

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
A: Maximize stakeholder/ community involvement and stewardship	Target 1. Develop by 2009 a regional IRWM website to provide centralized public access to water management data and information.	<p>San Diego IRWM Program</p> <ul style="list-style-type: none"> • The San Diego IRWM program successfully launched www.sdirwmp.org website in 2008. • The San Diego IRWM program successfully launched online project database (link from www.sdirwmp.org) in 2010. • Successfully launched an online grant administration tool for projects awarded IRWM grant funding (link from www.sdirwmp.org).
	Target 2. Develop by 2008 and implement by 2010 regional approaches to water management education.	<p>Regional Efforts</p> <ul style="list-style-type: none"> • On March 24, 2008, the San Diego Municipal Stormwater Copermittees began implementing a Regional Residential Education Program. This program focused increasing the knowledge and awareness of the general public on the impacts from bacteria, nutrients, sediment, pesticides and trash on water quality. <p>San Diego IRWM Program</p> <ul style="list-style-type: none"> • The San Diego IRWM program developed a Public Outreach and Communications Plan in May 2008 and updated the plan in April 2009. This plan helped to guide public outreach and education activities associated with the regional IRWM program. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>San Diego Regional Pollution Prevention Program</i> (San Diego CoastKeeper), which includes water quality education and outreach activities throughout multiple watersheds within the region. Proposition 84 Grant is expanding these efforts by funding the <i>San Diego Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper), which will extend regional education, outreach, and monitoring by 2 years. • Proposition 50 Grant is funding the <i>Biofiltration Wetland Creation and Education Program</i> (Zoological Society of San Diego), which constructs a biofiltration wetland within the San Diego Safari Park that will be used to improve water quality, enhance wetlands habitat, reduce water consumption, and educate visitors about water conservation and wetlands.
	Target 3. Conduct water management outreach and solicit input from 2% of Region's population each year, including underserved and disadvantaged communities.	<p>San Diego IRWM Program</p> <ul style="list-style-type: none"> • The San Diego IRWM stakeholder email list has approximately 180 members from a wide range of agencies and organizations. • The Region maintains ongoing outreach to the public and DACs through RAC meetings, group presentations, the website, targeted outreach meetings, etc. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>San Diego Regional Pollution Prevention Program</i> (San Diego CoastKeeper), which water quality education and outreach activities throughout multiple watersheds within the region. Proposition 84 Grant is expanding these efforts by funding the <i>San Diego</i>

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p><i>Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper), which will extend regional education, outreach, and monitoring by 2 years.</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Biofiltration Wetland Creation and Education Program</i> (Zoological Society of San Diego), which constructs a biofiltration wetland within the San Diego Safari Park that will be used to improve water quality, enhance wetlands habitat, reduce water consumption, and educate visitors about water conservation and wetlands. • Proposition 50 Grant is funding the <i>City of San Diego Green Mall Porous Paving and Infiltration</i> (City of San Diego), which retrofits stormwater systems on two streets in the Chollas Creek Watershed, allowing urban runoff and pollutants to infiltrate into the ground instead of discharging to the storm drain system and adjacent water bodies. This project includes a public education component. • Proposition 50 Grant is funding the <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project</i> (County of San Diego), which demonstrates practical implementation of a range of low impact development (LID) practices to reduce runoff from three County facilities in the Chollas Creek Watershed.
	<p>Target 4. Provide "hands-on" stewardship opportunities in the Region's watersheds to 1% of Region's population each year, including underserved and disadvantaged communities.</p>	<p><i>Regional Efforts</i></p> <ul style="list-style-type: none"> • Various organizations throughout San Diego provide ongoing “hands-on” stewardship opportunities for residents. <p><i>San Diego IRWM Program</i></p> <ul style="list-style-type: none"> • The Region’s community and environmental organizations provide ongoing stewardship opportunities for local residents: <ul style="list-style-type: none"> ○ San Diego River Park Foundation ○ Groundwork San Diego-Chollas Creek ○ San Diego CoastKeeper ○ San Elijo Lagoon Conservancy ○ San Dieguito River Valley Conservancy ○ Lakeside River Park Conservancy ○ Jacobs Center for Neighborhood Innovation ○ Many more! <p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>San Diego Regional Pollution Prevention Program</i> (San Diego CoastKeeper), which water quality education and outreach activities throughout multiple watersheds within the region. Members of the public participate in “hands-on” river water quality monitoring through this program. Proposition 84 Grant is expanding these efforts by funding the <i>San Diego Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper), which will

