRP	3	3	3	3	3	3	906.10	Mission Bay	POTW
2	9 00000687	95-104	SOUTH COAST MATERIAL	CARROLL CANYON PLANT	1	1	1	1	1	1	906.10	Mission Bay	IND
3	9 00000264	93-121	CALMAT CO.	CARROLL CANYON PLANT	1	1	1	1	1	1	906.10	Mission Bay	IND
2	9 00000153	88-054	CALMAT CO.	POWAY PLANT	1	1	1	1	1	1	906.20	Mission Bay	IND
2	9 00000757	96-004	POWAY, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	906.20	Mission Bay	POTW
1	9 00000081	94-063	SIM J HARRIS COMPANY	MIRAMAR PLANT	1	1	1	1	1	1	906.40	Mission Bay	IND
3	9 00000542	97-049	PADRE DAM MWD	PADRE DAM WRF	3	3	3	3	3	3	907.10	San Diego River	POTW
3	9 00000260	93-119	CALMAT CO.	MISSION VALLEY PLANT COMPLEX	1	1	1	1	1	1	907.11	San Diego River	IND
3	9 00000630	94-032	HG FENTON MATERIAL CO	MISSION VALLEY PLANT	1	1	1	1	1	1	907.11	San Diego River	IND
3	9 00000003	88-016	SUPERIOR READY MIX CONCRETE	MISSION GORGE PLANT	1	1	1	1	1	1	907.11	San Diego River	IND
2	9 00000004	93-033	SPARKLETT'S DRINKING WATER CORP	SPARKLETT'S DRINKING WATER	3	3	3	3	3	3	907.12	San Diego River	IND
3	9 00000266	93-120	CALMAT CO.	LAKESIDE SAND PLANT	1	1	1	1	1	1	907.12	San Diego River	IND
3	9 00000201	88-017	CASTER GROUP, LP	LAKESIDE SAND PLANT	1	1	1	1	1	1	907.12	San Diego River	IND
3	9 00000171	88-065	NELSON AND SLOAN	CHANNEL RD SAND PLANT	1	1	1	1	1	1	907.12	San Diego River	IND
2	9 00000043	95-017	RCP BLOCK & BRICK, INC	SANTEE SAND & BLOCK PLANT	1	1	1	1	1	1	907.12	San Diego River	IND
2	9 00000777	96-004	PADRE DAM MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	907.12	San Diego River	POTW
2	9 00000762	96-004	SAN DIEGO CO, PUBLIC WORKS	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	907.12	San Diego River	POTW
2	9 00000747	96-004	EL CAJON, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	907.13	San Diego River	POTW
3	9 00000095	95-004	COUNTRY CREEK RV RESORT	COUNTRY CREEK RV RESORT	1	1	1	1	1	1	907.14	San Diego River	WS-S
3	9 00000196	94-134	VAN OMMERING, G C, R, D	VAN OMMERING DAIRY	3	3	3	3	3	3	907.15	San Diego River	IND
3	9 00000127	94-006	ASPHALT INCORPORATED	SLAUGHTERHOUSE CANYON PLANT	1	1	1	1	1	1	907.20	San Diego River	IND
3	9 00000121	94-107	SAN DIEGO CO, PKS & REC	DOS PICOS PARK	1	1	1	1	1	1	907.21	San Diego River	WS-S
3	9 00000076	93-003	RAMONA MWD	SAN VICENTE TREATMENT PLANT	3	3	3	3	3	3	907.23	San Diego River	POTW
3	9 00000410	86-074	WHITMAN RANCH / SPANKLER PEAK	RAMONA MWD SAN VICENTE REUSE	1	1	1	1	1	1	907.23	San Diego River	POTW
3	9 00000339	94-115	STALLION OAK RANCH LLC	STALLION OAK RANCH	1	1	1	1	1	1	907.31	San Diego River	WS-S
3	9 00000109	83-009	SAN DIEGO CO, PUBLIC WORKS	JULIAN WATER POLLUTION FACIL.	3	3	3	3	3	3	907.41	San Diego River	POTW
1	9 00000071	94-013	STANLEY, CHRISTINE	PINEZANITA TRAILER RANCH	1	1	1	1	1	1	907.41	San Diego River	WS-S
3	9 00000122	93-009	SAN DIEGO CO, PUBLIC WORKS	W S HEISE PARK CAMPGROUND	3	3	3	3	3	3	907.42	San Diego River	POTW
3	9 00000885	00-001	US NAVY	PROJECT 700A DREDGING	0	3	3	3	3	3	908.xx	San Diego Bay	WS-S
3	9 00000886	99-034	US COAST GUARD	BALLAST POINT DREDGING	3	3	3	3	3	3	908.10	San Diego Bay	WS-S
3	9 00000637	99-006	DRISCOLL CUSTOM BOATS, INC.	DRISCOLL CUSTOM BOATS, INC.	3	3	3	3	3	3	908.10	San Diego Bay	WS-S
2	9 00000632	94-102	KETTENBURG MARINE CORPORATION	KETTENBURG CLEANUP DREDGING	3	3	3	3	3	3	908.10	San Diego Bay	WS-S
3	9 00000636	94-100	SAN DIEGO UNIFIED PORT DISTRICT	MAURICIO & SONS, INC CLEANUP	3	3	3	3	3	3	908.10	San Diego Bay	WS-S
3	9 00000633	94-101	BAY CITY MARINE, INC	BAY CITY MARINE CLEANUP DREDGING	3	3	3	3	3	3	908.10	San Diego Bay	WS-S
2	9 00000759	96-004	SAN DIEGO, CITY OF, MWWWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	908.20	San Diego Bay	POTW
2	9 00000752	96-004	LA MESA, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	908.22	San Diego Bay	POTW
3	9 00000872	99-014	SOUTHWEST MARINE, INC	SOUTHWEST MARINE DREDGING	0	0	0	0	0	0	908.22	San Diego Bay	WS-S
2	9 00000755	96-004	NATIONAL CITY, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	908.31	San Diego Bay	POTW
2	9 00000843	97-063	US NAVY	32ND STREET NAVAL STATION	1	1	1	1	1	1	908.xx	San Diego Bay	WS-S

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WATERSHED MANAGEMENT APPROACH
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1/2/01

TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/06	HU	WATERSHED MANAGEMENT AREA	STAFF UNIT
2	9 000000754	96-004	LEMON GROVE, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	909.11	San Diego Bay	POTW
2	9 000000559	92-034	HIDDEN VALLEY ESTATES, INC	HIDDEN VALLEY ESTATES WRF	3	3	3	3	3	3	909.11	San Diego Bay	POTW
2	9 000000217	92-025	OTAY MWD	RALPH W CHAPMAN WRF	3	3	3	3	3	3	909.11	San Diego Bay	POTW
2	9 000000731	96-060	SAN DIEGO UNIFIED PORT DISTRICT	NATIONAL CITY MARINA DREDGING	0	0	0	0	0	0	909.12	San Diego Bay	WS-S
3	9 000000159	96-051	CALMAT CO.	SLOAN CANYON SAND PLANT	1	1	1	1	1	1	909.21	San Diego Bay	IND
2	9 000000776	96-004	OTAY MWD	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	909.22	San Diego Bay	POTW
3	9 000000014	95-019	SWALLOWS SUN ISLAND CLUB, INC	SWALLOWS SUN ISLAND CLUB	1	1	1	1	1	1	909.23	San Diego Bay	WS-S
3	9 000000062	94-114	CA DEPT OF PKS AND REC	CUYAMACA RANCHO STATE PARK	1	1	1	1	1	1	909.30	San Diego Bay	WS-S
2	9 000000100	93-112	SAN DIEGO CO, PUBLIC WORKS	DESCANSO DETENTION WATER PCF	3	3	3	3	3	3	909.33	San Diego Bay	POTW
3	9 000000028	94-071	VIEJAS BAND OF MISSION INDIANS	ALPINE SPRINGS RV PARK	1	1	1	1	1	1	909.33	San Diego Bay	WS-S
3	9 000000155	96-058	OAK GROVE FISH FARMS	OAK GROVE FISH FARMS	1	1	1	1	1	1	909.34	San Diego Bay	IND
3	9 000000191	95-089	PAIR-A-DICE MOBILE HOME PARK	PAIR-A-DICE MOBILE HOME PARK	1	1	1	1	1	1	909.34	San Diego Bay	WS-S
3	9 000000154	88-069	PINE VALLEY TRAILER PARK	PINE VALLEY TRAILER PARK	1	1	1	1	1	1	909.34	San Diego Bay	WS-S
3	9 000000129	94-014	THOUSAND TRAILS, INC	OAKZANITA SPRINGS PARK	1	1	1	1	1	1	909.34	San Diego Bay	WS-S
2	9 000000032	87-061	CA DEPT OF FORESTRY	LA CIMA CONSERVATION CAMP	3	3	3	3	3	3	909.35	San Diego Bay	POTW
3	9 000000745	96-004	CORONADO, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	910.10	San Diego Bay	POTW
3	9 000000739	96-032	US NAVY	FUEL ANNEX PIER 180 DREDGING	1	1	1	1	1	1	910.10	San Diego Bay	WS-S
2	9 000000689	95-118	US NAVY	HOMEPORTING PROJECT DREDGING	0	0	0	0	0	0	910.10	San Diego Bay	WS-S
3	9 000000744	96-004	CHULA VISTA, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	910.20	San Diego Bay	POTW
3	9 000000158	94-007	NELSON AND SLOAN	OTAY PLANT	1	1	1	1	1	1	910.20	San Diego Bay	IND
3	9 000000212	94-109	SAN DIEGO CO, PKS & REC	LOWER OTAY LAKE COUNTY PARK	1	1	1	1	1	1	910.20	San Diego Bay	WS-S
2	9 000000766	97-032	WHEELABRATOR WATER	BIOSOLIDS APPLICATION IN SD	3	3	3	3	3	3	910.30	San Diego Bay	WS-S
3	9 000000422	88-084	KELCO, A UNIT OF MONSANTO CO	FENTON JANAL RANCH (KELCO)	1	1	1	1	1	1	910.31	San Diego Bay	WS-S
3	9 000000103	94-131	SHILOAH SPRINGS BIBLE RETREAT	INDIAN HILLS CAMPGROUND	1	1	1	1	1	1	910.34	San Diego Bay	WS-S
3	9 000000044	84-006	THOUSAND TRAILS, INC	PIO PICO PRESERVE	1	1	1	1	1	1	910.36	San Diego Bay	WS-S
2	9 000000750	96-004	IMPERIAL BEACH, CITY OF	SEWAGE COLLECTION SYSTEM	3	3	3	3	3	3	911.11	Tijuana River	POTW
3	9 000000042	94-119	TWIN LAKE RESORT	TWIN LAKES RESORT	1	1	1	1	1	1	911.20	Tijuana River	WS-S
3	9 000000238	94-142	MABREY, JEFFERY	BARRETT LAKE MOBILE HOME PARK	1	1	1	1	1	1	911.23	Tijuana River	WS-S
3	9 000000133	94-093	SAN DIEGO CO, PKS & REC	POTRERO PARK	1	1	1	1	1	1	911.25	Tijuana River	WS-S
2	9 000000099	94-161	SAN DIEGO CO, PUBLIC WORKS	PINE VALLEY SD	3	3	3	3	3	3	911.41	Tijuana River	POTW
3	9 000000130	94-029	SUNRISE HWY RV PARK	SUNRISE HWY RV PARK	1	1	1	1	1	1	911.42	Tijuana River	WS-S
3	9 000000067	94-136	LAKE MORENA RV PARK	LAKE MORENA TRAILER RESORT	1	1	1	1	1	1	911.50	Tijuana River	WS-S
3	9 000000063	88-005	MT EMPIRE UNIFIED SCHOOL DIST	MT EMPIRE JR & SR HIGH SCHOOL	1	1	1	1	1	1	911.60	Tijuana River	WS-S
2	9 000000123	87-108	SAN DIEGO CO, PUBLIC WORKS	RANCHO DEL CAMPO WPCF	3	3	3	3	3	3	911.82	Tijuana River	POTW
3	9 000000221	95-034	OUTDOOR WORLD RV PK / CMPGRND	OUTDOOR WORLD CAMPGROUND	1	1	1	1	1	1	911.82	Tijuana River	WS-S
3	9 000000108	94-041	LIVE OAK SPRINGS RESORT	LIVE OAK SPRINGS RESORT	1	1	1	1	1	1	911.84	Tijuana River	WS-S
				Total # of facilities: 234									

