

## San Diego IRWM Report Card

### Appendix C: Proposition 50 and Proposition 84 Project Overviews

#### Project Performance - Implementation of Integrated Landscape and Agricultural Efficiency

Sponsor: San Diego County Water Authority (SDCWA)

Program Area: Conservation

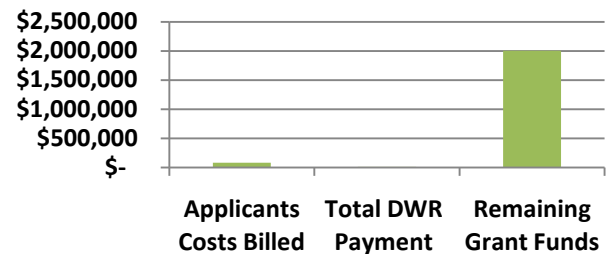
##### Project Description

This project aims to increase water efficiency in urban landscapes and agricultural practices, and improve water quality by reducing runoff associated with excessive irrigation. Through this project, SDCWA intends to conduct agricultural audits that will improve water efficiency without compromising crops or agricultural production. SDCWA will also address landscape water efficiency by completing a series of outreach, education, and retrofitting programs. The programs that comprise this project have the potential to achieve over 3,600 AFY of water savings.



##### Project Status

This project currently is undergoing a revision process by SDCWA, to update Task 1 to address adjustments to water conservation program elements necessary to ensure optimal alignment with the San Diego region's current water conservation priorities. To date minimal grant funds have been billed for this project, and approximately \$2,000,000 grant funds are remaining.



#### Project Performance - Irrigation Hardware Giveaway and Cash for Plants Project

Sponsor: City of San Diego, Public Utilities Department

Program Area: Conservation

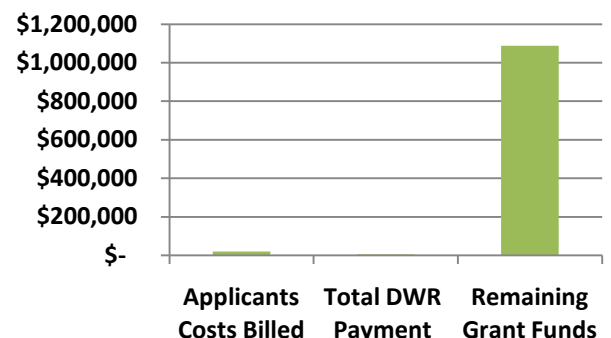
##### Project Description

This project aims at providing City of San Diego customers with customer irrigation surveys and analysis, system improvements, and irrigation hardware at no costs. This project also consists of implementing a rebate program (Cash for Plants) that encourages residential customers to convert to low water use landscapes.



##### Project Status

To date, this project has progressed on several of the tasks set forth in the project work plan. The City has begun coordination and development of program structure and details for both elements of the project, including finalizing the design and protocol for customer participation, establishing internal procedures, coordinating website design and development of materials, and training activities. The City has launched the residential rebate program website and produced outreach materials.



## Project Performance – Over-Irrigation Runoff/Bacteria Reduction Project

Sponsor: City of Encinitas

Program Area: Conservation

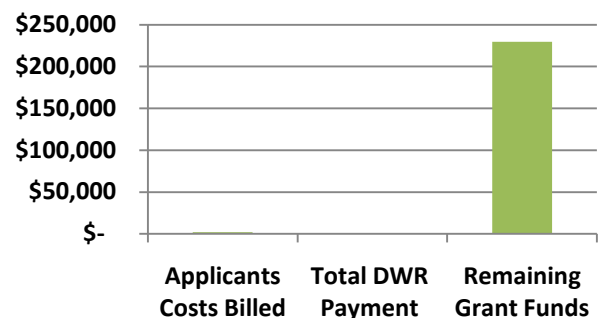
### Project Description

This project aims to protect and/or enhance water quality by reducing irrigation runoff through improved water use efficiency at eight pilot sites located within the Carlsbad Watershed in San Diego County. The objectives of the project are to provide measurable water conservation and water quality benefits and to demonstrate the link between over-irrigation reductions and reductions in pollutant loads. This will be accomplished through water use assessment, flow monitoring and water quality monitoring both on-site and at key locations in the storm drain system. This project will conserve an estimated 353 AFY of water.



### Project Status

To date, this project has progressed on several of the tasks set forth in the project work plan. Work to date have involved reviewing contracting documentation, processing and administering contract documentation, better defining project implementation tasks and associated roles and responsibilities, and initiating the process to complete the PAEP and QAPP. To date minimal project costs have been reported for this project.