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p>extend regional education, outreach, and “hands-on” water quality monitoring by 2 years.</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Biofiltration Wetland Creation and Education Program</i> (Zoological Society of San Diego), which constructs a biofiltration wetland within the San Diego Safari Park that will be used to improve water quality, enhance wetlands habitat, reduce water consumption, and educate visitors about water conservation and wetlands. The Zoological Society will provide a “hands-on” demonstration of constructed wetlands to approximately 1.5 individuals per year.
<p>B: Effectively obtain, manage, and assess water resource data and information</p>	<p>Target 1. Develop standards for the integration and assessment of water management data and information by 2010.</p>	<p><i>San Diego IRWM Program</i></p> <ul style="list-style-type: none"> The San Diego IRWM program developed an online project database for use by regional stakeholders in July 2010. The online project database allows project sponsors to add, edit, and share proposed projects with other project sponsors within the region. Mapping functionality allows project sponsors to identify synergies between proposed projects. <p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 84 Grant is funding the <i>Regional Water Data Management Program</i> (County of San Diego), which includes creation of a database of current data management efforts, prioritization of regional data needs, and creation of a framework for future development of a regional, web-based water management data and information system.
	<p>Target 2. Provide centralized public access to key water management data sets by 2010.</p>	<p><i>Regional Efforts</i></p> <ul style="list-style-type: none"> The Regional Board, partnered with the San Diego River Park Foundation, has developed a pilot website with public access to water quality data. <p><i>San Diego IRWM Program</i></p> <ul style="list-style-type: none"> The San Diego IRWM program developed an online project database for use by regional stakeholders in July 2010. The online project database allows project sponsors to add, edit, and share proposed projects with other project sponsors within the region. Mapping functionality allows project sponsors to identify synergies between proposed projects. SDCWA has developed an online web tool to track, report, and compile information relating to Proposition 50 Grant invoicing and reporting. <p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>San Diego Regional Pollution Prevention Program</i> (San Diego CoastKeeper), which water quality education and outreach activities throughout multiple watersheds within the region. The program will collect and store water quality data into two publicly accessible data portals. Proposition 84 Grant is expanding these efforts by funding the <i>San Diego Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper), which will extend regional education, outreach, and “hands-on” water quality monitoring by 2 years.

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<ul style="list-style-type: none"> Proposition 84 Grant is funding the <i>Regional Water Data Management Program</i> (County of San Diego), which includes creation of a database of current data management efforts, prioritization of regional data needs, and creation of a framework for future development of a regional, web-based water management data and information system.
C: Further scientific and technical foundation of water management	Target 1. By 2010, develop an agreed-upon system and metrics for tracking the progress of Basin Plan validation efforts through coordination with Regional Board staff.	<p>Regional Efforts</p> <ul style="list-style-type: none"> In 2011, the Regional Board established the Triennial Review Advisory Committee (TRAC) to provide feedback to staff on proposed amendments to the Basin Plan. The TRAC included representatives from the San Diego IRWM region as well as various San Diego IRWM stakeholders. <p>San Diego IRWM Program</p> <ul style="list-style-type: none"> Proposition 84 Planning Grant is funding development of a white paper on coordination between the San Diego IRWM program and Regional Board on topics of mutual interest. This white paper will identify topics that can be addressed collaboratively.
	Target 2. Conduct water quality assessment for beneficial use attainment within 75 percent of surface waters by 2015.	<p>Regional Efforts</p> <ul style="list-style-type: none"> The Regional Board is currently in the process of assessing water quality and developing TMDLs to protect beneficial uses for the water bodies listed below: <ul style="list-style-type: none"> San Diego Bay Marine Sediment TMDLs Impaired Lagoons, Adjacent Beaches, and Agua Hedionda Creek TMDL Tijuana River and Estuary TMDL Los Penasquitos Lagoon TMDL <p>San Diego IRWM Program</p> <ul style="list-style-type: none"> The RWMG will participate in the Regional Board’s process of assessing water quality and developing four TMDLs to protect beneficial uses for regional water bodies. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 84 Grant is funding the <i>Implementing Nutrient Management in the Santa Margarita River Watershed</i> project (County of San Diego), which evaluates and establishes nutrient water quality objectives for Santa Margarita Estuary that will lead to the implementation of nutrient reduction and water conservation practices in the watershed. Proposition 84 Grant is funding the <i>Lake Hodges Water Quality and Quagga Mitigation Measures</i> (SDCWA), which is assessing how to improve low water quality within Lake Hodges and how to mitigate against the potential long term effects of quagga mussels to protect beneficial uses.
	Target 3. Assess and validate Basin Plan beneficial uses and water quality	<p>Regional Efforts</p> <ul style="list-style-type: none"> In 2011, the Regional Board established the Triennial Review Advisory Committee (TRAC) to