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 8
CHAPTER 15 WDR UPDATE**

1/2/01

TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	DATE OF ADOPTION OR LAST REVIEW	ACTION	REVIEW BACK-LOG?	COMPLETION SCHEDULED		HU	WATERSHED MANAGEMENT AREA
								FY	QUARTER		
1, 2 & 3	various	97-011	various	(general WDR for closed landfills; 18 sites)	06/14/00	update	NO	04-05	4	various	various
1	9 00000586	94-106	SAN JUAN MEADOWS, LP	FORSTER CANYON LANDFILL	08/11/94	update	YES	00-01	2	901.20	San Juan
1	9 00000261	89-102 / 93-086	ORANGE CO, WASTE MGNT DEPT	PRIMA DESCHECHA SANITARY LANDFILL	12/18/89	update	YES	99-00	3	901.30	San Juan
1	9 00000692	95-109	USMC BASE, CAMP PENDLETON	CAMP PENDLETON BIOREMEDIATION FACILITY	10/12/95	update	NO	05-06	4	901.50	San Juan
1	9 00000012	2000-08	USMC BASE, CAMP PENDLETON	SAN ONOFRE SANITARY LANDFILL	03/08/00	update	NO	04-05	3	901.51	San Juan
1	9 00000013	2000-54	USMC BASE, CAMP PENDLETON	LAS PULGAS SANITARY LANDFILL	05/10/00	update	NO	04-05	4	901.52	San Juan
1	9 00000001	79-024	METRO WD OF SO CA	SKINNER PLANT LANDFILL	03/26/79	update	YES	01-02	4	902.41	Santa Margarita River
1	9 00000204	87-053 / 93-086	RIVERSIDE CO, WASTE MGMT DIST	ANZA SANITARY LANDFILL	06/15/87	update	YES	99-00	3	902.73	Santa Margarita River
1	9 00000342	88-053	OCEANSIDE, CITY OF	MISSION AVE SANITARY LANDFILL	08/29/88	update	YES	00-01	4	903.11	San Luis Rey River
1	9 00000173	97-015	SAN DIEGO CO, DPW IWSM	BONSALL LANDFILL	03/12/97	update	NO	02-03	4	903.12	San Luis Rey River
1	9 00000106	83-031	OCEANSIDE, CITY OF, WATER UTIL DEP	ROBERT WEESE FILTRATION PLANT LANDFILL	11/14/83	update	YES	99-00	4	903.12	San Luis Rey River
1	9 00000244	95-029	SAN DIEGO CO, DPW IWSM	VALLEY CENTER LANDFILL	02/09/95	update	NO	00-01	4	903.12	San Luis Rey River
1	9 00000362	96-013	SAN DIEGO CO, DPW IWSM	PALOMAR AIRPORT SANITARY LANDFILL	02/08/96	update	NO	01-02	4	904.40	Carlsbad
1	9 00000278	92-002 / 93-086	SAN DIEGO CO, DPW IWSM	SAN MARCOS SANITARY LANDFILL	01/22/92	update	YES	99-00	4	904.61	Carlsbad
1	9 00000248	2000-161	ALLIED WASTE INDUSTRIES, INC	RAMONA SANITARY LANDFILL	02/09/00	update	NO	04-05	3	905.10	San Dieguito River
1	9 00000348	94-165	SAN DIEGO CO, DPW IWSM	POWAY LANDFILL	12/08/94	update	YES	02-03	4	906.20	Mission Bay
1	9 00000727	96-015	SAN DIEGO, CITY OF, ENV SERV	NORTH MIRAMAR LANDFILL	03/14/96	update	NO	00-01	4	906.40	Mission Bay
1	9 00000363	94-028	SAN DIEGO, CITY OF, ENV SERV	SOUTH MIRAMAR LANDFILL	05/12/94	update	YES	04-00	4	906.40	Mission Bay
1	9 00000314	87-054 / 93-086	SAN DIEGO, CITY OF, ENV SERV	WEST MIRAMAR SANITARY LANDFILL	06/15/87	update	YES	99-00	3	906.40	Mission Bay
1	9 00000655	95-059	SOIL WASH TECHNOLOGIES, INC	CLASS 2 SOIL TREATMENT FACILITY	05/16/95	update	NO	05-06	4	907.11	San Diego River
1	9 00000252	99-074	ALLIED WASTE INDUSTRIES, INC	SYCAMORE CANYON SANITARY LANDFILL	10/13/99	update	NO	04-05	1	907.12	San Diego River
1	9 00000536	92-014	LAKESIDE LAND CO	WOODWARD SAND PIT RECLAMATION PROJECT	04/06/92	update	YES	99-00	4	907.12	San Diego River
2	9 00000381	98-021	TELEDYNE RYAN AERONAUTICAL	CONVAIR LAGOON REMEDIATION PROJECT	05/13/98	update	NO	03-04	4	908.21	San Diego Bay
3	9 00000537	93-018	SAN DIEGO UNIFIED PORT DISTRCT	10TH AVE MARINE TERMINAL DREDGE SPOIL SITE	02/01/93	update	NO	04-05	1	908.22	San Diego Bay
1	9 00000570	94-037	SAN DIEGO UNIFIED PORT DISTRCT	24TH ST MARINE TERMINAL DREDGE SPOIL SITE	03/10/94	update	YES	09-10	4	908.32	San Diego Bay
2	9 00000349	94-164	SAN DIEGO CO, DPW IWSM	JAMACHA SANITARY LANDFILL	12/08/94	update	NO	00-01	4	909.20	San Diego Bay
3	9 00000311	95-024	SAN DIEGO CO, DPW IWSM	VIEJAS SANITARY LANDFILL	02/09/95	update	NO	00-01	4	909.33	San Diego Bay
1	9 00000686	96-018	US NAVY	NASNI BIOREMEDIATION FACILITY	02/08/96	update	NO	01-02	4	910.10	San Diego Bay
3	9 00000215	97-040	DARLING INTERNATIONAL	OMAR RENDERING LANDFILL	06/11/97	update	NO	02-03	4	910.20	San Diego Bay
3	9 00000214	90-009 / 93-086	ALLIED WASTE INDUSTRIES, INC	OTAY ANNEX SANITARY LANDFILL	03/12/90	update	NO	99-00	3	910.20	San Diego Bay
3	9 00000213	2000-161	SAN DIEGO CO, DPW IWSM	OTAY CLASS 1 LANDFILL	08/30/00	update	NO	05-06	1	910.20	San Diego Bay
				Total # of WDRs: 31							

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 9
CHAPTER 15 WDR COMPLIANCE INSPECTIONS