## Project Performance – Sustainable Landscapes Program

Sponsor: San Diego County Water Authority

Program Area: Conservation

### Project Description

This project is designed to reduce water waste and pollutant infiltration into local waterways through the development and implementation of landscape standards and specifications generally consistent with the CA state Model Water Efficient Landscape Ordinance and the San Diego Regional Board MS4 Permit. This project is being developed in partnership with City of San Diego, County of San Diego, California American Water and non-profit partners such as California Center for Sustainable Energy, Surfrider Foundation, and Association of Compost Producers. The *Sustainable Landscapes Program* relies on the integration of landscape standards and specifications development, education and training, materials, incentives, outreach, and technical assistance to achieve project goals. The project is targeted towards the residential sector, but will also include commercial participants. Project benefits include: 1) water use reduction; 2) green waste reduction; 3) labor reductions associated with maintenance; 4) CO<sub>2</sub> emissions reduction; and 5) water quality improvements.



### Project Status

Landscape standards and specifications for this program are underway. Education and training curriculums have been developed by the Water Authority and will be geared towards the residential sector. Technical assistance has been initiated; the Water Authority is in the process of hiring a consultant on a limited basis to provide technical assistance to three pilot sites. No design work has been completed to date for this project.

## Project Performance – Padre Dam Water Reclamation Facility Expansion

Sponsor: Padre Dam Municipal Water District

Program Area: Water Recycling

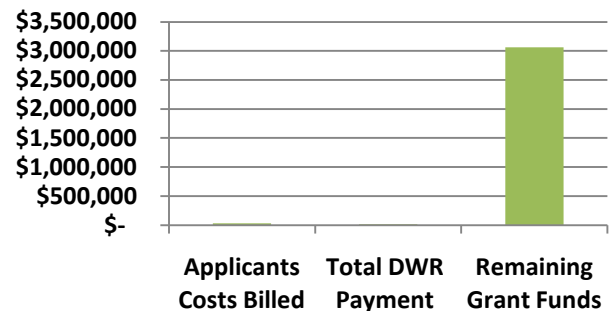
### Project Description

This project includes the design and construction of facilities necessary to expand the Title 22 treatment capacity of the Padre Dam Water Reclamation Facility (WRF) from 2 MGD to 4 MGD, with further expansion to 10 MGD and advanced treatment in a subsequent phase. This project is part of a coordinated effort to jointly implement two projects that will enhance local supplies through an expansion of recycled water production, coupled with increased groundwater recharge using recycled water. Based on a recent study, the WRF will utilize an existing treatment process, which involves tertiary microfiltration followed by reverse osmosis and advance oxidation.



### Project Status

To date, minimal funds have been billed for this project. Actions that have taken place with respect to this project involve implementing all major aspects of the project, including coordination with the consulting and project teams, and oversight of environmental, engineering, public involvement, legal and financial issues. Padre Dam MWD has procured a consultant to design the expansion, has begun environmental documentation, and has completed construction of the Cottonwood Diversion Structure.



## Project Performance – Recycled Water Retrofit Assistance Program

Sponsor: San Diego County Water Authority

Program Area: Water Recycling

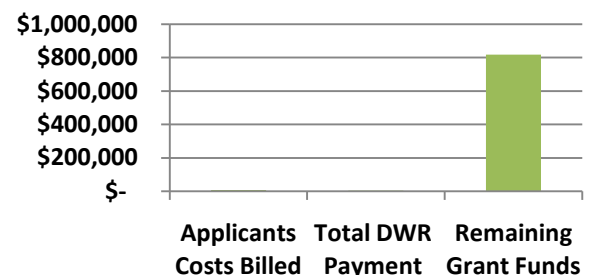
### Project Description

This project will provide direct financial assistance to various customer types to facilitate the conversion from potable to recycled water for landscape irrigation and other uses. The project will reimburse all, or a portion of the reasonable costs incurred by customers for retrofit work reviewed and approved by member agencies. The project will target approximately 20-40 sites throughout SDCWA's service area which will allow approximately 2,000 AFY of additional recycled water to be used. SDCWA's ultimate goal is to promote the development of recycled water supplying 5% of the Region's water demand by 2011.



### Project Status

The Water Authority has reviewed contracting documentation and drafted quarterly reports. The Water Authority has also met with agencies to identify potential public facility sites for future retrofitting, developed a program status spreadsheet that will serve to collect and track project site information, anticipated project costs, and project status. To date, this project has billed minimal grant funding, which have mostly been reimbursed by DWR.





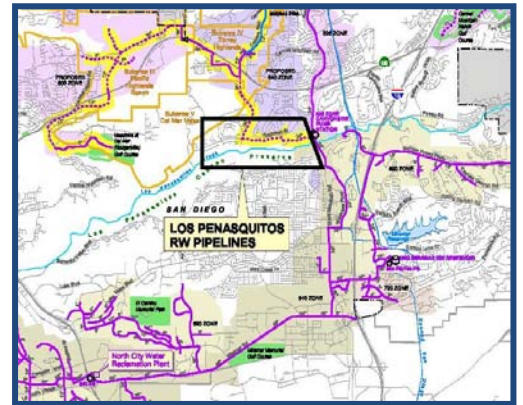
## Project Performance – Recycled Water Distribution System Expansion and Parklands Retrofit, and Indirect Potable Reuse/Reservoir Augmentation Demonstration Project