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
	<p>objectives for the Region’s watersheds by 2017.</p>	<p>provide feedback to staff on proposed amendments to the Basin Plan. The TRAC included representatives from the San Diego IRWM region as well as various San Diego IRWM stakeholders. Through the TRAC, San Diego IRWM representatives and stakeholders assessed existing Basin Plan beneficial uses and water quality objectives, and provided recommendations for amendments or new beneficial uses that could be added to the Basin Plan.</p> <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 84 Grant includes funding for the <i>Implementing Nutrient Management in the Santa Margarita River Watershed</i> project (County of San Diego), which evaluates and establishes nutrient water quality objectives for Santa Margarita Estuary that will lead to the implementation of nutrient reduction and water conservation practices in the watershed.
	<p>Target 4. By 2013, develop an agreed-upon system and metrics for tracking groundwater assessment information.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> Water agencies within the region that qualify as Reporting Entities are working on efforts to comply with California Statewide Groundwater Elevation Monitoring (CASGEM) requirements. SDCWA partnered with the Southern California Salinity Coalition (SCSC) to develop <i>Salinity and Nutrient Management Planning Guidelines</i> for basin planning within the region. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 84 Grant is funding the <i>Regional Water Data Management Program</i> (County of San Diego), which includes creation of a database of current data management efforts, prioritization of regional data needs, and creation of a framework for future development of a regional, web-based water management data and information system.
	<p>Target 5. By 2015, develop an agreed-upon system and metrics for evaluating ocean water quality and marine habitat.</p>	<p>Nothing to report.</p>
<p>D: Develop and maintain a diverse mix of water resources</p>	<p>Target 1. Increase water conservation savings from about 51,090 AFY in 2006 to at least 79,960 AFY by 2010 and 108,400 AFY by 2030.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> SDCWA and member agencies reduced per capita water use by 27% between 2007 and 2010, and are committed to meeting a regional goal of 167 gallons per capita per day (gpcd) by 2020 under requirements of SBx7-7. Total conservation target for all member agencies is 138,400 acre-feet (AF) by 2020. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Implementation of Integrated Landscape and Agricultural Efficiency Program</i> (SDCWA), which will increase water efficiency by agricultural users through audits, retrofits, and outreach while also improving water quality through runoff reduction. Proposition 50 Grant is funding the <i>Irrigation Hardware Giveaway and Cash for Plants Program</i>

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p>(City of San Diego), which will increase water efficiency by urban customers through surveys and free irrigation hardware.</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Over-Irrigation/Runoff Reduction</i> project (City of Encinitas), which will protect and/or enhance water quality by reducing irrigation runoff through improved water use efficiency at eight pilot sites located within the Carlsbad Watershed. • Proposition 84 Grant is funding the <i>Sustainable Landscapes Program</i> (SDCWA), which includes a broad coalition of organizations, to develop and implement landscape standards and specifications consistent with the California Model Water Efficient Landscape Ordinance and the Regional Board's Municipal Stormwater Permit.
	<p>Target 2. Increase seawater desalination capability within the region from zero AFY to 34,690 AFY by 2015.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • U.S. Marine Corps Camp Pendleton and SDCWA are exploring seawater desalination opportunities. In 2009, these entities completed a feasibility study that analyzed the potential for a 50 to 150 MGD seawater desalination project on Camp Pendleton. Further studies are currently being conducted, which will evaluate various intake locations on the Camp Pendleton site. • Sweetwater Authority and the City of Oceanside desalinate brackish groundwater for municipal use. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding <i>Carlsbad Desalination Local Conveyance</i> (Olivenhain MWD), which includes construction of conveyance pipelines for the 50 MGD Carlsbad Desalination Plant, has successfully obtained regulatory permits and is ready to begin construction. This project will supply 56,000 AFY of desalinated water by 2020. • Proposition 84 Grant is funding the <i>North San Diego County Cooperative Demineralization Project</i> (San Elijo Joint Powers Authority) which is developing new local water supplies and managing water quality issues by constructing advanced water treatment facilities at the SEWRF to mitigate high TDS sources and beneficial reuse and studying the feasibility of brackish to potable water desalination.
	<p>Target 3. Increase recycled water use from about 14,830 AFY in 2006 to 33,670 AFY by 2010 and 47,580 AFY by 2030.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • Recycled water use has expanded dramatically in the last decade. SDCWA reports that recycled water from its member agencies was 27,931 AFY in 2010, and will total 48,278 AFY by 2030 (SDCWA 2010 UWMP Update). • The City of San Diego constructed an advanced water treatment demonstration project that will produce 1 million gallons of purified water per day to study technologies for indirect potable reuse and reservoir augmentation. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Padre Dam Water Reclamation Facility Expansion Project</i>