1/2/01

TTWQ	WDID NO.	ORDER NO.	DISCHARGER	FACILITY	INSP SCHED FOR FY 2000/01	INSP SCHED FOR FY 2001/02	INSP SCHED FOR FY 2002/03	INSP SCHED FOR FY 2003/04	INSP SCHED FOR FY 2004/05	INSP SCHED FOR FY 2005/06	HU	WATERSHED MANAGEMENT AREA
1	9 00000586	94-106	SAN JUAN MEADOWS, LP	FORSTER CANYON LANDFILL	1	1	1	1	1	1	901.20	San Juan
1	9 00000261	89-102 / 93-086	ORANGE CO, WASTE MGNT DEPT	PRIMA DESCHECHA SANITARY LANDFILL	1	1	1	1	1	1	901.30	San Juan
1	9 00000692	95-109	USMC BASE, CAMP PENDLETON	CAMP PENDLETON BIOREMEDIATION FACILITY	1	1	1	1	1	1	901.50	San Juan
1	9 00000012	2000-08	USMC BASE, CAMP PENDLETON	SAN ONOFRE SANITARY LANDFILL	1	1	1	1	1	1	901.51	San Juan
1	9 00000013	2000-54	USMC BASE, CAMP PENDLETON	LAS PULGAS SANITARY LANDFILL	1	1	1	1	1	1	901.52	San Juan
1	9 00000001	79-024	METRO WD OF SO CA	SKINNER PLANT LANDFILL	1	1	1	1	1	1	902.41	Santa Margarita River
1	9 00000486	97-011	RANPAC ENGINEERING CORPORATION	TEMECULA LANDFILL	1	1	1	1	1	1	902.50	Santa Margarita River
1	9 00000204	87-053 / 93-086	RIVERSIDE CO, WASTE MGMT DIST	ANZA SANITARY LANDFILL	1	1	1	1	1	1	902.73	Santa Margarita River
1	9 00000810	97-011	OCEANSIDE, CITY OF	MAXSON STREET LANDFILL	1	1	1	1	1	1	903.11	San Luis Rey River
1	9 00000342	88-053	OCEANSIDE, CITY OF	MISSION AVE SANITARY LANDFILL	1	1	1	1	1	1	903.11	San Luis Rey River
1	9 00000173	97-015	SAN DIEGO CO, DPW IWSM	BONSALL LANDFILL	1	1	1	1	1	1	903.12	San Luis Rey River
1	9 00000106	83-031	OCEANSIDE, CITY OF, WATER UTIL DEPT	ROBERT WEESE FILTRATION PLANT LANDFILL	1	1	1	1	1	1	903.12	San Luis Rey River
1	9 00000244	95-029	SAN DIEGO CO, DPW IWSM	VALLEY CENTER LANDFILL	1	1	1	1	1	1	903.12	San Luis Rey River
1	9 00000822	97-011	US NAVY	SERE CAMP LANDFILL	1	1	1	1	1	1	903.31	San Luis Rey River
1	9 00000362	96-013	SAN DIEGO CO, DPW IWSM	PALOMAR AIRPORT SANITARY LANDFILL	1	1	1	1	1	1	904.40	Carlsbad
1	9 00000813	97-011	SAN DIEGO CO, DPW IWSM	ENCINITAS LANDFILL	1	1	1	1	1	1	904.51	Carlsbad
1	9 00000918	97-011	SAN DIEGO CO, DPW IWSM	BRADLEY PARK	1	1	1	1	1	1	904.52	Carlsbad
1	9 00000278	92-002 / 93-086	SAN DIEGO CO, DPW IWSM	SAN MARCOS SANITARY LANDFILL	1	1	1	1	1	1	904.61	Carlsbad
1	9 00000248	2000-06	ALLIED WASTE INDUSTRIES, INC	RAMONA SANITARY LANDFILL	1	1	1	1	1	1	905.10	San Dieguito River
1	9 00000348	94-165	SAN DIEGO CO, DPW IWSM	POWAY LANDFILL	1	1	1	1	1	1	906.20	Mission Bay
1	9 00000727	96-015	SAN DIEGO, CITY OF, ENV SERVICES	NORTH MIRAMAR LANDFILL	1	1	1	1	1	1	906.40	Mission Bay
1	9 00000363	94-028	SAN DIEGO, CITY OF, ENV SERVICES	SOUTH MIRAMAR LANDFILL	1	1	1	1	1	1	906.40	Mission Bay
1	9 00000314	87-054 / 93-086	SAN DIEGO, CITY OF, ENV SERVICES	WEST MIRAMAR SANITARY LANDFILL	1	1	1	1	1	1	906.40	Mission Bay
1	9 00000815	97-011	US NAVY	ADM. BAKER GOLF COURSE LANDFILL	1	1	1	1	1	1	907.11	San Diego River
1	9 00000655	95-059	SOIL WASH TECHNOLOGIES, INC	CLASS 2 SOIL TREATMENT FACILITY	1	1	1	1	1	1	907.11	San Diego River
1	9 00000378	97-011	SAN DIEGO, CITY OF, ENV SERVICES	MISSION BAY LANDFILL	1	1	1	1	1	1	907.11	San Diego River
1	9 00000252	99-074	ALLIED WASTE INDUSTRIES, INC	SYCAMORE CANYON SANITARY LANDFILL	1	1	1	1	1	1	907.12	San Diego River
1	9 00000536	92-014	LAKE SIDE LAND CO	WOODWARD SAND PIT RECLAMATION PROJECT	1	1	1	1	1	1	907.12	San Diego River
3	9 00000911	97-011	SAN DIEGO CO, DPW IWSM	CACTUS PARK	1	1	1	1	1	1	907.12	San Diego River
1	9 00000812	97-011	SAN DIEGO CO, DPW IWSM	GILLESPIE LANDFILL	1	1	1	1	1	1	907.13	San Diego River
1	9 00000823	97-011	US NAVY	OLD MCRD LANDFILL	1	1	1	1	1	1	908.10	San Diego Bay
2	9 00000824	97-011	SAN DIEGO, CITY OF, ENV SERVICES	ARIZONA ST / BALBOA PARK LANDFILL	1	1	1	1	1	1	908.21	San Diego Bay
2	9 00000381	98-021	TELEDYNE RYAN AERONAUTICAL	CONVAIR LAGOON REMEDIATION PRJCT	1	1	1	1	1	1	908.21	San Diego Bay
2	9 00000820	97-011	SAN DIEGO, CITY OF, ENV DEPT	SOUTH CHOLLAS LANDFILL	1	1	1	1	1	1	908.22	San Diego Bay
3	9 00000537	93-018	SAN DIEGO UNIFIED PORT DISTRCT	10TH AVE MARINE TERMINAL DREDGE SPOIL SITE	1	1	1	1	1	1	908.22	San Diego Bay
1	9 00000570	94-037	SAN DIEGO UNIFIED PORT DISTRCT	24TH ST MARINE TERMINAL DREDGE SPOIL SITE	1	1	1	1	1	1	908.32	San Diego Bay
2	9 00000811	97-011	SAN DIEGO CO, DPW IWSM	HILLSBOROUGH LANDFILL	1	1	1	1	1	1	909.10	San Diego Bay
1	9 00000917	97-011	SAN DIEGO, CITY OF, ENV SERVICES	PARADISE HILLS PARK	1	1	1	1	1	1	909.12	San Diego Bay
1	9 00000916	97-011	SD UNIFIED SCHOOL DISTRICT	BELL JR HI	1	1	1	1	1	1	909.12	San Diego Bay
2	9 00000349	94-164	SAN DIEGO CO, DPW IWSM	JAMACHA SANITARY LANDFILL	1	1	1	1	1	1	909.20	San Diego Bay
3	9 00000311	95-024	SAN DIEGO CO, DPW IWSM	VIEJAS SANITARY LANDFILL	1	1	1	1	1	1	909.33	San Diego Bay
3	9 00000819	97-011	US NAVY	GOLF COURSE LANDFILL	1	1	1	1	1	1	910.10	San Diego Bay
3	9 00000821	97-011	US NAVY	OLD SPANISH BIGHT LANDFILL	1	1	1	1	1	1	910.10	San Diego Bay
1	9 00000686	96-018	US NAVY	NASNI BIOREMEDIATION FACILITY	1	1	1	1	1	1	910.10	San Diego Bay
3	9 00000215	97-040	DARLING INTERNATIONAL	OMAR RENDERING LANDFILL	1	1	1	1	1	1	910.20	San Diego Bay
3	9 00000214	90-009 / 93-086	ALLIED WASTE INDUSTRIES, INC	OTAY ANNEX SANITARY LANDFILL	1	1	1	1	1	1	910.20	San Diego Bay
3	9 00000213	2000-161	SAN DIEGO CO, DPW IWSM	OTAY CLASS 1 LANDFILL	1	1	1	1	1	1	910.20	San Diego Bay
3	9 00000814	97-011	SAN DIEGO CO, DPW IWSM	SAN YSIDRO BURN SITE	1	1	1	1	1	1	911.11	Tijuana River
				Total # of facilities: 48								

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 10
BASIN PLANNING

1/2/01

PROJECT	COMPLETION SCHEDULED (FY)	PRIORITY OF UNSCHEDULED ACTIONS	HU	WATERSHED MANAGEMENT AREA
2002 Triennial Review	02-03	x	all	regionwide
Pollution prevention policy	Not yet scheduled*	high	all	regionwide
Update Basin Plan map	Not yet scheduled*	high	all	regionwide
Dissolved oxygen objective for inland surface waters and enclosed bays and estuaries	Not yet scheduled*	low	all	regionwide
Add text re: controllable water quality factors	Not yet scheduled*	medium	all	regionwide
Procedure or criteria for designating beneficial uses or water quality objectives for ground water in vertically distinct aquifers	Not yet scheduled*	medium	all	regionwide
Upgrade guidance on the evaluation of nitrate impacts related to septic tank use	Not yet scheduled*	medium	all	regionwide
Bacteria objectives	Not yet scheduled*	medium	all	regionwide
April 1, 1996 Interim Guidance on Required Cleanup at Low-Risk Fuel Contaminated Sites	Not yet scheduled*	medium	all	regionwide
Risk assessments in section VI.A.3 of the Cleanup and Abatement Policy	Not yet scheduled*	medium	all	regionwide
Sewage spill policy	Not yet scheduled*	high	all	regionwide
Update old list of DoD facilities and lead agencies on page 4-89	Not yet scheduled*	low	all	regionwide
Total residual chlorine objective	Not yet scheduled*	high	all	regionwide
Discuss the benefits of live stream discharge and ground water injections	Not yet scheduled*	medium	all	regionwide
Water quality objectives for percent sodium, sodium adsorption ratio (SAR), and adjusted sodium adsorption ratio (Adj. SAR)	Not yet scheduled*	medium	all	regionwide
Define Total Nitrogen and delete reference to nitrate objective for inland surface waters on p. 3-10	Not yet scheduled*	medium	all	regionwide
Miscellaneous minor corrections	Not yet scheduled*	low	all	regionwide
Effluent-dependent beneficial use	Not yet scheduled*	medium	all	regionwide
Wetlands beneficial use or water body category	Not yet scheduled*	medium	all	regionwide
TMDL for the Pacific Ocean shoreline for coliform	05-06	x	all	regionwide
Discussion on graywater and sewage from vessels	Not yet scheduled*	medium	various	various
Rewrite the section on shipyards and boatyards in light of SWRCB review of the new general permits	Not yet scheduled*	high	various	various
Dredging section	Not yet scheduled*	high	various	various
Aliso Creek (and mouth and beach) TMDL for coliform	06-07	x	901.13	San Juan
Lower San Juan Creek (and mouth) TMDL for coliform	06-07	x	901.20	San Juan
COLD and SPWN in the San Juan Hydrologic Unit	Not yet scheduled*	high	901.00	San Juan
Beneficial uses at the Prima Deshecha Landfill	Not yet scheduled*	low	901.31	San Juan
Rainbow Creek TMDL for nutrients	00-01	x	902.20	Santa Margarita River
Santa Margarita Lagoon TMDL for nutrients	09-10	x	902.11	Santa Margarita River
COLD and SPWN in the Santa Margarita Hydrologic Unit	Not yet scheduled*	high	902.00	Santa Margarita River
Guajome Lake TMDL for nutrients	09-10	x	903.11	San Luis Rey River
COLD and SPWN in the San Luis Rey Hydrologic Unit	Not yet scheduled*	high	903.00	San Luis Rey River
Loma Alta Slough TMDL for nutrients and coliform	07-08	x	904.10	Carlsbad
Buena Vista Lagoon TMDL for sediment, nutrients, and coliform	07-08	x	904.21	Carlsbad
Agua Hedionda Lagoon TMDL for sediment	09-10	x	904.31	Carlsbad
Agua Hedionda Lagoon TMDL for coliform	07-08	x	904.31	Carlsbad
San Elijo Lagoon TMDL for sediment	09-10	x	906.41	Carlsbad
San Elijo Lagoon TMDL for nutrients and coliform	07-08	x	906.41	Carlsbad
Beneficial uses of ground water in portions of HSA 4.51 and 4.52 between Highway 78 and El Camino Real	Not yet scheduled*	low	904.51 & 904.52	Carlsbad