Sponsor: City of San Diego, Public Utilities Department

Program Area: Water Recycling

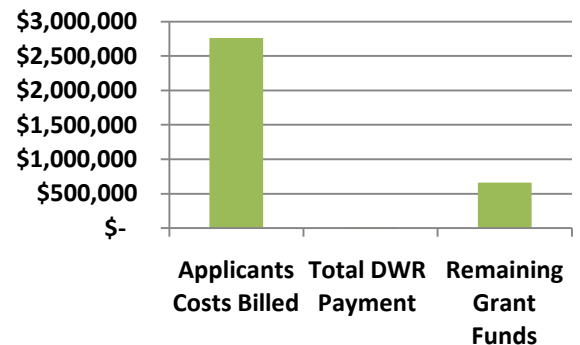
### Project Description

This project has three parts, which together assist the City of San Diego in achieving its target of beneficially reusing 50% of wastewater flows from its North City Water Reclamation Plant. This project includes a million gallon per day water purification demonstration project that will provide data for the community to decide whether or not to proceed with a full-scale potable reuse project in 2013. The project also includes construction of pipelines to expand the existing recycled water distribution area, and add recycled water connections to irrigate parks and public spaces. Using recycled water reduces imported water demand and increases local water supply, and results in less wastewater discharged into the ocean.



### Project Status

Many accomplishments and/or milestones have been achieved since this project was implemented. The City has completed many water distribution system expansions and parklands/open space recycled water retrofits. The City has successfully approved a rate increase to fund the Demonstration Project, which went into effect on January 1, 2009. In total, the City of San Diego has billed nearly \$2,800,000 towards implementation of this project, and has been reimbursed approximately \$30,000 by DWR.



## Project Performance – North San Diego County Regional Recycled Water Project

Sponsor: Olivenhain Municipal Water District

Program Area: Water Recycling

### Project Description

This project is a plan by North San Diego County water and wastewater agencies to regionalize recycled water systems by identifying new agency interconnections, seasonal storage opportunities and indirect potable water uses that will maximize supplies, reduce wastewater discharges to ocean, potentially reduce energy consumption due to diminished delivery of imported water, and allow recycled water to play an even more significant role in meeting future water needs.



### Project Status

The Recycled Water Facilities Plan for this project will be completed in March 2011. This plan analyzed existing and proposed recycled water facilities and evaluated each agency's ability to interconnect and maximize the use of recycled water within their combined service areas. The Engineering Study for Regional Seasonal Recycled Water Storage will be completed in June 2010 after the Grant Agreement is in place, in order to complete the project. No design work has been completed to date for this project.

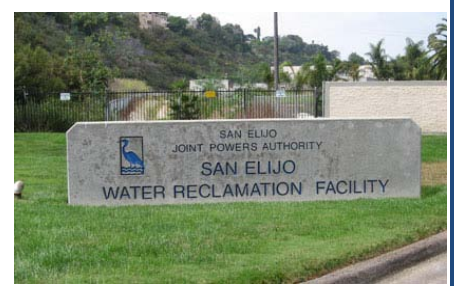
## Project Performance – North San Diego County Cooperative Demineralization Project

Sponsor: San Elijo Joint Powers Authority

Program Area: Water Recycling

### Project Description

In Southern California wastewater, brackish water, and urban runoff are high in total dissolved solids (TDS) and other impurities that require advanced treatment to allow beneficial reuse. The *North San Diego County Cooperative Demineralization Project* is focused on developing new local water supplies and managing water quality issues by constructing advanced water treatment facilities at the San Elijo Water Reclamation Facility (SEWRF) to mitigate high TDS sources and beneficial reuse and studying the feasibility of brackish to potable water desalination in North San Diego County.



### Project Status

The Recycled Water Facilities Plan for this project will be completed in March 2011. This plan analyzed existing and proposed recycled water facilities and evaluated each agency's ability to interconnect and maximize the use of recycled water within their combined service areas. The Engineering Study for Regional Seasonal Recycled Water Storage will be completed in June 2010 after the Grant Agreement is in place, in order to complete the project. No design work has been completed to date for this project.

## Project Performance – San Vicente Reservoir Source Water Protection through Watershed Property Acquisition and Restoration

Sponsor: City of San Diego Water Department

Program Area: Watersheds/Natural Resources

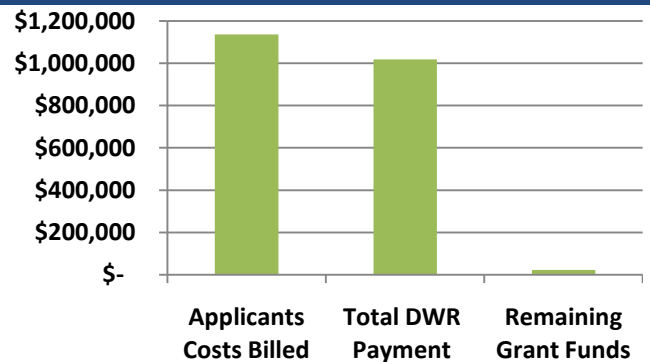
### Project Description

This project will acquire lands from willing sellers around San Vicente Reservoir for the purpose of creating an expanded drinking source water protection buffer, and will restore those lands following acquisition. The keystone in San Diego's reservoir system, San Vicente Reservoir ultimately supplies 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 as necessary.