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p>(Padre Dam MWD), which expands a Title 22 treatment plant to provide recycled water to the <i>El Monte Valley Groundwater Recharge and Restoration Project</i>.</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Recycled Water Retrofit Assistance Program</i> (SDCWA), which provides direct financial assistance for conversion from potable to recycled water for landscape irrigation and other uses. • Proposition 50 Grant is funding the <i>Recycled Water Distribution System Expansion and Parklands Retrofit, and Indirect Potable Reuse/Reservoir Augmentation Demonstration Project</i> (City of San Diego), which installs recycled water pipelines, retrofits parkland irrigation for recycled water use, and constructs an advanced water treatment pilot project for indirect potable reuse/reservoir augmentation. • Proposition 84 Grant is funding the <i>North San Diego County Regional Recycled Water Project</i> (Olivenhain Municipal Water District), which will regionalize recycled water systems by identifying new agency interconnections, seasonal storage opportunities, and indirect potable water uses that will maximize supplies. • Proposition 84 Grant is funding the <i>North San Diego County Cooperative Demineralization Project</i> (San Elijo Joint Powers Authority) which is developing new local water supplies and managing water quality issues by constructing advanced water treatment facilities at the SEWRF to mitigate high TDS sources and beneficial reuse and studying the feasibility of brackish to potable water desalination.
	<p>Target 4. Increase groundwater supply within the Water Authority service area from about 14,960 AFY in 2006 to 28,580 AFY by 2010 and 31,180 AFY by 2030.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • SDCWA reports that groundwater supplies from its member agencies was 20,833 AFY in 2010, and will total 28,360 AFY by 2030 (SDCWA 2010 UWMP Update). • Sweetwater Authority and the City of Oceanside desalinate brackish groundwater for municipal use. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 is funding the <i>El Monte Valley Groundwater Recharge and Restoration Project</i> (Helix Water District), which will recharge the El Monte Valley Basin using highly treated recycled water from the <i>Padre Dam Water Reclamation Facility Expansion Project</i>, raise the groundwater level to support riparian habitat, and later extract groundwater supply for municipal use. • Proposition 50 Grant is funding the <i>Santa Margarita Conjunctive Use Project</i> (Fallbrook Public Utilities District), which aims to reduce total TDS in the groundwater basin on Camp Pendleton over time. This project will enhance recharge and recovery from the groundwater basin underlying Camp Pendleton to provide a water supply for both Pendleton and Fallbrook and resolve a long-standing water rights dispute. • Proposition 50 Grant is funding <i>South San Diego County Water Supply Strategy</i> (Sweetwater authority), which is investigating the sustainable use of the groundwater resources of the San Diego

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		Formation, a natural underground aquifer that underlies the central and south San Diego Bay area.
	Target 5. Implement Colorado River conservation and transfer programs, increasing deliveries from 35,000 AFY in 2006 to 277,700 AFY by 2030.	<p>Regional Efforts</p> <ul style="list-style-type: none"> SDCWA received 70,000 AFY in water transfers from the Colorado River in 2010, as well as 80,200 AFY from canal-lining projects. It is anticipated that by 2030, SDCWA will receive 200,000 AFY from water transfer programs and 80,200 AFY from canal-lining projects (SDCWA 2010 UWMP Update).
	Target 6. Include an analysis in the Water Authority 2010 Urban Water Management Plan (UWMP) that assesses the effect of climate change on future water supplies.	<p>Regional Efforts</p> <ul style="list-style-type: none"> SDCWA coordinated the development of their 2010 UWMP Update with all 24 member agencies, including both demand and supply assessment. SDCWA has completed a draft of their 2010 UWMP Update, which includes a discussion of the potential effect of climate change on future water supplies. In 2009, SDCWA completed a greenhouse gas (GHG) inventory, and is currently developing a GHG baseline.
	Target 7. Develop and implement regional drinking water source protection guidelines for the Region by 2012.	<p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 is funding the <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> project (SDCWA), which is acquiring and restoring lands around San Vicente Reservoir to create an expanded drinking source water protection buffer. Proposition 50 is funding the <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation), which is acquiring and restoring 120 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir, to protect source water quality at the reservoir by reducing the potential for non-point source pollution from development, removing trash and debris from the properties and planting 800 trees, and maintaining a biologically significant wildlife corridor and preserving habitat.
	Target 8. Meet groundwater supply and water quality objectives identified in the County's General Plan 2020 for groundwater-dependent communities by 2012.	<p>Regional Efforts</p> <ul style="list-style-type: none"> The County of San Diego General Plan 2020 includes many groundwater-related policies addressing reduction/avoidance of overdraft and protection of water quality. SDCWA reports that groundwater supplies from its member agencies was 20,833 AFY in 2010, and will total 28,360 AFY by 2030 (SDCWA 2010 UWMP Update). <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 is funding the <i>El Monte Valley Groundwater Recharge and Restoration Project</i> (Helix Water District), which will recharge the El Monte Valley Basin using highly treated recycled water from the <i>Padre Dam Water Reclamation Facility Expansion Project</i>, raise the groundwater level to support riparian habitat, and later extract groundwater supply for municipal use.