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX B - SECTION 10
BASIN PLANNING

1/2/01

PROJECT	COMPLETION SCHEDULED (FY)	PRIORITY OF UNSCHEDULED ACTIONS	HU	WATERSHED MANAGEMENT AREA
Review Department of Water Resources San Diego Region Ground Water Studies, Phase V and VI for possible Basin Plan revisions	Not yet scheduled*	low	??	San Dieguito River and San Diego Bay
Los Penasquitos Lagoon TMDL for sediment	11-12	x	906.10	Mission Bay
Mission Bay TMDL for nutrients and lead	09-10	x	906.30	Mission Bay
Mission Bay TMDL for coliform	06-07	x	906.40, 906.50	Mission Bay
Tecolote Creek TMDL for storm water	08-09	x	906.50	Mission Bay
Tecolote Creek TMDL for coliform	06-07	x	906.50	Mission Bay
Poway HA, Scripps HA, and Miramar HA (6.20, 6.30, 6.40): relax groundwater TDS objective	Not yet scheduled*	low	906.20, 906.30 & 906.40	Mission Bay
Famosa Slough TMDL for nutrients	09-10	x	906.40	San Diego River
Ground water quality objectives in Mission San Diego Hydrologic Subarea for iron and manganese	Not yet scheduled*	low	907.11	San Diego River
Gower HSA (7.23): relax groundwater mineral objectives	Not yet scheduled*	low	907.23	San Diego River
Beneficial uses of groundwater in the San Diego Formation	Not yet scheduled*	medium	??	San Diego River, San Diego Bay, Tijuana River
San Diego Bay, Shelter Island Yacht Basin, TMDL for copper	00-01	x	908.10	San Diego Bay
Chollas Creek Watershed TMDL	00-01	x	908.22	San Diego Bay
Chollas Creek TMDL for coliform	05-06	x	908.22	San Diego Bay
San Diego Bay shoreline, Lindbergh HSA TMDL for coliform	05-06	x	908.21	San Diego Bay
San Diego Bay TMDL for toxicity and benthic community effects.	04-05	x	908, 909 & 910	San Diego Bay
Prohibit new permanent dewatering discharges to San Diego Bay.	Not yet scheduled*	high	908, 909 & 910	San Diego Bay
Basin Plan Amendment for the Lower Sweetwater Hydrologic Area groundwater west of I-5	Not yet scheduled*	low	909.12	San Diego Bay
San Diego Bay shoreline, Telegraph HSA TMDL for coliform	05-06	x	909.12	San Diego Bay
Southern boundary to the footnote for 10.20 Salt Creek area groundwater	Not yet scheduled*	low	910.20	San Diego Bay
Tijuana River and Estuary TMDL for coliform	12-13	x	911.11	Tijuana River
Tijuana River and Estuary TMDL for trace metals, nickel, thallium, lead, low dissolved oxygen, solids, nutrients, synthetic organics, pesticides, and trash	12-13	x	911.11	Tijuana River
Basin Plan Amendment for the Tijuana Valley Hydrologic Area 11.10 groundwater	Not yet scheduled*	low	911.10	Tijuana River
Total # of Basin Plan amendment projects: 62 # of Basin Plan amendment projects scheduled: 27 # of Basin Plan amendment projects not yet scheduled: 35 # of Basin Plan amendment projects closely related to TMDLs: 26	* Funding that would otherwise be used for this work has been redirected to TMDL development.			

APPENDIX C TABLE 1

January 2, 2001

SUMMARY SCHEDULE FOR TOTAL MAXIMUM DAILY LOAD DEVELOPMENT

APPENDIX C TABLE 1 FOOTNOTES:

TMDL Completion Date - The date it is anticipated that the TMDL will be incorporated into the Regional Board's Basin Plan.

Assess further - This indicates that the waterbody may be further assessed prior to TMDL development. Some waterbodies may have some indication of impairment or threat (e.g. few data points are available and one point shows exceedance of a criterion), but require further assessment to conclusively determine whether uses are impaired or threatened.

Delist – This indicates that a waterbody may be **delisted for the reasons that are provided under the *Comments* column**. Delisting guidelines are contained in the 303(d) listing guidelines. A waterbody will remain on Table 1, however, until it is formally delisted through the 303(d) public review process.

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 2
DETAILED SCHEDULE OF TMDL ACTIVITIES**

1/2/01

Waterbody Name/Reach	Chollas Creek		Rainbow Creek		Chollas Creek	
Watershed Name	San Diego Bay		Santa Margarita River		San Diego Bay	
Hydrologic Unit	908.22		902.20		908.22	
Stressor(s)	Diazinon		Nutrients		Metals	
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	1998/99	1999/00	1998/99	1999/00	1999/00	2000/01
Implementation Planning	1999/00	2000/01	1999/00	2000/01	2000/01	2000/01
Basin Plan Amendment	2000/01	2000/01	2000/01	2000/01	2000/01	2001/02
Implementation Oversight and Tracking	2000/01		2000/01		2001/02	
Waterbody Name/Reach						
Waterbody Name/Reach	San Diego Bay; Shelter Island Yacht Basin		San Diego Bay; Near Chollas Creek		San Diego Bay; Seventh Street Channel	
Watershed Name	San Diego Bay		San Diego Bay		San Diego Bay	
Hydrologic Unit	908.10		908.22		908.31	
Stressor(s)	Dissolved Copper		Benthic community degradation, Toxicity		Benthic community degradation, Toxicity	
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	1999/00	2000/01	2000/01	2001/02	2000/01	2001/02
Implementation Planning	2000/01	2000/01	2000/01	2001/02	2000/01	2001/02
Basin Plan Amendment	2000/01	2001/02	2001/02	2002/03	2001/02	2002/03
Implementation Oversight and Tracking	2001/02		2002/03		2002/03	
Waterbody Name/Reach						
Waterbody Name/Reach	San Diego Bay; San Diego Naval Station		San Diego Bay; North of 24th Street Marine Terminal		San Diego Bay; Near Coronado Bridge	
Watershed Name	San Diego Bay		San Diego Bay		San Diego Bay	
Hydrologic Unit	908.22, 908.31, 908.32, 909.10		909.10		908.22	
Stressor(s)	Benthic community degradation, Toxicity		Benthic community degradation, Toxicity		Benthic community degradation, Toxicity	
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	2001/02	2002/03	2001/02	2002/03	2002/03	2003/04
Implementation Planning	2001/02	2002/03	2001/02	2002/03	2003/04	2003/04
Basin Plan Amendment	2002/03	2003/04	2002/03	2003/04	2003/04	2004/05
Implementation Oversight and Tracking	2003/04		2003/04		2004/05	
Waterbody Name/Reach						
Waterbody Name/Reach	San Diego Bay; Near Sub Base		San Diego Bay; Near Grape Street		San Diego Bay; Downtown Piers	
Watershed Name	San Diego Bay		San Diego Bay		San Diego Bay	
Hydrologic Unit	908.10		908.21		908.22	
Stressor(s)	Benthic community degradation, Toxicity		Benthic community degradation, Toxicity		Benthic community degradation, Toxicity	
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	2002/03	2003/04	2002/03	2003/04	2002/03	2003/04
Implementation Planning	2003/04	2003/04	2003/04	2004/05	2003/04	2004/05
Basin Plan Amendment	2003/04	2004/05	2004/05	2004/05	2004/05	2004/05
Implementation Oversight and Tracking	2004/05		2004/05		2004/05	

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 2
DETAILED SCHEDULE OF TMDL ACTIVITIES

1/2/01

Waterbody Name/Reach	Aliso Creek, Aliso Creek Mouth, Pacific Ocean Shoreline, Aliso Beach, Pacific Ocean Shoreline, Laguna Beach HSA 901.12; Laguna Beach, Irvine Cove-Riveria, Heisler Park-North, Main Beach (Large), Laguna Ave, Cleo Street, Bluebird Canyon Road, Ocean Way, Drummond Dr. Lagunita/Blue Lagoon, South Coast Hwy At Hospital, West St, 1000 Steps, Table Rock. Pacific Ocean Shoreline, Dana Point HSA 901.14 Salt Creek (Large), Salt Creek Service Rd, Dana Strand, North Beach Creek, Capo Beach, Pacific Ocean Shoreline, Lower San Juan HSA 901.27, San Juan Creek (Large), Pacific Ocean Shoreline, San Clemente HA 901.30; Poche Beach (Large), Pico Drain (Large), El Portal Stairs, Mariposa, Linda Lane, South Linda Lane, Lifeguard Headquarters, Trafalgar Canyon, Under Pier, La Ladera, Riveria Beach, Salem Tressel, Cypress Shores, San Juan Creek, Lower, San Juan Creek Mouth			
Watershed Name	San Juan			
Hydrologic Unit	905.00, 901.12, 901.14, 901.27			
Stressor(s)	Coliform			
Activity Dates	Start	End		
TMDL Development	2004/05	2006/07		
Implementation Planning	2005/06	2006/07		
Basin Plan Amendment	2006/07	2007/08		
Implementation Oversight and Tracking	2007/08			
Waterbody Name/Reach	San Diego Bay - Chollas Creek, Pacific Ocean Shoreline, Coronado HA, 910.10; North Beach, Loma Avenue, Pine Street, Sunset Park (Coronado) San Diego Bay Shoreline, Lindberg HSA 908.21; G St, B St Pier, San Diego Bay Shoreline, Telegraph HSA 909.12; Chula Vista Marina	Mission Bay- Pacific Ocean Shoreline, Scripps HA 906.30, El Paseo Grande, Del Oro, Vallecitos, Avenida De La Playa, Coast Blvd, Children'S Pool, Ravina, Vista De La Playa, Bonair, Playa Del Norte, Palomar (La Jolla); Tourmaline, Grand Avenue (Pacific Beach), Mission Bay, Tecolote Creek	San Diego River - Pacific Ocean Shoreline, San Diego HU, 907.00, San Diego River Mouth, (Ocean Beach.)	
Watershed Name	San Diego Bay	Mission Bay	San Diego River	
Hydrologic Unit	908.22, 908.21, 909.12, 910.10	906.30, 906.40, 906.50	907.00	
Stressor(s)	Coliform	Coliform	Coliform	
Activity Dates	Start	End	Start	End
TMDL Development	2004/05	2005/06	2004/05	2005/06
Implementation Planning	2004/05	2005/06	2005/06	2005/06
Basin Plan Amendment	2005/06	2005/06	2005/06	2006/07
Implementation Oversight and Tracking	2005/06		2006/07	