### Project Status

This project has completed many of the tasks outlined within the project work plan. The City of San Diego has completed five property acquisitions for this project, for a total of over 118 acres of land. The City of San Diego is continuing to identify lands that are more distant from the San Vicente Reservoir, but still within the watershed, and will potentially acquire additional properties for the purpose of source water protection. In total, approximately \$1.14 million has been billed toward the project, and \$1.02 million has been reimbursed by DWR.



## Project Performance – El Capitan Reservoir Watershed Acquisition and Restoration Program

Sponsor: The San Diego River Park Foundation

Program Area: Watersheds/Natural Resources

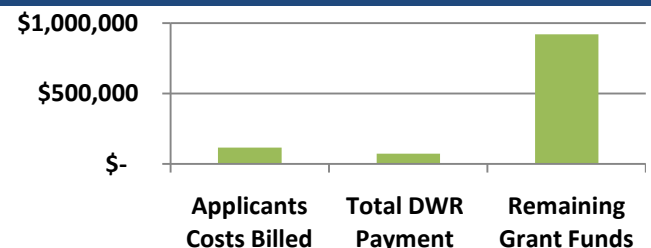
### Project Description

This project will acquire and restore two to three properties from sellers who have already indicated their willingness to sell approximately 120 acres of targeted vacant undeveloped lands upstream and in the immediate vicinity of the El Capitan Reservoir. The project will 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, planting 800 trees, maintaining a biologically significant wildlife corridor, and preserving habitat.



### Project Status

This project has completed many of the tasks outlined within the project work plan. Money spent for this project has gone to project administration, acquiring a 40 acre property, volunteer events, stakeholder outreach meetings, seeking permission to cross reservation lands, submitting letters of interest and purchase agreements, and reviewing additional properties for potential acquisition.



## Project Performance – Northern San Diego County Invasive Non-Native Species Control Program

Sponsor: Mission Resource Conservation District

Program Area: Watersheds/Natural Resources

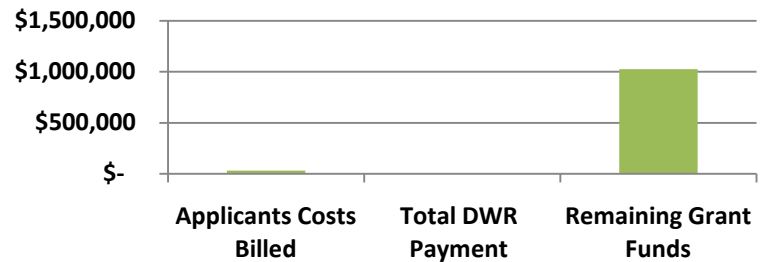
### Project Description

This project will aim to eradicate 373.5 acres of targeted invasive non-native plant species throughout Northern San Diego County. It would protect and enhance habitat in five hydrologic units; conserve water resources by increasing available groundwater; protect water delivery and storage systems by reducing flood risk and damage; improve water quality by reducing erosion through minimizing bank failures and normalizing sediment discharge processes; and reduce fire risk. Control of invasive species and native re-vegetation of riparian habitat would also benefit federally-listed endangered species in the area.



### Project Status

This project has not billed a substantial amount of money to date. Mission RCD has completed some work with respect to contract review, implementing a Labor Compliance Program, and environmental permitting. Mission RCD anticipates completing requisite contractual agreements and preparing for project implementation in the fall of 2011.



## Project Performance – Chollas Creek Integration Project

Sponsor: Jacobs Center for Neighborhood Innovation

Program Area: Watersheds/Natural Resources

### Project Description

The purpose of the *Chollas Creek Integration Project* is to gather and generate scientific data and stakeholder input to form an integrated planning process that will update the Chollas Creek Enhancement Program and establish implementation strategies. Further, this project will restore native habitat and reduce flooding hazards within Chollas Creek (Section 2A), which will provide baseline data for future water quality and habitat improvements. The project improves and maintains Chollas Creek as a natural urban drainage system that serves as a major conduit for stormwater runoff in the disadvantaged Encanto community.



### Project Status

This project will build from a 2002 Chollas Creek Enhancement Program developed by the City of San Diego. Biology and hydrology studies have been prepared for the Section 2A alignment. The creek restoration conceptual design has been initiated. 10% conceptual design has been completed to date.