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Santa Margarita Conjunctive Use Project</i> (Fallbrook Public Utilities District), which aims to reduce total TDS in the groundwater basin on Camp Pendleton over time. This project will enhance recharge and recovery from the groundwater basin underlying Camp Pendleton to provide a water supply for both Pendleton and Fallbrook and resolve a long-standing water rights dispute. Proposition 50 Grant is funding <i>South San Diego County Water Supply Strategy</i> (Sweetwater authority), which is investigating the sustainable use of the groundwater resources of the San Diego Formation, a natural underground aquifer that underlies the central and south San Diego Bay area.
E: Construct, operate, and maintain a reliable infrastructure system	Target 1. Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries.	<p>Regional Efforts</p> <ul style="list-style-type: none"> SDCWA’s Emergency Storage Project (ESP) will increase local emergency water supply reliability by providing up to six months of emergency water storage through a system of reservoirs, pipelines, and pumping stations. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>San Diego Reservoir Intertie Project Conceptual Design</i> (Sweetwater Authority), which provides an initial design and work plan for a conveyance system that will increase the capability to manage and store imported water in four existing reservoir systems, making the San Diego Region more resistant to drought and water delivery service interruptions.
	Target 2. Increase local treatment of imported and local surface waters from 597 mgd to 860 mgd in 2010 and 920 mgd in 2030.	<p>Regional Efforts</p> <ul style="list-style-type: none"> SDCWA completed the Twin Oaks Valley Treatment Plant in 2008, adding 100 mgd capacity to regional total. In total, SDCWA reports that the current in-region treatment plan capacity is 728 mgd (SDCWA 2010 UWMP Update). Olivenhain MWD and City of San Diego have also expanded water treatment capacity since 2005. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Padre Dam Water Reclamation Facility Expansion Project</i> (Padre Dam MWD), which expands a Title 22 treatment plant to provide recycled water to the <i>El Monte Valley Groundwater Recharge and Restoration Project</i>. Proposition 84 Grant is funding the <i>North San Diego County Cooperative Demineralization Project</i> (San Elijo Joint Powers Authority) which is developing new local water supplies and managing water quality issues by constructing advanced water treatment facilities at the SEWRF to mitigate high TDS sources and beneficial reuse and studying the feasibility of brackish to potable water desalination. Proposition 84 Grant is funding the <i>Rural Disadvantaged Communities Partnership Project</i> (Rural Communities Assistance Corporation), which provides funding to address inadequate water supply

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		and water quality affecting rural DACs, including tribal communities. The project will reduce potential for high public health risks in water and/or wastewater systems.
	<p>Target 3. Develop the conveyance facilities necessary to deliver a reliable supply and assure adequate resources to maintain existing conveyance systems.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> As part of the ESP, SDCWA is constructing two pipelines to augment the regional conveyance system and emergency delivery capacity. The Lake Hodges pipeline is scheduled for completion in 2010 and the San Vicente pipeline in 2013. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding <i>Carlsbad Desalination Local Conveyance</i> (Olivenhain MWD), which includes construction of conveyance pipelines for the 50 MGD Carlsbad Desalination Plant, which has successfully obtained regulatory permits and is ready to begin construction. This project will supply 56,000 AFY of desalinated water by 2020. Proposition 50 Grant is funding the <i>San Diego Reservoir Intertie Project Conceptual Design</i> (Sweetwater Authority), which provides an initial design and work plan for a conveyance system that will increase the capability to manage and store imported water in four existing reservoir systems, making the San Diego Region more resistant to drought and water delivery service interruptions. Proposition 84 Grant is funding the <i>Rural Disadvantaged Communities Partnership Project</i> (Rural Communities Assistance Corporation), which provides funding to address inadequate water supply and water quality affecting rural DACs, including tribal communities. The project will reduce potential for high public health risks in water and/or wastewater systems.
	<p>Target 4. Develop the infrastructure needed to support the targets identified for developing recycled water, desalination, and groundwater supplies.</p>	See above.
<p>F: Reduce the negative effects on waterways and watershed health caused by hydromodification and</p>	<p>Target 1. Develop and implement regional standards for Low Impact Development (LID) practices by 2010.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> In January 2009, the MS4 Copermittees' completed a Countywide Model Standard Urban Stormwater Mitigation Plan (SUSMP), which includes a design guide for LID. The 2011 update of the Model SUSMP incorporated the integration of LID and hydromodification requirements into the best management practices for priority development projects. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>City of San Diego Green Mall Porous Paving and Infiltration</i> (City of San Diego), which retrofits stormwater systems on two streets in the Chollas Creek Watershed, allowing urban runoff and pollutants to infiltrate into the ground instead of discharging