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 2
DETAILED SCHEDULE OF TMDL ACTIVITIES**

1/2/01

Waterbody Name/Reach	San Dieguito River - Pacific Ocean Shoreline, San Dieguito HU 905.00; Del Mar (Anderson Canyon), San Dieguito Lagoon Mouth	Carlsbad - Pacific Ocean Shoreline, Buena Vista Creek HA 904.20; Pine Street (Carlsbad), Carlsbad Village Parkway (Carlsbad), Pacific Shoreline, San Marcos HA 904.50; Moonlight State Beach, Pacific Shoreline, Escondido Creek HA 904.60; Solana Beach, San Elijo Lagoon, San Elijo Lagoon, Carlsbad - Agua Hedionda Lagoon, Buena Vista Lagoon, Loma Alta Slough, Pacific Ocean Shoreline, Loma Alta HA 904.10, Loma Alta Creek Mouth	San Luis Rey River -Pacific Ocean Shoreline, San Luis Rey HU 903.00; San Luis Rey River Mouth			
Watershed Name	San Dieguito River	Carlsbad	San Luis Rey River			
Hydrologic Unit	905.00	904.31, 904.21, 904.10, 904.20, 904.50, 904.60, 904.61	903.00			
Stressor(s)	Coliform	Coliform	Coliform			
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	2005/06	2005/06	2006/07	2007/08	2006/07	2007/08
Implementation Planning	2005/06	2005/06	2007/08	2007/08	2007/08	2007/08
Basin Plan Amendment	2005/06	2006/07	2007/08	2008/09	2007/08	2008/09
Implementation Oversight and Tracking	2006/07		2008/09		2008/09	

Waterbody Name/Reach	Carlsbad - San Elijo Lagoon - Agua Hedionda Lagoon, Buena Vista Lagoon, Loma Alta Slough Eutrophication	Mission Bay	Guajome Lake			
Watershed Name	Carlsbad	Mission Bay	San Luis Rey River			
Hydrologic Unit	904.10, 904.21, 904.31, 904.61	906.30, 906.40, 906.50	903.11			
Stressor(s)	Eutrophication	Eutrophication, Lead	Eutrophication			
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	2007/08	2008/09	2007/08	2008/09	2008/09	2008/09
Implementation Planning	2008/09	2009/10	2008/09	2008/09	2008/09	2008/09
Basin Plan Amendment	2008/09	2009/10	2008/09	2009/10	2008/09	2009/2010
Implementation Oversight and Tracking	2009/10		2009/10		2009/10	

**SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 2
DETAILED SCHEDULE OF TMDL ACTIVITIES**

1/2/01

Waterbody Name/Reach	Santa Margarita Lagoon		Agua Hedionda Lagoon, Buena Vista Lagoon, San Elijo Lagoon		Los Penasquitos Lagoon	
Watershed Name	Santa Margarita River		Carlsbad		Mission Bay	
Hydrologic Unit	902.11		904.31, 904.21, 904.61		906.10	
Stressor(s)	Eutrophication		Sediment		Sediment	
Activity Dates	Start	End	Start	End	Start	End
TMDL Development	2008/09	2008/09	2009/10	2010/11	2009/10	2010/11
Implementation Planning	2008/09	2009/10	2009/10	2010/11	2010/11	2010/11
Basin Plan Amendment	2009/10	2009/10	2010/11	2010/11	2010/11	2011/12
Implementation Oversight and Tracking	2009/10		2011/12		2011/12	

Waterbody Name/Reach	Pacific Ocean Shoreline, Tijuana HU 911.00; Tijuana River, Tijuana River Estuary		Tijuana River and Tijuana River Estuary			
Watershed Name	Tijuana River		Tijuana River			
Hydrologic Unit	911.00, 911.11		911.00, 911.11			
Stressor(s)	Coliform		Low Dissolved Oxygen, Solids, Trace Metals, Synthetic Organics, Pesticides, Eutrophication, Nickel, Thallium, Lead, Trash			
Activity Dates	Start	End	Start	End		
TMDL Development	2010/11	2011/12	2010/11	2011/12		
Implementation Planning	2011/12	2011/12	2011/12	2011/12		
Basin Plan Amendment	2011/12	2012/13	2011/12	2012/13		
Implementation Oversight and Tracking	2012/13		2012/13			

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 3
DETAILED TMDL TASKS SCHEDULE

1/2/01

**Chollas Creek; 908.22
(Diazinon)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 1998/99	0.15	Federal		Develop Problem Statement Report	Aug 1999
Numeric Targets	FY 1998/99	0.1	Federal		Numeric Targets Report	Aug 1999
Source Analysis	FY 1999/00	0.3	Federal		Source Analysis Report	Nov 1999
Pollutant Load Allocations	FY 1999/00	0.35	Federal		Pollutant Load Allocations Report	Mar 2000
Margin Of Safety	FY 1999/00	0.1	Federal		Margin Of Safety Report	Mar 2000
Linkage Analysis	FY 1999/00	0.05	Federal		Linkage Analysis Report	Mar 2000
EPA Technical TMDL Promulgation	FY 1999/00	0.15	Federal		EPA Technical TMDL Promulgation Report	Apr 2000
Implementation Planning						
Implementation Plan	FY 2000/01	0.55	State		Implementation Plan Report	Nov 2000
Monitoring Strategy	FY 2000/01	0.2	State		Monitoring Strategy Report	Nov 2000
Basin Plan Amendment						
Notice of Filing	FY 2000/01	0	State		Notice Of Filing Report	Mar 2001
Adoption of TMDL Basin Plan Amendment	FY 2000/01	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Apr 2001

SDRWQCB
WATERSHED MANAGEMENT APPROACH
APPENDIX C - SECTION 3
DETAILED TMDL TASKS SCHEDULE

1/2/01

**Rainbow Creek; 902.20
(Nutrients)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 1998/99	0.15	Federal		Develop Problem Statement Report	Aug 1999
Numeric Targets	FY 1998/99	0.1	Federal		Numeric Targets Report	Aug 1999
Source Analysis	FY 1999/00	0.3	Federal		Source Analysis Report	Nov 1999
Pollutant Load Allocations	FY 1999/00	0.35	Federal		Pollutant Load Allocations Report	Mar 2000
Margin Of Safety	FY 1999/00	0.1	Federal		Margin Of Safety Report	Mar 2000
Linkage Analysis	FY 1999/00	0.05	Federal		Linkage Analysis Report	Mar 2000
EPA Technical TMDL Promulgation	FY 1999/00	0.15	Federal		EPA Technical TMDL Promulgation Report	Apr 2000
Implementation Planning						
Implementation Plan	FY 2000/01	0.55	State		Implementation Plan Report	Nov 2000
Monitoring Strategy	FY 2000/01	0.2	State		Monitoring Strategy Report	Nov 2000
Basin Plan Amendment						
Notice of Filing	FY 2000/01	0	State		Notice Of Filing Report	Mar 2001
Adoption of TMDL Basin Plan Amendment	FY 2000/01	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Apr 2001

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**Chollas Creek; 908.22
(Metals)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 1999/00	0.15	Federal		Develop Problem Statement Report	Mar 2000
Numeric Targets	FY 1999/00	0.1	Federal		Numeric Targets Report	Mar 2000
Source Analysis	FY 1999/00	0.3	Federal		Source Analysis Report	Jun 2000
Pollutant Load Allocations	FY 1999/00	0.35	Federal		Pollutant Load Allocations Report	Aug 2000
Margin Of Safety	FY 1999/00	0.1	Federal		Margin Of Safety Report	Aug 2000
Linkage Analysis	FY 1999/00	0.05	Federal		Linkage Analysis Report	Aug 2000
EPA Technical TMDL Promulgation	FY 2000/01	0.15	Federal		EPA Technical TMDL Promulgation Report	Jan 2001
Implementation Planning						
Implementation Plan	FY 2000/01	0.55	State		Implementation Plan Report	Apr 2001
Monitoring Strategy	FY 2000/01	0.2	State		Monitoring Strategy Report	Apr 2001
Basin Plan Amendment						
Notice of Filing	FY 2000/01	0	State		Notice Of Filing Report	May 2001
Adoption of TMDL Basin Plan Amendment	FY 2000/01	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Dec 2001

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**San Diego Bay; Shelter Island Yacht Basin; 908.10
(Dissolved Copper)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 1999/00	0.15	Federal		Develop Problem Statement Report	Mar 2000
Numeric Targets	FY 1999/00	0.1	Federal		Numeric Targets Report	Mar 2000
Source Analysis	FY 1999/00	0.3	Federal		Source Analysis Report	Jun 2000
Pollutant Load Allocations	FY 1999/00	0.35	Federal	\$175,000 (NW)	Pollutant Load Allocations Report	Aug 2000
Margin Of Safety	FY 1999/00	0.1	Federal		Margin Of Safety Report	Aug 2000
Linkage Analysis	FY 1999/00	0.05	Federal		Linkage Analysis Report	Aug 2000
EPA Technical TMDL Promulgation	FY 2000/01	0.15	Federal		EPA Technical TMDL Promulgation Report	Jan 2001
Implementation Planning						
Implementation Plan	FY 2000/01	0.55	State		Implementation Plan Report	Apr 2001
Monitoring Strategy	FY 2000/01	0.2	State		Monitoring Strategy Report	Apr 2001
Basin Plan Amendment						
Notice of Filing	FY 2000/01	0	State		Notice Of Filing Report	May 2001
Adoption of TMDL Basin Plan Amendment	FY 2000/01	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Dec 2001

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**San Diego Bay; Near Chollas Creek; 908.22
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2000/01	0.15	Federal	\$37,000 (FED), \$125,000 (NW)	Develop Problem Statement Report	Nov 2000
Numeric Targets	FY 2000/01	0.15	Federal		Numeric Targets Report	Nov 2000
Source Analysis	FY 2000/01	0.3	Federal		Source Analysis Report	Feb 2001
Pollutant Load Allocations	FY 2000/01	0.35	Federal		Pollutant Load Allocations Report	Apr 2001
Margin Of Safety	FY 2000/01	0.05	Federal		Margin Of Safety Report	Apr 2001
Linkage Analysis	FY 2000/01	0.05	Federal		Linkage Analysis Report	Apr 2001
EPA Technical TMDL Promulgation	FY 2000/01	0.15	Federal		EPA Technical TMDL Promulgation Report	Sep 2001
Implementation Planning						
Implementation Plan	FY 2001/02	0.55	State		Implementation Plan Report	Dec 2001
Monitoring Strategy	FY 2001/02	0.2	State		Monitoring Strategy Report	Dec 2001
Basin Plan Amendment						
Notice of Filing	FY 2001/02	0	State		Notice Of Filing Report	Jan 2002
Adoption of TMDL Basin Plan Amendment	FY 2001/02	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Aug 2002

