

**San Diego Integrated Regional Water Management Plan  
Proposition 50, Chapter 8, Round 2 Implementation Grants  
Projects Proposed for Grant Funding**

Title	Proponent	Total Project Cost	Recommended Grant Funding Amount	Abstract
City of SD Recycled Water Distribution System Expansion and Parklands Retrofit	City of San Diego Water Department	\$15,000,000	\$3,325,000	This project has two parts. Part 1 will install 18,000 feet of new recycled water pipe to distribute 1500 AFY of recycled water to irrigate community open spaces, medians, slopes, and the SR-56 freeway - all located in the north of the City of San Diego. Part 2 will extend the existing recycled water distribution system to selected City of San Diego parklands and retrofit irrigation systems at these parklands to use recycle water, creating an additional 209 AFY demand for recycled water. The City has committed to beneficially reuse 50% of the flows from its North City Water Reclamation Plant by 2010. By distributing recycled water and creating demand, this project moves the City substantially toward that goal. Using recycled water reduces imported water demand and increases local water supply, and results in less wastewater to be treated and the discharged into the ocean.
San Vicente Reservoir Source Water Protection through Watershed Property Acquisition	City of San Diego Water Department	\$1,250,000	\$1,000,000	This project will acquire lands around San Vicente Reservoir for the purpose of creating an expanded drinking source water protection buffer. San Vicente Reservoir is being enlarged to nearly 200,000AF as part of CWA's Emergency Storage Project. San Vicente is the keystone in San Diego's reservoir system, ultimately supplying water to nearly two million people. The buffer will provide high quality habitat and protect associated sensitive species. Lands more distant from the reservoir, but still within its watershed, will also be identified and acquired for the purpose of source water protection.
City of San Diego Green Mall Porous Paving and Infiltration, Phase 1	City of San Diego Storm Water Program	\$500,000	\$250,000	This pilot project (Phase 1) will retrofit storm water systems on two commercial & industrial streets in the Chollas Creek sub-watershed of the Pueblo Hydrologic Unit (in the City of San Diego), allowing urban runoff and pollutants carried with it to infiltrate into the ground instead of discharging directly to the storm drain system and adjacent waterbodies. Existing asphalt street paving will be replaced with pervious concrete. Existing curbs & gutters will be moved into the street, and bio-retention systems of crushed rock and trees will be installed in the created space. The project will include water quality monitoring and educational outreach.
Consolidated Agriculture and Landscape Water Efficiency and Over-Irrigation Runoff Reduction Program	City of San Diego Water Department, San Diego County Water Authority, City of Encinitas	\$10,924,690	\$3,335,000 City of San Diego's portion: \$1,088,000	This project supports regional efforts to increase water efficiency in the agriculture industry and in the area of landscape irrigation while also improving water quality through runoff reduction. The Water Authority will conduct agricultural audits that will aim to improve water efficiency without compromising crops or production. This will include an assessment of agriculture, by crop and water requirement. A combined effort to address landscape water efficiency by the Water Authority, the City of San Diego, and the City of Encinitas will focus on implementation of state-of-the-art efficiency irrigation hardware, landscape surveys, water budgets, communication of water use targets, demonstration of financial viability, incentives to promote change, and promotion of low water use landscapes. It will also include a web-driven water budget program and landscape measurement tool that will enable the Water Authority to measure all landscaped areas countywide and set a measurable conservation target for the region. Increasing and documenting the benefits of increased irrigation efficiency to water quality is an important co
City of San Diego Municipal Rooftop Rain Harvesting, Phase 1	City of San Diego Storm Water Program	\$150,000	\$50,000	This pilot project will install rooftop rain harvesting systems on 30 to 60 City of San Diego facilities to capture rain water for landscape irrigation. Captured rooftop runoff will be stored one-site and used in existing irrigations systems, or will be directed to infiltration areas. The quality and quantity of captured rooftop runoff will be monitored, as will operational aspects of the systems. This information will be used to develop recommendations for broader applications. This project will reduce urban runoff pollution and conserve potable water. The project is identified in the City's draft Strategic Plan for Watershed Activity Implementation.