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
flooding		<p>to the storm drain system and adjacent water bodies.</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project</i> (County of San Diego), which demonstrates practical implementation of a range of low impact development (LID) practices to reduce runoff from three County facilities in the Chollas Creek Watershed. Proposition 84 Grant is funding the <i>Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection Project</i> (City of San Diego), which will reduce the pollutant load and volume of runoff entering the storm drain system in the Tecolote Creek Watershed through bioretention and treatment planters through curb cutouts.
	<p>Target 2. Develop and implement regional approaches to hydromodification management by 2010.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> The Stormwater Copermittees developed a Hydromodification Plan that was adopted by the San Diego Regional Water Quality Control Board on July 14, 2010, and incorporated the plan and hydromodification criteria into the Model SUSMP on January 14, 2011. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>City of San Diego Green Mall Porous Paving and Infiltration</i> (City of San Diego), which retrofits stormwater systems on two streets in the Chollas Creek Watershed, allowing urban runoff and pollutants to infiltrate into the ground instead of discharging to the storm drain system and adjacent water bodies. Proposition 50 Grant is funding the <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project</i> (County of San Diego), which demonstrates practical implementation of a range of low impact development (LID) practices to reduce runoff from three County facilities in the Chollas Creek Watershed. Proposition 84 Grant is funding the <i>Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection Project</i> (City of San Diego), which will reduce the pollutant load and volume of runoff entering the storm drain system in the Tecolote Creek Watershed through bioretention and treatment planters through curb cutouts.
	<p>Target 3. By 2010, implement a system to track rates of change in area of impervious surfaces regionally.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> A model of impervious surfaces for the entire San Diego River watershed has been completed. This model has refined coefficients from high resolution aerial photographs that are unique to San Diego County and allow for reliable prediction of changes in imperviousness due to development. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>City of San Diego Green Mall Porous Paving and Infiltration</i> (City of San Diego), which retrofits stormwater systems on two streets in the Chollas Creek Watershed, allowing urban runoff and pollutants to infiltrate into the ground instead of discharging

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p>to the storm drain system and adjacent water bodies.</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project</i> (County of San Diego), which demonstrates practical implementation of a range of low impact development (LID) practices to reduce runoff from three County facilities in the Chollas Creek Watershed. • Proposition 84 Grant is funding the <i>Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection Project</i> (City of San Diego), which will reduce the pollutant load and volume of runoff entering the storm drain system in the Tecolote Creek Watershed through bioretention and treatment planters through curb cutouts. • Proposition 84 Grant is funding the <i>Pilot Concrete Channel Infiltration Project</i> (City of Santee), which will convert a portion of the concrete channel in Woodglen Vista Creek to a more porous base, facilitating infiltration of dry weather flows without compromising flood control capacity.
G: Effectively reduce sources of pollutants and environmental stressors	Target 1. Implement Total Maximum Daily Loads (TMDLs) according to established schedules.	Regional Efforts <ul style="list-style-type: none"> • The Regional Board and jurisdictions with implementation responsibilities are currently on schedule with the adopted TMDLs as listed below: <ul style="list-style-type: none"> ◦ Rainbow Creek Nitrogen and Phosphorus TMDL ◦ Shelter Island Yacht Basin Copper TMDL ◦ Chollas Creek Diazinon TMDL ◦ Chollas Creek Copper, Lead and Zinc TMDL
	Target 2. Reduce or avoid the need for TMDLs by monitoring and managing impacts to receiving waters, with an emphasis on 303(d)-listed water bodies and other Environmentally Sensitive Areas.	San Diego IRWM Projects <ul style="list-style-type: none"> • The Proposition 50 and the Proposition 84 Grants are funding numerous projects that aim to reduce water quality issues and reduce or avoid the need for TMDLs throughout the San Diego Region. <ul style="list-style-type: none"> ◦ <i>San Diego Regional Pollution Prevention / San Diego Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper) ◦ <i>Over-Irrigation/Bacteria Reduction</i> (City of Encinitas) ◦ <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> (SDCWA) ◦ <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation) ◦ <i>Biofiltration Wetland Creation and Education Program</i> (Zoological Society of San Diego) ◦ <i>San Dieguito Watershed Management Plan Implementation -- Lake Hodges Natural Treatment System Conceptual Design</i> (San Dieguito Watershed Council) ◦ <i>City of San Diego Green Mall Porous Paving and Infiltration</i> (City of San Diego) ◦ <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project</i> (County of San Diego)