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**San Diego Bay; Seventh Street Channel; 908.31
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2000/01	0.15	Federal	\$157,500 (NW)	Develop Problem Statement Report	Nov 2000
Numeric Targets	FY 2000/01	0.15	Federal		Numeric Targets Report	Nov 2000
Source Analysis	FY 2000/01	0.3	Federal		Source Analysis Report	Feb 2001
Pollutant Load Allocations	FY 2000/01	0.35	Federal		Pollutant Load Allocations Report	Apr 2001
Margin Of Safety	FY 2000/01	0.05	Federal		Margin Of Safety Report	Apr 2001
Linkage Analysis	FY 2000/01	0.05	Federal		Linkage Analysis Report	Apr 2001
EPA Technical TMDL Promulgation	FY 2000/01	0.15	Federal		EPA Technical TMDL Promulgation Report	Sep 2001
Implementation Planning						
Implementation Plan	FY 2001/02	0.55	State		Implementation Plan Report	Dec 2001
Monitoring Strategy	FY 2001/02	0.2	State		Monitoring Strategy Report	Dec 2001
Basin Plan Amendment						
Notice of Filing	FY 2001/02	0	State		Notice Of Filing Report	Jan 2002
Adoption of TMDL Basin Plan Amendment	FY 2001/02	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Aug 2002

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**San Diego Bay; San Diego Naval Station; 908.22, 908.31, 908.32, 909.10
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2001/02	0.15	Federal	\$157,500 (NW)	Develop Problem Statement Report	Nov 2001
Numeric Targets	FY 2001/02	0.15	Federal		Numeric Targets Report	Nov 2001
Source Analysis	FY 2001/02	0.3	Federal		Source Analysis Report	Feb 2002
Pollutant Load Allocations	FY 2001/02	0.35	Federal		Pollutant Load Allocations Report	Apr 2002
Margin Of Safety	FY 2001/02	0.05	Federal		Margin Of Safety Report	Apr 2002
Linkage Analysis	FY 2001/02	0.05	Federal		Linkage Analysis Report	Apr 2002
EPA Technical TMDL Promulgation	FY 2001/02	0.15	Federal		EPA Technical TMDL Promulgation Report	Sep 2002
Implementation Planning						
Implementation Plan	FY 2002/03	0.55	State		Implementation Plan Report	Dec 2002
Monitoring Strategy	FY 2002/03	0.2	State		Monitoring Strategy Report	Dec 2002
Basin Plan Amendment						
Notice of Filing	FY 2002/03	0	State		Notice Of Filing Report	Jan 2003
Adoption of TMDL Basin Plan Amendment	FY 2002/03	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Aug 2003

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**San Diego Bay; North of 24th Street Marine Terminal; 909.10
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2001/02	0.15	Federal	\$157,500 (NW)	Develop Problem Statement Report	Nov 2001
Numeric Targets	FY 2001/02	0.15	Federal		Numeric Targets Report	Nov 2001
Source Analysis	FY 2001/02	0.3	Federal		Source Analysis Report	Feb 2002
Pollutant Load Allocations	FY 2001/02	0.35	Federal		Pollutant Load Allocations Report	Apr 2002
Margin Of Safety	FY 2001/02	0.05	Federal		Margin Of Safety Report	Apr 2002
Linkage Analysis	FY 2001/02	0.05	Federal		Linkage Analysis Report	Apr 2002
EPA Technical TMDL Promulgation	FY 2001/02	0.15	Federal		EPA Technical TMDL Promulgation Report	Sep 2002
Implementation Planning						
Implementation Plan	FY 2002/03	0.55	State		Implementation Plan Report	Dec 2002
Monitoring Strategy	FY 2002/03	0.2	State		Monitoring Strategy Report	Dec 2002
Basin Plan Amendment						
Notice of Filing	FY 2002/03	0	State		Notice Of Filing Report	Jan 2003
Adoption of TMDL Basin Plan Amendment	FY 2002/03	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Aug 2003

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**San Diego Bay; Near Coronado Bridge; 908.22
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2002/03	0.15	Federal	\$157,500 (NW)	Develop Problem Statement Report	Feb 2003
Numeric Targets	FY 2002/03	0.15	Federal		Numeric Targets Report	Feb 2003
Source Analysis	FY 2002/03	0.3	Federal		Source Analysis Report	May 2003
Pollutant Load Allocations	FY 2002/03	0.35	Federal		Pollutant Load Allocations Report	Jul 2003
Margin Of Safety	FY 2002/03	0.05	Federal		Margin Of Safety Report	Jul 2003
Linkage Analysis	FY 2002/03	0.05	Federal		Linkage Analysis Report	Jul 2003
EPA Technical TMDL Promulgation	FY 2003/04	0.15	Federal		EPA Technical TMDL Promulgation Report	Dec 2003
Implementation Planning						
Implementation Plan	FY 2003/04	0.55	State		Implementation Plan Report	Mar 2004
Monitoring Strategy	FY 2003/04	0.2	State		Monitoring Strategy Report	Mar 2004
Basin Plan Amendment						
Notice of Filing	FY 2003/04	0	State		Notice Of Filing Report	Apr 2004
Adoption of TMDL Basin Plan Amendment	FY 2003/04	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Nov 2004

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**San Diego Bay; Near Sub Base; 908.10
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2002/03	0.15	Federal		Develop Problem Statement Report	Feb 2003
Numeric Targets	FY 2002/03	0.15	Federal		Numeric Targets Report	Feb 2003
Source Analysis	FY 2002/03	0.3	Federal		Source Analysis Report	May 2003
Pollutant Load Allocations	FY 2002/03	0.35	Federal		Pollutant Load Allocations Report	Jul 2003
Margin Of Safety	FY 2002/03	0.05	Federal		Margin Of Safety Report	Jul 2003
Linkage Analysis	FY 2002/03	0.05	Federal		Linkage Analysis Report	Jul 2003
EPA Technical TMDL Promulgation	FY 2003/04	0.15	Federal		EPA Technical TMDL Promulgation Report	Dec 2003
Implementation Planning						
Implementation Plan	FY 2003/04	0.55	State		Implementation Plan Report	Mar 2004
Monitoring Strategy	FY 2003/04	0.2	State		Monitoring Strategy Report	Mar 2004
Basin Plan Amendment						
Notice of Filing	FY 2003/04	0	State		Notice Of Filing Report	Apr 2004
Adoption of TMDL Basin Plan Amendment	FY 2003/04	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Nov 2004

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**San Diego Bay; Near Grape Street; 908.21
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2002/03	0.15	Federal		Develop Problem Statement Report	Aug 2003
Numeric Targets	FY 2003/04	0.15	Federal		Numeric Targets Report	Aug 2003
Source Analysis	FY 2003/04	0.3	Federal		Source Analysis Report	Nov 2003
Pollutant Load Allocations	FY 2003/04	0.35	Federal		Pollutant Load Allocations Report	Jan 2004
Margin Of Safety	FY 2003/04	0.05	Federal		Margin Of Safety Report	Jan 2004
Linkage Analysis	FY 2003/04	0.05	Federal		Linkage Analysis Report	Jan 2004
EPA Technical TMDL Promulgation	FY 2003/04	0.15	Federal		EPA Technical TMDL Promulgation Report	Jun 2004
Implementation Planning						
Implementation Plan	FY 2004/05	0.55	State		Implementation Plan Report	Sep 2004
Monitoring Strategy	FY 2004/05	0.2	State		Monitoring Strategy Report	Sep 2004
Basin Plan Amendment						
Notice of Filing	FY 2004/05	0	State		Notice Of Filing Report	Oct 2004
Adoption of TMDL Basin Plan Amendment	FY 2004/05	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	May 2005

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**San Diego Bay; Downtown Piers; 908.22
(Benthic Community Degredation, Toxicity)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2002/03	0.15	Federal		Develop Problem Statement Report	Aug 2003
Numeric Targets	FY 2003/04	0.15	Federal		Numeric Targets Report	Aug 2003
Source Analysis	FY 2003/04	0.3	Federal		Source Analysis Report	Nov 2003
Pollutant Load Allocations	FY 2003/04	0.35	Federal		Pollutant Load Allocations Report	Jan 2004
Margin Of Safety	FY 2003/04	0.05	Federal		Margin Of Safety Report	Jan 2004
Linkage Analysis	FY 2003/04	0.05	Federal		Linkage Analysis Report	Jan 2004
EPA Technical TMDL Promulgation	FY 2003/04	0.15	Federal		EPA Technical TMDL Promulgation Report	Jun 2004
Implementation Planning						
Implementation Plan	FY 2004/05	0.55	State		Implementation Plan Report	Sep 2004
Monitoring Strategy	FY 2004/05	0.2	State		Monitoring Strategy Report	Sep 2004
Basin Plan Amendment						
Notice of Filing	FY 2004/05	0	State		Notice Of Filing Report	Oct 2004
Adoption of TMDL Basin Plan Amendment	FY 2004/05	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	May 2005