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Carlsbad Desalination Project Local Conveyance	Olivenhain Municipal Water District	\$80,000,000	\$2,000,000	This project will provide 56,000 AFY of new water supply for the San Diego region through the design and construction of pipelines and facilities to serve local desalinated water from the Carlsbad Desalination Project to San Diego County Water Authority member agencies, including Carlsbad Municipal Water District, City of Oceanside, Olivenhain Municipal Water District, Vallecitos Water District, Vista Irrigation District and Santa Fe Irrigation District. The Project provides the project participants with a secure and reliable water supply for 30 years with two possible 30-year extensions. Benefits include a local source of potable water, improved water supply reliability and improved water quality. This project includes conveyance infrastructure alone (excludes the desalination facility itself).
Conservation in the Campo Valley	Back Country Land Trust of San Diego County	\$5,600,000	\$650,000	This land acquisition project will acquire and protect 1,600 acres of land in the Campo Watershed (Tijuana River Watershed). Benefits include protection of the local water supply (the only water supply for this area), protection of habitat lands that recharge groundwater, protection of habitat lands that serve as floodplains and channels for surface water, protection of critical linkages and wildlife corridors for sensitive plant and animal species, restoration of natural habitat areas through the removal of invasive species, education of disadvantaged, backcountry communities about their watershed and how their behavior directly affects the health of the groundwater, prevention of exportation of groundwater from the Campo Watershed basin.
County of San Diego Chollas Creek Runoff Reduction and Groundwater Recharge Project	Department of General Services, County of San Diego	\$1,600,000	\$600,000	This project will demonstrate practical implementation of a range of LID practices to reduce runoff from three County of San Diego facilities in the Chollas Creek subwatershed of the Pueblo San Diego hydrological unit. These facilities occupy sites that are highly impervious and could be retrofitted with LID components to reduce runoff and promote infiltration. The project would include demonstrations of porous pavements over stone reservoirs, vegetated roof systems, capture/reuse technologies and landscape elements such as rain gardens. The project helps to reduce transport of pollutants to Chollas Creek, which is listed as impaired by copper, lead, and zinc and is the subject of a TMDL.
Educational Demonstration Wetland Project	Zoological Society of San Diego	\$830,000	\$700,000	This project will develop a demonstration wetland within the San Diego Wild Animal Park which will be used to educate visitors about water conservation and the importance of conserving wetlands. The wetlands will improve water quality within the Park through natural biological filtration, enhance wetlands habitat, and reduce water consumption. The constructed wetlands will be biological filters that are very effective at removing high biological oxygen demand (BOD), total suspended solids, organic nitrogen, and nitrates. In addition to constructed wetlands, providing pond edge habitat is also important for this project.
El Capitan Reservoir Watershed Acquisition Program	The San Diego River Park Foundation	\$1,217,000	\$900,000	This project will acquire two properties representing approximately 250 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir. The project would place the last piece of privately owned property at the reservoir high water mark into public hands. Purchases of two other private inholdings near the reservoir would eliminate the requirement for the National Forest Service to construct access roads to those properties. The project will protect source water quality at the reservoir by reducing the potential for non-point source pollution from development, while also maintaining a biologically significant wildlife corridor and preserving habitat.

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El Monte Valley Groundwater Recharge and River Restoration Project - Phases 1 and 2	Helix Water District	\$62,500,000	\$2,500,000	This project, located in Lakeside, would recharge the El Monte Valley Basin using highly treated recycled water, raise the groundwater level to support habitat restoration and subsequently withdraw up to 5,000 AFY of groundwater to supply the R.M. Levy Water Treatment Plant. Phase 1 would develop the necessary Groundwater Management Plan and institutional support, and Phase 2 includes design and construction of spreading basins, conveyance pipelines and river restoration. Benefits include restoration of natural habitat, improvement of the water quality, and expansion of the local water portfolio by providing a new renewable water supply. This project is integrally linked to the Santee Water Reclamation Facility Expansion Project.
Green – San Dieguito	Department of Parks and Recreation	\$1,200,000	\$450,000	This land acquisition project will add 29.88 acres to adjacent preserved land in the Escondido Creek watershed, adding to the beneficial uses of pollution prevention and habitat preservation in the watershed. This land acquisition forms part of a quilt of acquisitions by other governmental organizations and conservancies. In 2000, the San Dieguito Planning Group, acting on advice from The Escondido Creek Conservancy, added this parcel to the top priority wish-list of acquisitions. Escondido Creek flows into the San Elijo Lagoon, which is a Section 303(d) impaired water body. By ensuring the preservation of this and other property, natural filtration mechanisms will remain.
Northern San Diego County Invasive Non-Native Species Control Program	Mission Resource Conservation District (MRCD)	\$9,640,000	\$1,000,000	This project is part of an existing program in northern San Diego County to eradicate targeted invasive non-native plant species. It would protect and enhance habitat in the San Juan, Santa Margarita, San Luis Rey, Carlsbad and San Dieguito watershed, conserve water resources by increasing available groundwater, protect water delivery and storage systems by reducing flood risk and damage, and improve water quality by reducing erosion through minimizing bank failures and normalizing sediment discharge processes, fire events, and NPS pollution. This project would result in the treatment and re-vegetation of 112.5 acres of invasive non-native plant species. Control of invasive species and native re-vegetation of riparian habitat would benefit many federally endangered species in the area.
Recycled Water Retrofit Assistance Program	San Diego County Water Authority	\$1,600,000	\$800,000	This project will offer direct financial assistance to homeowners' associations, public agencies, and other customer types to facilitate the retrofitting of these user sites and converting these users from a potable water source to recycled water. The Project will be designed to reimburse all, or a portion of the reasonable costs incurred by customers for the retrofit work which has been previously reviewed and approved by applicable member agency staff. The goal of the Water Authority's Recycled Water Project is to promote the development and use of recycled water capable of supplying 5% of the region's water demand by 2011.
San Diego Region Four Reservoir Intertie Project Feasibility Study	Sweetwater Authority	\$3,000,000	\$750,000	This project is a feasibility study to connect four reservoirs of the Sweetwater Authority and the City of San Diego: San Vicente, El Capitan, Loveland, and Murray Reservoirs. The project would make more efficient use of the reservoirs, increase the region's water supply reliability, increase accessibility to ~100,000 AF of surface storage, more efficiently supply water at the lowest possible cost, and take advantage of energy management opportunities. Because the project uses existing reservoirs, the environmental effects of adding storage would be minimal.
San Diego Regional Water Quality Assessment and Outreach Project	San Diego Coastkeeper	\$824,500	\$700,000	This project will assess the water quality within San Diego County through citizen monitoring. It seeks to establish a baseline of data that will be transferable to the local communities that live in this watershed. Data collected through this project will be incorporated into two web-based, publicly accessible data portals. Stakeholder involvement and community participation are at the core of this project. The project will teach a minimum of 300 members of the community – citizens, decision makers, tribal members, and stakeholders - how to access publicly available water quality data and to analyze and interpret these data to identify water quality impacts on a watershed level.