## Project Performance – Santa Margarita Conjunctive Use Project

Sponsor: Fallbrook Public Utility District (PUD)

Program Area: Local Supply Development

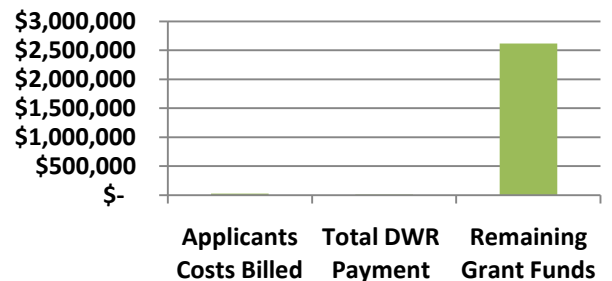
### Project Description

This project provides for enhanced recharge and recovery from the groundwater basin underlying Camp Pendleton, to provide a water supply for Camp Pendleton and Fallbrook as resolution of a long-standing water rights dispute. The project will provide approximately 6,000 AFY of new local supply by conjunctively managing the groundwater basins. Additionally, 1,380 acres of sensitive habitat will be preserved along the river. The project also includes a seawater intrusion barrier using recycled water and a distribution system able to deliver water both to Fallbrook PUD and Camp Pendleton from the SDCWA aqueduct system. The project consists of the facilities to be built on Camp Pendleton and the facilities to be built within the Fallbrook PUD's service area.



### Project Status

This project has reported minimal costs to date, but has completed project administration and the Engineering Feasibility Study. Fallbrook PUD oversaw preparation of environmental documentation (EIR/EIS) for the project and developed an Engineering Feasibility Study that is being reviewed by the US Bureau of Reclamation.



## Project Performance – Carlsbad Desalination Project Local Conveyance

Sponsor: Olivenhain Municipal Water District

Program Area: Local Supply Development

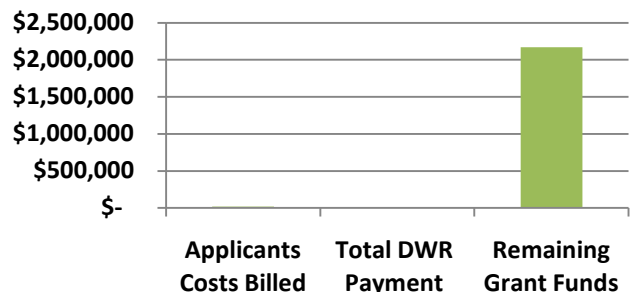
### Project Description

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 SDCWA member agencies. 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).



### Project Status

This project has reported minimal costs to date, but has completed actions related to design of the conveyance system and formalizing project-related agreements. Design is currently completed for the conveyance system, and OMWD anticipates finalizing selection of a contractor and beginning pipeline construction by the end of 2010 or early 2011.





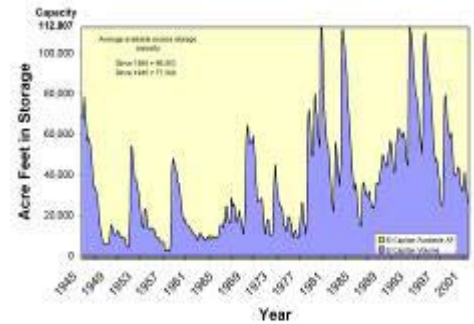
## Project Performance – San Diego Region Four Reservoir Intertie Project Feasibility Study

Sponsor: Sweetwater Authority

Program Area: Local Supply Development

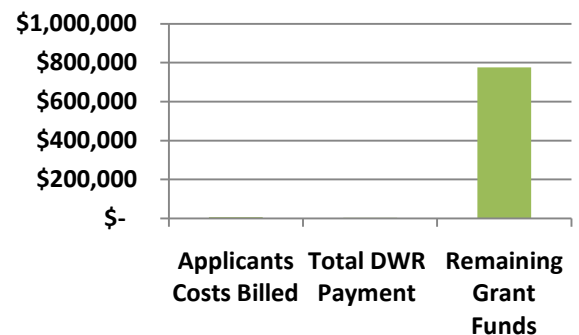
### Project Description

This project will provide an initial design and work plan for a conveyance system that will increase the capability to manage and store imported water in four existing reservoirs. Connecting the reservoirs would create an enhanced and integrated reservoir system to more efficiently use existing storage; increase water supply reliability; more efficiently supply water at the lowest possible cost; more effectively use imported water aqueducts; increase accessibility to ~100,000 AF of surface storage without creating new reservoirs or new storage capacity; and take advantage of potential energy management opportunities.



### Project Status

This project has reported minimal costs to date. None of the work plan tasks have been completed for this project.



## Project Performance – South San Diego County Water Supply Strategy

Sponsor: Sweetwater Authority

Program Area: Local Supply Development

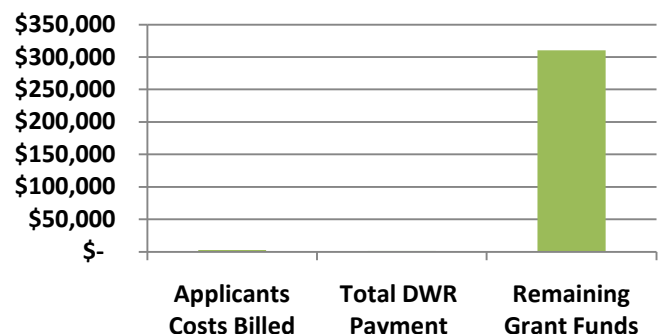
### Project Description

This project will investigate the sustainable use of the apparently vast groundwater resources of the San Diego Formation (SDF), a natural underground aquifer that underlies the central and south San Diego Bay. 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 will consist of an implementation study of the SDF to further understanding of sustainable water extraction and potential in-lieu conjunctive use and to guide the development of the Strategy.