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<ul style="list-style-type: none"> ○ <i>Lake Hodges Water Quality and Quagga Mitigation Measures</i> (SDCWA) ○ <i>Implementing Nutrient Management in the Santa Margarita River Watershed</i> (County of San Diego) ○ <i>Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection</i> (City of San Diego) ○ <i>Pilot Concrete Channel Infiltration Project</i> (City of Santee)
	<p>Target 3. Develop by 2012 a regional management plan for Total Dissolved Solids (TDS).</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • In 1999, the Metropolitan Water District of Southern California implemented a Salinity Management Policy to address TDS levels in imported water sources. • SDCWA partnered with the Southern California Salinity Coalition (SCSC) to develop <i>Salinity and Nutrient Management Planning Guidelines</i> for basin planning within the region. <p>San Diego IRWM Program</p> <ul style="list-style-type: none"> • Proposition 84 Planning Grant will fund multiple Salinity and Nutrient Management Plans within the IRWM region. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • Proposition 50 Grant is funding the <i>Santa Margarita Conjunctive Use Project</i> (Fallbrook Public Utilities District), which aims to reduce total TDS in the groundwater basin on Camp Pendleton over time. This project will enhance recharge and recovery from the groundwater basin underlying Camp Pendleton to provide a water supply for both Pendleton and Fallbrook and resolve a long-standing water rights dispute. • Proposition 84 Grant is funding the <i>North San Diego County Cooperative Demineralization Project</i> (San Elijo Joint Powers Authority) which is developing new local water supplies and managing water quality issues by constructing advanced water treatment facilities at the SEWRF to mitigate high TDS sources and beneficial reuse and studying the feasibility of brackish to potable water desalination.
	<p>Target 4. Develop and implement comprehensive source management strategies to address regionally-significant constituents (e.g., pathogens, nutrients, sediments).</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • The Regional Board and jurisdictions with implementation responsibilities are working to develop and implement multiple TMDLs that address regionally-significant constituents. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> • The Proposition 50 and the Proposition 84 Grants are funding numerous projects that aim to reduce water quality issues and reduce or avoid the need for TMDLs throughout the San Diego Region. <ul style="list-style-type: none"> ○ <i>San Diego Regional Pollution Prevention / San Diego Regional Water Quality Assessment and Outreach Project</i> (San Diego CoastKeeper) ○ <i>Over-Irrigation/Bacteria Reduction</i> (City of Encinitas)

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<ul style="list-style-type: none"> ○ <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration (SDCWA)</i> ○ <i>El Capitan Reservoir Watershed Acquisition and Restoration Program (San Diego River Park Foundation)</i> ○ <i>Biofiltration Wetland Creation and Education Program (Zoological Society of San Diego)</i> ○ <i>San Dieguito Watershed Management Plan Implementation -- Lake Hodges Natural Treatment System Conceptual Design (San Dieguito Watershed Council)</i> ○ <i>City of San Diego Green Mall Porous Paving and Infiltration (City of San Diego)</i> ○ <i>Chollas Creek Runoff Reduction and Groundwater Recharge Project (County of San Diego)</i> ○ <i>Lake Hodges Water Quality and Quagga Mitigation Measures (SDCWA)</i> ○ <i>Implementing Nutrient Management in the Santa Margarita River Watershed (County of San Diego)</i> ○ <i>Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection (City of San Diego)</i> ○ <i>Pilot Concrete Channel Infiltration Project (City of Santee)</i>
	<p>Target 5. Reduce the frequency of sanitary sewer overflows in excess of 1,000 gallons from 180 overflows per year in 2005 to 120 overflows per year in 2012.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • The City of San Diego is currently working on multiple methods to reduce sanitary sewer overflows (SSOs) through their Sewer Spill Reduction Program. This program has led to a 79% reduction in spills since 2000. • The County of San Diego completed a Sewer System Management Plan in 2010, which has the goal of minimizing SSOs in the County's jurisdiction.
	<p>Target 6. Reduce the volume of sanitary sewer overflows per mile of collection system.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • The City of San Diego is currently working on multiple methods to reduce sanitary sewer overflows (SSOs) through their Sewer Spill Reduction Program. This program has led to a 79% reduction in spills since 2000. • The County of San Diego completed a Sewer System Management Plan in 2010, which has the goal of minimizing SSOs in the County's jurisdiction.
<p>H: Protect, restore and maintain habitat and open space</p>	<p>Target 1. Conserve by 2012 a minimum of 10,000 acres of habitat and open space, including functional riparian habitat and associated buffer habitat, and functional wetland habitat.</p>	<p>Regional Efforts</p> <ul style="list-style-type: none"> • As of 2010, the San Diego County Multiple Species Conservation Program (MSCP) had led to local acquisition of 6,454 acres of land and federal/state acquisition of 29,050 acres of land. • As of 2009, the City of San Diego MSCP had led to conservation of 33,215 acres of land. • In 2010, SDCWA finalized their Subregional Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP) to protect threatened and engendered species on reservoir lands.