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San Diego River Watershed Coordinator	The San Diego River Park Foundation	\$115,000	\$100,000	<p>This project will support the creation of a watershed coordinator for the San Diego River Watershed as identified in the San Diego River Watershed Management Plan.</p> <p>Funding will support a coordinator for 2 years and will allow for identification of long-term funding strategies and sources to continue the effort beyond the grant period.</p> <p>The coordinator will support the efforts of the IRWMP by coordinating stakeholders groups and their projects, with particular attention to disadvantaged communities. The project includes data management through a clearinghouse tracking project status and archiving data collected throughout the watershed. An annual "State of the Watershed" report will be used for public education and outreach.</p>
San Dieguito Watershed Council Staffing	San Dieguito River Valley Conservancy	\$100,000	\$90,000	<p>This project will support a part-time (20 hours per week) staff position for the newly-formed San Dieguito Watershed Council (Council) for three years beginning in 2008. The staff position will provide project management to be able to assist with grant writing and reporting, coordinating the activities and work products of the Working Groups, overseeing specific projects, managing public relations and providing administrative support. Creating this staff position will allow the Council to begin implementation of the San Dieguito Watershed Management Plan, which includes projects coordinated throughout the watershed offering benefits of habitat restoration, water quality improvement and water conservation.</p>
Santa Margarita Conjunctive Use Project	Fallbrook Public Utility District	\$60,000,000	\$2,500,000	<p>This project provides for enhanced recharge and recovery from the groundwater basin on Camp Pendleton to provide a water supply for both Camp Pendleton and Fallbrook as resolution of the long-standing water rights disputes between the U.S. and Fallbrook. The project also includes a seawater intrusion barrier using recycled water and a distribution system able to deliver water both to Fallbrook PUD and the SDCWA aqueduct system. The project provides approximately 6500 AFY of new local supply from the Santa Margarita River by conjunctively managing the groundwater basins on Camp Pendleton. Additionally 1380 acres of sensitive habitat will be preserved along the river as a result of this project.</p>
Santee Water Reclamation Facility Expansion Project.	Padre Dam Municipal Water District	\$23,000,000	\$3,000,000	<p>This project includes feasibility studies for increasing the Santee Water Reclamation Facility in two stages, from 2 MGD to 4 MGD and from 4 MGD to 10 MGD, to meet the combined demands of customers, Santee Lakes and the El Monte Valley Recharge Project. This phase of the project also includes design and construction of WRF expansion to 4MGD, configured for 10MGD expansion and advanced treatment upgrade in Phase III of El Monte Valley Groundwater Recharge and River Restoration Project. Benefits of this project include 5,000 AF of new water and reduction in the future Point Loma Treatment Plant capacity upgrades.</p>
South San Diego County Water Supply Strategy	Sweetwater Authority	\$1,350,000	\$300,000	<p>This project investigates the sustainable use of the San Diego Formation (SDF). Reliable assessments currently estimate that the SDF holds upward of 1,000,000 acre-feet of water; this extensive local water resource has the potential to significantly supplement water supplies and reduce dependence on imported water through its efficient development and use. The project would consist of a hydrogeologic study of the SDF to further understanding of sustainable water extraction and potential in-lieu conjunctive use.</p>