### Project Status

Phase II of a United States Geological Survey (USGS) study is currently underway for the SDF. This project will support Phase III of the same study, which is anticipated to begin in January 2012. This project reported very minimal costs to date. This project has received a Congressional appropriation and SDCWA Local Investigations and Studies Assistance funds. Therefore, IRWM funding for this project will not be needed until January 2012.



## Project Performance – El Monte Valley Groundwater Recharge and River Restoration Project— Phases I and II

Sponsor: Helix Water District

Program Area: Local Supply Development

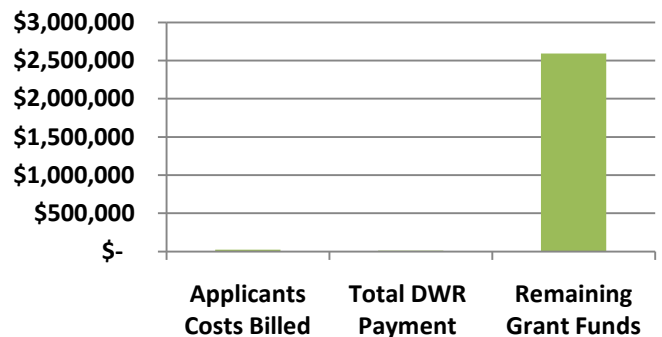
### Project Description

This project 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 2,240 AFY of groundwater to supply the R.M. Levy Water Treatment Plant. Phase I would develop the necessary Groundwater Management Plan and institutional support, and Phase II would include design and construction of spreading basins, conveyance pipelines and river restoration. This project will connect the distribution system to the Padre Dam Water District as well as the Lakeside Water District.



### Project Status

This project has made substantial progress towards finalizing many of its work plan tasks. The funds that have been spent to date have been allocated toward completing administrative tasks such as grant execution, developing consultant contracts, and holding meetings. In addition, Helix has completed multiple feasibility studies, investigations, testing, planning documents, environmental documents, and permitting documents. Some project activities have been delayed due to outstanding legal matters.



## Project Performance – Rural Disadvantaged Community (DAC) Partnership Project

Sponsor: Rural Community Assistance Corporation

Program Area: Local Supply Development

### Project Description

The *Rural DAC Partnership Project* will provide 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. The project will promote environmental justice in rural communities by providing outreach to rural DACs for available infrastructure projects, while promoting IRWMP goals. RCAC will manage the Prop 84 grant funds to address inadequate water supply and water quality in rural DACs, including tribal communities. RCAC will lead a representative group of stakeholders and agencies, including a representative of the San Diego IRWM Regional Advisory Committee (RAC), to solicit and select rural DACs for funding of critical infrastructure improvement projects.



### Project Status

Projects that will be completed as part of the *Rural DAC Partnership Project* have not yet been selected, and will be selected after the “Assessment and Evaluation” task has been complete. All reporting for this project will occur after initiation of the Implementation Grant Agreement. No design work has been completed to date for this project.

## Project Performance – San Diego Regional Pollution Prevention

Sponsor: San Diego Coastkeeper

Program Area: Education and Outreach

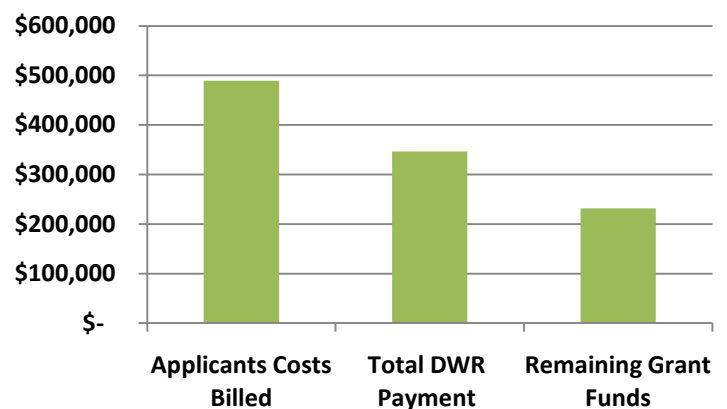
### Project Description

This project will remove trash and debris and assess the water quality within San Diego County through citizen monitoring. It seeks to establish a baseline of trash and water quality data that will be transferable to the local communities that live in the Region. 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.



### Project Status

To date, extensive work associated with establishing a regional water monitoring training and resource center, developing and implementing a public outreach and educational campaign, managing and analyzing data to develop the San Diego Regional Watersheds Report, have been accomplished. Details regarding these efforts can be found on the Coastkeeper's Watershed Monitoring webpage: <http://www.sdwatersheds.org/>



## Project Performance: San Diego Regional Water Quality Assessment and Outreach Project

Sponsor: San Diego Coastkeeper

Program Area: Education and Outreach

### Project Description

This project continues critical work conducted by San Diego Coastkeeper through 2011 as part of the Proposition 50 funding cycle. The project will engage community stakeholders to collect and analyze surface water samples in eight to nine watersheds throughout San Diego County and conduct trash removal in these areas. Samples will be analyzed for physical, chemical, bacterial, dissolved metals and nutrient constituents, as well as toxicity and bioassessment indicators. Resultant water quality data will be publically accessible to support public involvement in water resource conservation and stewardship of watershed function and health.