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Aliso Creek, Aliso Creek Mouth, Pacific Ocean Shoreline, Aliso Beach, Pacific Ocean Shoreline, Laguna Beach HSA 901.12; Laguna Beach, Irvine Cove-Riveria, Heisler Park-North, Main Beach (Large), Laguna Ave, Cleo Street, Bluebird Canyon Road, Ocean Way, Drummond Dr. Lagunita/Blue Lagoon, South Coast Hwy At Hospital, West St, 1000 Steps, Table Rock. Pacific Ocean Shoreline, Dana Point HSA 901.14 Salt Creek (Large), Salt Creek Service Rd, Dana Strand, North Beach Creek, Capo Beach, Pacific Ocean Shoreline, Lower San Juan HSA 901.27, San Juan Creek (Large), Pacific Ocean Shoreline, San Clemente HA 901.30; Poche Beach (Large), Pico Drain (Large), El Portal Stairs, Mariposa, Linda Lane, South Linda Lane, Lifeguard Headquarters, Trafalgar Canyon, Under Pier, La Ladera, Riveria Beach, Salem Tressel, Cypress Shores, San Juan Creek, Lower, San Juan Creek Mouth 901.13, 901.12, 901.14, 901.27, 901.30, 901.20 (Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2004/05	0.3	Federal		Develop Problem Statement Report	May 2005
Numeric Targets	FY 2004/05	0.3	Federal		Numeric Targets Report	Jun 2005
Source Analysis	FY 2004/05	0.6	Federal		Source Analysis Report	Dec 2005
Pollutant Load Allocations	FY 2005/06	0.7	Federal		Pollutant Load Allocations Report	Feb 2006
Margin Of Safety	FY 2005/06	0.1	Federal		Margin Of Safety Report	Feb 2006
Linkage Analysis	FY 2005/06	0.1	Federal		Linkage Analysis Report	Feb 2006
EPA Technical TMDL Promulgation	FY 2005/06	0.3	Federal		EPA Technical TMDL Promulgation Report	Oct 2006
Implementation Planning						
Implementation Plan	FY 2006/07	1.1	State		Implementation Plan Report	Mar 2007
Monitoring Strategy	FY 2006/07	0.4	State		Monitoring Strategy Report	Mar 2007
Basin Plan Amendment						
Notice of Filing	FY 2006/07	0	State		Notice Of Filing Report	Dec 2006
Adoption of TMDL Basin Plan Amendment	FY 2006/07	1	State		Adoption OF TMDL Basin Plan Amendment Report	Nov 2007

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San Diego Bay - Chollas Creek, Pacific Ocean Shoreline, Coronado HA, 910.10; North Beach, Loma Avenue, Pine Street,
Sunset Park (Coronado) San Diego Bay Shoreline, Lindberg HSA 908.21; G St, B St Pier, San Diego Bay Shoreline, Telegraph HSA 909.12;
Chula Vista Marina; 910.10, 908.21, 909.12, 908.22
(Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2004/05	0.075	Federal		Develop Problem Statement Report	Jan 2005
Numeric Targets	FY 2004/05	0.075	Federal		Numeric Targets Report	Jan 2005
Source Analysis	FY 2004/05	0.15	Federal		Source Analysis Report	Mar 2005
Pollutant Load Allocations	FY 2004/05	0.175	Federal		Pollutant Load Allocations Report	Apr 2005
Margin Of Safety	FY 2004/05	0.025	Federal		Margin Of Safety Report	Apr 2005
Linkage Analysis	FY 2004/05	0.025	Federal		Linkage Analysis Report	Apr 2005
EPA Technical TMDL Promulgation	FY 2004/05	0.075	Federal		EPA Technical TMDL Promulgation Report	Aug 2005
Implementation Planning						
Implementation Plan	FY 2005/06	0.275	State		Implementation Plan Report	Sep 2005
Monitoring Strategy	FY 2005/06	0.1	State		Monitoring Strategy Report	Sep 2005
Basin Plan Amendment						
Notice of Filing	FY 2005/06	0	State		Notice Of Filing Report	Oct 2005
Adoption of TMDL Basin Plan Amendment	FY 2005/06	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Feb 2006

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Mission Bay- Pacific Ocean Shoreline, Scripps HA 906.30, El Paseo Grande, Del Oro, Vallecitos, Avenida De La Playa, Coast Blvd, Children'S Pool, Ravina, Vista De La Playa, Bonair, Playa Del Norte, Palomar (La Jolla); Tourmaline, Grand Avenue (Pacific Beach), Mission Bay, Tecolote Creek
906.30, 906.40, 906.50

(Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2004/05	0.15	Federal		Develop Problem Statement Report	Apr 2005
Numeric Targets	FY 2004/05	0.15	Federal		Numeric Targets Report	Apr 2005
Source Analysis	FY 2004/05	0.3	Federal		Source Analysis Report	Jul 2005
Pollutant Load Allocations	FY 2005/06	0.35	Federal		Pollutant Load Allocations Report	Sep 2005
Margin Of Safety	FY 2005/06	0.05	Federal		Margin Of Safety Report	Sep 2005
Linkage Analysis	FY 2005/06	0.05	Federal		Linkage Analysis Report	Sep 2005
EPA Technical TMDL Promulgation	FY 2005/06	0.15	Federal		EPA Technical TMDL Promulgation Report	Feb 2006
Implementation Planning						
Implementation Plan	FY 2005/06	0.55	State		Implementation Plan Report	May 2006
Monitoring Strategy	FY 2005/06	0.2	State		Monitoring Strategy Report	May 2006
Basin Plan Amendment						
Notice of Filing	FY 2005/06	0	State		Notice Of Filing Report	Jun 2006
Adoption of TMDL Basin Plan Amendment	FY 2006/07	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Jan 2007

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**San Diego River - Pacific Ocean Shoreline, San Diego HU, 907.00, San Diego River Mouth, (Ocean Beach.); 907.00
(Coliform)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2005/06	0.075	Federal		Develop Problem Statement Report	Sep 2005
Numeric Targets	FY 2005/06	0.075	Federal		Numeric Targets Report	Sep 2005
Source Analysis	FY 2005/06	0.15	Federal		Source Analysis Report	Nov 2005
Pollutant Load Allocations	FY 2005/06	0.175	Federal		Pollutant Load Allocations Report	Dec 2005
Margin Of Safety	FY 2005/06	0.025	Federal		Margin Of Safety Report	Dec 2005
Linkage Analysis	FY 2005/06	0.025	Federal		Linkage Analysis Report	Dec 2005
EPA Technical TMDL Promulgation	FY 2005/06	0.075	Federal		EPA Technical TMDL Promulgation Report	Apr 2006
Implementation Planning						
Implementation Plan	FY 2005/06	0.275	State		Implementation Plan Report	May 2006
Monitoring Strategy	FY 2005/06	0.1	State		Monitoring Strategy Report	May 2006
Basin Plan Amendment						
Notice of Filing	FY 2005/06	0	State		Notice Of Filing Report	Jun 2006
Adoption of TMDL Basin Plan Amendment	FY 2006/07	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Oct 2006

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San Dieguito River - Pacific Ocean Shoreline, San Dieguito HU 905.00; Del Mar (Anderson Canyon), San Dieguito Lagoon Mouth; 905.00 (Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2005/06	0.075	Federal		Develop Problem Statement Report	Oct 2005
Numeric Targets	FY 2005/06	0.075	Federal		Numeric Targets Report	Oct 2005
Source Analysis	FY 2005/06	0.15	Federal		Source Analysis Report	Dec 2005
Pollutant Load Allocations	FY 2005/06	0.175	Federal		Pollutant Load Allocations Report	Jan 2006
Margin Of Safety	FY 2005/06	0.025	Federal		Margin Of Safety Report	Jan 2006
Linkage Analysis	FY 2005/06	0.025	Federal		Linkage Analysis Report	Jan 2006
EPA Technical TMDL Promulgation	FY 2005/06	0.075	Federal		EPA Technical TMDL Promulgation Report	May 2006
Implementation Planning						
Implementation Plan	FY 2005/06	0.275	State		Implementation Plan Report	Jun 2006
Monitoring Strategy	FY 2005/06	0.1	State		Monitoring Strategy Report	Jun 2006
Basin Plan Amendment						
Notice of Filing	FY 2005/06	0	State		Notice Of Filing Report	Jul 2006
Adoption of TMDL Basin Plan Amendment	FY 2006/07	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Nov 2006

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Carlsbad - Pacific Ocean Shoreline , Buena Vista Creek HA 904.20; Pine Street (Carlsbad), Carlsbad Village Parkway (Carlsbad), Pacific Shoreline, San Marcos HA 904.50; Moonlight State Beach, Pacific Shoreline, Escondido Creek HA 904.60; Solana Beach, San Elijo Lagoon , San Elijo Lagoon, Carlsbad - Agua Hedionda Lagoon, Buena Vista Lagoon, Loma Alta Slough, Pacific Ocean Shoreline, Loma Alta HA 904.10, Loma Alta Creek Mouth 904.20, 904.50, 904.60, 904.10, 904.31, 904.21, 904.61
(Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2006/07	0.15	Federal		Develop Problem Statement Report	Dec 2006
Numeric Targets	FY 2006/07	0.15	Federal		Numeric Targets Report	Dec 2006
Source Analysis	FY 2006/07	0.3	Federal		Source Analysis Report	Mar 2007
Pollutant Load Allocations	FY 2006/07	0.35	Federal		Pollutant Load Allocations Report	May 2007
Margin Of Safety	FY 2006/07	0.05	Federal		Margin Of Safety Report	May 2007
Linkage Analysis	FY 2006/07	0.05	Federal		Linkage Analysis Report	May 2007
EPA Technical TMDL Promulgation	FY 2006/07	0.15	Federal		EPA Technical TMDL Promulgation Report	Oct 2007
Implementation Planning						
Implementation Plan	FY 2007/08	0.55	State		Implementation Plan Report	Jan 2008
Monitoring Strategy	FY 2007/08	0.2	State		Monitoring Strategy Report	Jan 2008
Basin Plan Amendment						
Notice of Filing	FY 2007/08	0	State		Notice Of Filing Report	Feb 2008
Adoption of TMDL Basin Plan Amendment	FY 2007/08	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Sep 2008

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**San Luis Rey River -Pacific Ocean Shoreline, San Luis Rey HU 903.00; San Luis Rey River Mouth; 903.00
(Coliform)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2006/07	0.075	Federal		Develop Problem Statement Report	Jun 2007
Numeric Targets	FY 2006/07	0.075	Federal		Numeric Targets Report	Jun 2007
Source Analysis	FY 2006/07	0.15	Federal		Source Analysis Report	Aug 2007
Pollutant Load Allocations	FY 2007/08	0.175	Federal		Pollutant Load Allocations Report	Sep 2007
Margin Of Safety	FY 2007/08	0.025	Federal		Margin Of Safety Report	Sep 2007
Linkage Analysis	FY 2007/08	0.025	Federal		Linkage Analysis Report	Sep 2007
EPA Technical TMDL Promulgation	FY 2007/08	0.075	Federal		EPA Technical TMDL Promulgation Report	Jan 2008
Implementation Planning						
Implementation Plan	FY 2007/08	0.275	State		Implementation Plan Report	Feb 2008
Monitoring Strategy	FY 2007/08	0.1	State		Monitoring Strategy Report	Feb 2008
Basin Plan Amendment						
Notice of Filing	FY 2007/08	0	State		Notice Of Filing Report	Mar 2008
Adoption of TMDL Basin Plan Amendment	FY 2007/08	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Jul 2008