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		<p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 50 is funding the <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> project (SDCWA), which is acquiring and restoring lands around San Vicente Reservoir to create an expanded drinking source water protection buffer. Proposition 50 is funding the <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation), which is acquiring and restoring 120 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir, to protect source water quality at the reservoir by reducing the potential for non-point source pollution from development, removing trash and debris from the properties and planting 800 trees, and maintaining a biologically significant wildlife corridor and preserving habitat.
	<p>Target 2. Restore by 2012 a minimum of 1,000 acres of habitat and open space, functional riparian habitat and associated buffer habitat, and functional wetland habitat.</p>	<p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Northern San Diego County Invasive Non-Native Species Control Program</i>, which will eradicate 374 acres of targeted invasive non-native plant species throughout Northern San Diego County to protect and enhance habitat. Proposition 50 is funding the <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> project (SDCWA), which is acquiring and restoring lands around San Vicente Reservoir to create an expanded drinking source water protection buffer. Proposition 50 is funding the <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation), which is acquiring and restoring 120 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir, to protect source water quality at the reservoir by reducing the potential for non-point source pollution from development, removing trash and debris from the properties and planting 800 trees, and maintaining a biologically significant wildlife corridor and preserving habitat. Proposition 84 Grant is funding <i>Chollas Creek Integration Project</i> (Jacobs Center for Neighborhood Innovation), which will update the Chollas Creek Enhancement Program and restore native habitat and reduce flooding hazards within Chollas Creek (Section 2A).
	<p>Target 3. Remove and control a minimum of 1,000 acres of non-native invasive plants by 2012.</p>	<p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 50 Grant is funding the <i>Northern San Diego County Invasive Non-Native Species Control Program</i>, which will eradicate 374 acres of targeted invasive non-native plant species throughout Northern San Diego County to protect and enhance habitat.
	<p>Target 4. Monitor, manage, control, and prevent establishment of nuisance aquatic species in the Region.</p>	<p><i>San Diego IRWM Projects</i></p> <ul style="list-style-type: none"> Proposition 84 Grant is funding the <i>Lake Hodges Water Quality and Quagga Mitigation Measures</i> (SDCWA), which is assessing how to improve low water quality within Lake Hodges and how to

San Diego IRWM Report Card

Appendix B: Progress Toward Achieving IRWM Plan Targets

Objective	Targets for Achieving Objective	Progress to Date
		mitigate against the potential long term effects of quagga mussels to protect beneficial uses.
I: Optimize water-based recreational opportunities	Target 1. Develop 200 acres of water-based recreational open space that focuses on underserved areas and ensures equal access for disadvantaged communities.	<p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 is funding the <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> project (SDCWA), which is acquiring and restoring lands around San Vicente Reservoir to create an expanded drinking source water protection buffer. Proposition 50 is funding the <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation), which is acquiring and restoring 120 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir, to protect source water quality at the reservoir by reducing the potential for non-point source pollution from development, removing trash and debris from the properties and planting 800 trees, and maintaining a biologically significant wildlife corridor and preserving habitat. Proposition 84 Grant is funding <i>Chollas Creek Integration Project</i> (Jacobs Center for Neighborhood Innovation), which will update the Chollas Creek Enhancement Program and restore native habitat and reduce flooding hazards within Chollas Creek (Section 2A). Later phases of this project will create a multi-modal creek trail system within portions of Chollas Creek in the disadvantaged community of Encanto.
	Target 2. By 2015 provide 20 new public access points (boat launch facilities, fishing floats or piers, swim beaches, trails, stairs, parking areas, or similar) to recreational surface waters.	<p>Regional Efforts</p> <ul style="list-style-type: none"> San Diego provides more than 45 recreational trails available for hiking, bird-watching, and picnicking at local reservoirs, lagoons, and bays. San Diego has 18 boat-launching areas providing recreational fishing and boating access to local water supply reservoirs. <p>San Diego IRWM Projects</p> <ul style="list-style-type: none"> Proposition 50 is funding the <i>San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration</i> project (SDCWA), which will provide increased open space areas and potentially increase recreational access to the San Vicente Reservoir. Proposition 50 is funding the <i>El Capitan Reservoir Watershed Acquisition and Restoration Program</i> (San Diego River Park Foundation), which will provide increased open space areas and potentially increase recreational access to the El Capitan Reservoir. Proposition 84 Grant is funding <i>Chollas Creek Integration Project</i> (Jacobs Center for Neighborhood Innovation), which will include a multi-modal creek trail system that will be available to local residents for recreational purposes.