### Project Status

This project is a continuation of water quality assessment efforts began under a Proposition 50 grant. The work plan and budget are designed to continue the program for an additional 2 years (2012-2013) to provide expanded water quality data for watershed and regulatory programs throughout the County.



## Project Performance: Biofiltration Wetland Creation and Education Program

Sponsor: Zoological Society of San Diego

Program Area: Water Quality

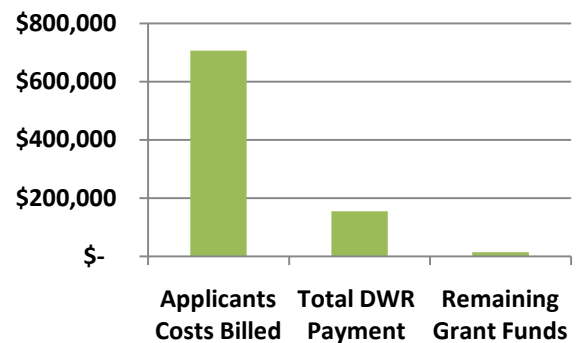
### Project Description

This project will develop a biofiltration wetland within the Safari Park, will be used to 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 another important aspect of this project. Finally, the wetlands will also be used to educate visitors about water conservation and the importance of conserving wetlands.



### Project Status

To date, extensive work regarding project administration, planning/design/engineering/environmental documentation, construction/ implementation, environmental compliance/mitigation/enhancement, and construction implementation has been completed. The most notable accomplishments have been development of a high-quality, comprehensive water education program by the Park's Education Department, and construction of wetlands/conveyance systems.



## Project Performance - San Dieguito Watershed Management Plan Implementation - Lake Hodges Natural Treatment System Conceptual Design

Sponsor: San Dieguito River Valley Conservancy

Program Area: Water Quality

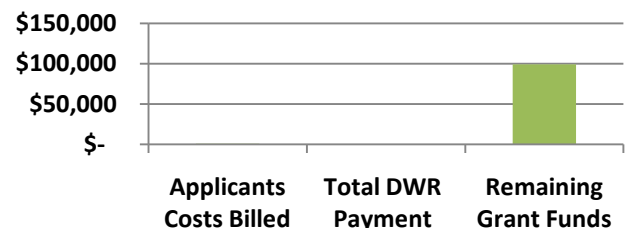
### Project Description

This project is being managed by the Natural Treatment Systems Working Group of the San Dieguito Watershed Council, with SDRVC. The project will provide initial design and a work plan for reduction of pollution loads to the City of San Diego's Lake Hodges Reservoir, which is a water supply source for north county communities and planned to be intertied to the regional water supply system. Natural treatment systems, such as restored and constructed wetlands are an established cost-effective and environmentally sound way to reduce pollutant loading.



### Project Status

To date, formal work on the project has not yet commenced. The potential has presented itself to expand the project, based entirely on local support, and to add a work element to prepare preliminary design engineering for a natural treatment facility for the Kit Carson Creek Sub-watershed. The project sponsor and project partners are working on revising the project.



## Project Performance –Green Mall Porous Paving and Infiltration, Phase 1

Sponsor: City of San Diego

Program Area: Water Quality

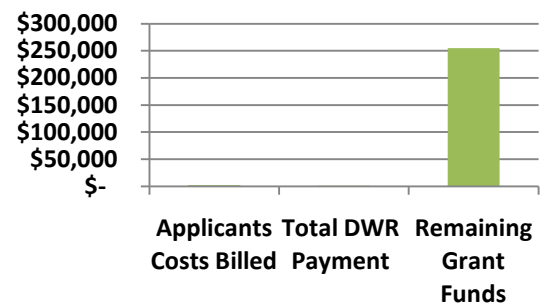
### Project Description

This project will retrofit storm water systems on two streets located within the tributary area of the Chollas Creek Watershed, allowing urban runoff and pollutants carried with storm water to infiltrate into the ground instead of discharging directly to the storm drain system and adjacent water bodies. 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.



### Project Status

In 2008 the City of San Diego hired a consultant to perform design services. 30% of the design and the geotechnical investigation were completed, and a majority of the 60% design was in progress and ready for submittal. In March 2009 contaminated soils were discovered, and it was determined that the project location was a cleanup site for underground diesel tanks and therefore infeasible. Currently, City staff is working with an as needed consultant to conduct design services for the new project site, and negotiations for this process are underway.