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**Carlsbad - San Elijo Lagoon - Agua Hedionda Lagoon, Buena Vista Lagoon, Loma Alta Slough Eutrophication; 904.31, 904.21, 904.61, 904.10
(Eutrophication)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2007/08	0.3	Federal		Develop Problem Statement Report	Oct 2007
Numeric Targets	FY 2007/08	0.3	Federal		Numeric Targets Report	Nov 2007
Source Analysis	FY 2007/08	0.6	Federal		Source Analysis Report	May 2008
Pollutant Load Allocations	FY 2007/08	0.7	Federal		Pollutant Load Allocations Report	Jul 2008
Margin Of Safety	FY 2007/08	0.1	Federal		Margin Of Safety Report	Jul 2008
Linkage Analysis	FY 2007/08	0.1	Federal		Linkage Analysis Report	Jul 2008
EPA Technical TMDL Promulgation	FY 2008/09	0.3	Federal		EPA Technical TMDL Promulgation Report	Mar 2009
Implementation Planning						
Implementation Plan	FY 2008/09	1.1	State		Implementation Plan Report	Aug 2009
Monitoring Strategy	FY 2008/09	0.4	State		Monitoring Strategy Report	Aug 2009
Basin Plan Amendment						
Notice of Filing	FY 2008/09	0	State		Notice Of Filing Report	May 2009
Adoption of TMDL Basin Plan Amendment	FY 2009/10	1	State		Adoption OF TMDL Basin Plan Amendment Report	Apr 2010

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**Mission Bay; 906.30, 906.40, 906.50
(Eutrophication, Lead)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2007/08	0.15	Federal		Develop Problem Statement Report	May 2008
Numeric Targets	FY 2007/08	0.15	Federal		Numeric Targets Report	May 2008
Source Analysis	FY 2007/08	0.3	Federal		Source Analysis Report	Aug 2008
Pollutant Load Allocations	FY 2008/09	0.35	Federal		Pollutant Load Allocations Report	Oct 2008
Margin Of Safety	FY 2008/09	0.05	Federal		Margin Of Safety Report	Oct 2008
Linkage Analysis	FY 2008/09	0.05	Federal		Linkage Analysis Report	Oct 2008
EPA Technical TMDL Promulgation	FY 2008/09	0.15	Federal		EPA Technical TMDL Promulgation Report	Mar 2009
Implementation Planning						
Implementation Plan	FY 2008/09	0.55	State		Implementation Plan Report	Jun 2009
Monitoring Strategy	FY 2008/09	0.2	State		Monitoring Strategy Report	Jun 2009
Basin Plan Amendment						
Notice of Filing	FY 2008/09	0	State		Notice Of Filing Report	Jul 2009
Adoption of TMDL Basin Plan Amendment	FY 2009/10	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Feb 2010

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**Guajome Lake; 903.11
(Eutrophication)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2008/09	0.075	Federal		Develop Problem Statement Report	Sep 2008
Numeric Targets	FY 2008/09	0.075	Federal		Numeric Targets Report	Sep 2008
Source Analysis	FY 2008/09	0.15	Federal		Source Analysis Report	Nov 2008
Pollutant Load Allocations	FY 2008/09	0.175	Federal		Pollutant Load Allocations Report	Dec 2008
Margin Of Safety	FY 2008/09	0.025	Federal		Margin Of Safety Report	Dec 2008
Linkage Analysis	FY 2008/09	0.025	Federal		Linkage Analysis Report	Dec 2008
EPA Technical TMDL Promulgation	FY 2008/09	0.075	Federal		EPA Technical TMDL Promulgation Report	Feb 2009
Implementation Planning						
Implementation Plan	FY 2008/09	0.275	State		Implementation Plan Report	May 2009
Monitoring Strategy	FY 2008/09	0.1	State		Monitoring Strategy Report	May 2009
Basin Plan Amendment						
Notice of Filing	FY 2008/09	0	State		Notice Of Filing Report	Jun 2009
Adoption of TMDL Basin Plan Amendment	FY 2009/10	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Oct 2009

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**Santa Margarita Lagoon; 902.11
(Eutrophication)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2008/09	0.075	Federal		Develop Problem Statement Report	Nov 2008
Numeric Targets	FY 2008/09	0.075	Federal		Numeric Targets Report	Nov 2008
Source Analysis	FY 2008/09	0.15	Federal		Source Analysis Report	Jan 2009
Pollutant Load Allocations	FY 2008/09	0.175	Federal		Pollutant Load Allocations Report	Feb 2009
Margin Of Safety	FY 2008/09	0.025	Federal		Margin Of Safety Report	Feb 2009
Linkage Analysis	FY 2008/09	0.025	Federal		Linkage Analysis Report	Feb 2009
EPA Technical TMDL Promulgation	FY 2008/09	0.075	Federal		EPA Technical TMDL Promulgation Report	Jun 2009
Implementation Planning						
Implementation Plan	FY 2008/09	0.275	State		Implementation Plan Report	Jul 2009
Monitoring Strategy	FY 2008/09	0.1	State		Monitoring Strategy Report	Jul 2009
Basin Plan Amendment						
Notice of Filing	FY 2009/10	0	State		Notice Of Filing Report	Aug 2009
Adoption of TMDL Basin Plan Amendment	FY 2009/10	0.25	State		Adoption OF TMDL Basin Plan Amendment Report	Dec 2009

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Agua Hedionda Lagoon, Buena Vista Lagoon, San Elijo Lagoon ; 904.31, 904.21, 904.61

(Sediment)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2009/10	0.15	Federal		Develop Problem Statement Report	Sep 2009
Numeric Targets	FY 2009/10	0.15	Federal		Numeric Targets Report	Sep 2009
Source Analysis	FY 2009/10	0.3	Federal		Source Analysis Report	Dec 2009
Pollutant Load Allocations	FY 2009/10	0.35	Federal		Pollutant Load Allocations Report	Feb 2010
Margin Of Safety	FY 2009/10	0.05	Federal		Margin Of Safety Report	Feb 2010
Linkage Analysis	FY 2009/10	0.05	Federal		Linkage Analysis Report	Feb 2010
EPA Technical TMDL Promulgation	FY 2009/10	0.15	Federal		EPA Technical TMDL Promulgation Report	Jul 2010
Implementation Planning						
Implementation Plan	FY 2009/10	0.55	State		Implementation Plan Report	Oct 2010
Monitoring Strategy	FY 2009/10	0.2	State		Monitoring Strategy Report	Oct 2010
Basin Plan Amendment						
Notice of Filing	FY 2010/11	0	State		Notice Of Filing Report	Nov 2010
Adoption of TMDL Basin Plan Amendment	FY 2010/11	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Jun 2011

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**Los Penasquitos Lagoon; 906.10
(Sediment)**

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2009/10	0.15	Federal		Develop Problem Statement Report	May 2010
Numeric Targets	FY 2009/10	0.15	Federal		Numeric Targets Report	May 2010
Source Analysis	FY 2009/10	0.3	Federal		Source Analysis Report	Aug 2010
Pollutant Load Allocations	FY 2009/10	0.35	Federal		Pollutant Load Allocations Report	Oct 2010
Margin Of Safety	FY 2010/11	0.05	Federal		Margin Of Safety Report	Oct 2010
Linkage Analysis	FY 2010/11	0.05	Federal		Linkage Analysis Report	Oct 2010
EPA Technical TMDL Promulgation	FY 2010/11	0.15	Federal		EPA Technical TMDL Promulgation Report	Mar 2011
Implementation Planning						
Implementation Plan	FY 2010/11	0.55	State		Implementation Plan Report	Jun 2011
Monitoring Strategy	FY 2010/11	0.2	State		Monitoring Strategy Report	Jun 2011
Basin Plan Amendment						
Notice of Filing	FY 2010/11	0	State		Notice Of Filing Report	Jul 2011
Adoption of TMDL Basin Plan Amendment	FY 2011/12	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Feb 2012

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Pacific Ocean Shoreline, Tijuana HU 911.00; Tijuana River, Tijuana River Estuary; 911.00, 911.11
(Coliform)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2010/11	0.15	Federal		Develop Problem Statement Report	Mar 2011
Numeric Targets	FY 2010/11	0.15	Federal		Numeric Targets Report	Mar 2011
Source Analysis	FY 2010/11	0.3	Federal		Source Analysis Report	Jun 2011
Pollutant Load Allocations	FY 2010/11	0.35	Federal		Pollutant Load Allocations Report	Aug 2011
Margin Of Safety	FY 2011/12	0.05	Federal		Margin Of Safety Report	Aug 2011
Linkage Analysis	FY 2011/12	0.05	Federal		Linkage Analysis Report	Aug 2011
EPA Technical TMDL Promulgation	FY 2011/12	0.15	Federal		EPA Technical TMDL Promulgation Report	Jan 2012
Implementation Planning						
Implementation Plan	FY 2011/12	0.55	State		Implementation Plan Report	Apr 2012
Monitoring Strategy	FY 2011/12	0.2	State		Monitoring Strategy Report	Apr 2012
Basin Plan Amendment						
Notice of Filing	FY 2011/12	0	State		Notice Of Filing Report	May 2012
Adoption of TMDL Basin Plan Amendment	FY 2012/13	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Dec 2012

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Tijuana River and Tijuana River Estuary; 911.00, 911.11

(Low Dissolved Oxygen, Solids, Trace Metals, Synthetic Organics, Pesticides, Eutrophication, Nickel, Thallium, Lead, Trash)

Tasks	Fiscal Year	Staff Resources (pys)	Funding Source	Contracts	Products	Completion Dates
TMDL Development						
Develop Problem Statement	FY 2010/11	0.15	Federal		Develop Problem Statement Report	Mar 2011
Numeric Targets	FY 2010/11	0.15	Federal		Numeric Targets Report	Mar 2011
Source Analysis	FY 2010/11	0.3	Federal		Source Analysis Report	Jun 2011
Pollutant Load Allocations	FY 2010/11	0.35	Federal		Pollutant Load Allocations Report	Aug 2011
Margin Of Safety	FY 2011/12	0.05	Federal		Margin Of Safety Report	Aug 2011
Linkage Analysis	FY 2011/12	0.05	Federal		Linkage Analysis Report	Aug 2011
EPA Technical TMDL Promulgation	FY 2011/12	0.15	Federal		EPA Technical TMDL Promulgation Report	Jan 2012
Implementation Planning						
Implementation Plan	FY 2011/12	0.55	State		Implementation Plan Report	Apr 2012
Monitoring Strategy	FY 2011/12	0.2	State		Monitoring Strategy Report	Apr 2012
Basin Plan Amendment						
Notice of Filing	FY 2011/12	0	State		Notice Of Filing Report	May 2012
Adoption of TMDL Basin Plan Amendment	FY 2012/13	0.5	State		Adoption OF TMDL Basin Plan Amendment Report	Dec 2012