## Project Performance – County of San Diego Chollas Creek Runoff Reduction and Groundwater Recharge

Sponsor: Department of General Services, County of San Diego

Program Area: Water Quality

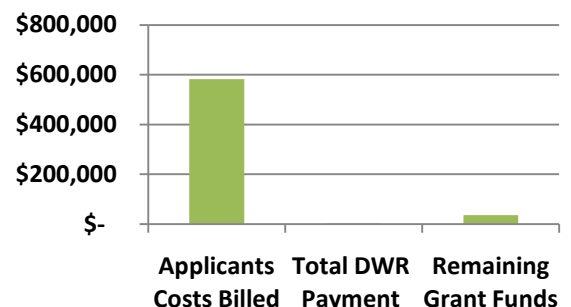
### Project Description

This project will demonstrate practical implementation of a range of low impact development (LID) practices to reduce runoff from three County of San Diego (County) facilities in the Chollas Creek sub-watershed. These facilities occupy sites that are highly impervious and could be retrofitted with LID components to promote infiltration and reduce runoff. Each site will demonstrate a different combination of technologies and techniques, allowing a comparison of the relative effectiveness of the methods. The project helps to reduce transport of pollutants to Chollas Creek, which is listed as impaired by copper, lead, and zinc.



### Project Status

To date, the City has awarded contracts to technical consultants, reviewed and commented on the Proposition 50 grant agreement, completed CEQA review and compliance, obtained final project compliance with CEQA review, completed of 75% of design and construction drawings, coordinated with the City of San Diego's Capital Improvement Program for sewer infrastructure improvements, and negotiated and obtained a signed contract with a State-Certified Labor Compliance consultant.



## Project Performance – Lake Hodges Water Quality and Quagga Mitigation Measures

Sponsor: San Diego County Water Authority

Program Area: Water Quality

### Project Description

The *Lake Hodges Water Quality and Quagga Mitigation Measures* project is intended to address two issues centered within the San Dieguito hydrologic unit. The first is how to improve low water quality within Lake Hodges. The second is how to mitigate against the potential long term effects of quagga mussels on Lake Hodges, San Dieguito Reservoir, Olivenhain Reservoir, and attached facilities.



### Project Status

The Santa Fe Irrigation District Water Quality Assessment was finalized in May 2011 addressing water quality data of Lake Hodges and A Vulnerability Assessment (to report on vulnerability to quagga mussel infestation) is underway. A Feasibility Study will be completed in February 2012. No design work has been completed to date for this project.

## Project Performance – Implementing Nutrient Management in the Santa Margarita River Watershed

Sponsor: County of San Diego

Program Area: Water Quality

### Project Description

The project aims to establish nutrient water quality objectives (WQOs) for the Santa Margarita estuary (Phase I) and ultimately the entire Santa Margarita Watershed (Phase II) that will lead to the implementation of nutrient reduction and water conservation practices in the watershed. The project consists of three major activities: Form and facilitate discussions among a Santa Margarita River watershed stakeholder group to guide project activities, conduct monitoring and special studies to address data gaps identified by stakeholders to achieve project objectives and develop nutrient WQOs for the Santa Margarita River estuary.



### Project Status

This project will build on existing efforts by reviewing, with stakeholders, the available data for selection of NNE target, and calibrating and validating the estuarine water quality model in order to estimate the “maximum sustainable load” of N and P. No tasks for the project have been completed to date, and completion of design is not relevant to this project.



## Project Performance – Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection

Sponsor: City of San Diego – Storm Water Department

Program Area: Water Quality

### Project Description

The goal of the *Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection* project is to reduce the pollutant load and volume of runoff entering the storm drain system in the Tecolote Creek Watershed. The load reduction goal will be achieved by diverting stormwater from the street to bioretention and treatment planters through curb cutouts. Enhanced streets will infiltrate storm flows through pervious pavement, which will reduce storm flows. These goals will also be achieved by diverting flows through a trash segregation unit and a series of AbTech (Bacterial Treatment System) units within the watershed.



### Project Status

Tier II and Tier III Storm Water Best Management Practices Conceptual Designs were prepared in July 2008. Currently, the project is at 10% design, and 30% design for the project is anticipated prior to the grant award date (by May 2011).

## Project Performance: Pilot Concrete Channel Infiltration Project

Sponsor: City of Santee

Program Area: Water Quality

### Project Description

The *Pilot Concrete Channel Infiltration Project* will convert a portion of the concrete channel in Woodglen Vista Creek (and other channels as budget/logistics permit) to a more porous base, facilitating infiltration of dry weather flows without compromising flood control capacity. This effort will assist in the attainment of bacteria TMDL waste loading allocations.



### Project Status

A Dry Weather Field Screening and Analytical Monitoring Program was developed by the City of Santee in 2009. This pilot project is currently at 5% design status.

## Project Performance – Regional Water Data Management Program

Sponsor: County of San Diego

Program Area: Data Management

### Project Description

The goal of the *Regional Water Data Management Program* is to provide a snapshot of current data management efforts and prioritize data needs and lay them out in a basic design parameters recommendations document for the future development of a regional, web-based system for sharing, disseminating and supporting the analysis of water management data and information.



### Project Status

No design work has been completed to date for this project.