

Proposition 50 Grant Program Completion Report

Presentation to Regional Advisory Committee
April 5, 2017



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Proposition 50 Bond


- Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002
- Bond Purpose: Authorized \$3.4B in general obligation bonds to fund a variety of water projects, including integrated regional water management
- First state funding to support IRWM planning
- Voter approved in November 2002



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Proposition 50 Grant Program


- Proposition 50 IRWM Funding: \$380,000,000
 - 2 Rounds of funding
- Grant Program Purpose: Assist in financing IRWM projects that provides:
 - multiple benefits
 - improved water supply reliability
 - long-term attainment and maintenance of water quality standards
 - reduced pollution
 - water quality improvements for DACs; and
 - groundwater projects in Southern California



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Proposition 50 IRWM SD Grant Program


- IRWM San Diego : Leverages local funds for the Region's priority projects to maximize consistency with the regional objectives and Proposition 50 IRWM Program Preferences
- Funding Award:
 - Grant Funding \$25,000,000
- Original Awarded Projects: 19
- Actual Completed Projects: 18
- Original Program Term: 5 years
- Actual Program term: 7 years
- Actual Project Sponsors: 12



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2007 SD IRWM Plan Objectives

- 11 Objectives
 - Encourage integrated solutions to water management
 - Maximize stakeholder/community involvement
 - Effectively obtain, manage and assess water data
 - Further scientific and technical foundation
 - Develop and maintain diverse mix of water resources
 - Construct reliable infrastructure
 - Enhance natural hydraulic process
 - Effectively reduce sources of pollutants
 - Protect, restore and maintain habitat and open space
 - Optimize water-based recreational opportunities
 - Effectively address climate change



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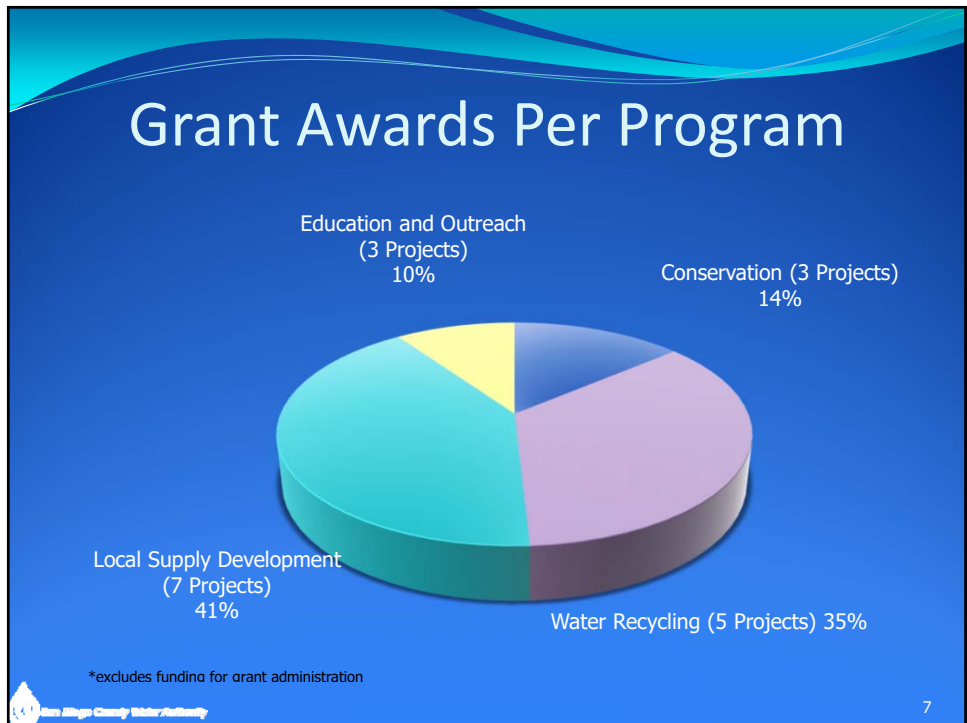
Grant Timeline

| | | | | |
|---|---|---|--|---|
|  |  |  |  |  |
| 2007 Application Development | 2008 Award | 2009 Agreement | 2009-2016 Implementation | 2016 Completion |

Proposition 50 IRWM Program Period



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Local Supply Development

Project 7
San Vicente Source Water Protection through Watershed Property Acquisition



- Purchased 424 acres of land for expanded source water protection buffer around the San Vicente Reservoir

San Diego County Water Authority

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Local Supply Development

Project 8
El Capitan Reservoir Watershed Acquisition & Restoration Program



- Purchased 343 acres of land and planted 1,600 trees to protect El Capitan's watershed

 San Diego County Water Authority 9

Local Supply Development

Project 9
Northern San Diego County Invasive Non-Native Species Control Program




- Eradicated 373 acres of targeted invasive non-native plant species and replanted native plants

 San Diego County Water Authority 10

Local Supply Development

Project 10
Santa Margarita Conjunctive Use Project, Phase 1



- Completed biological and environmental studies, permitting and design activities for a future water recharge project
- Transferred 1,380 acres of sensitive habitat

San Diego County Water Authority 11

Local Supply Development

Project 11
Carlsbad Desalination Local Conveyance Project



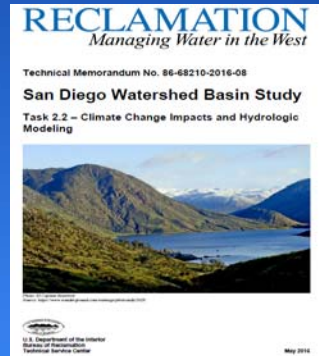
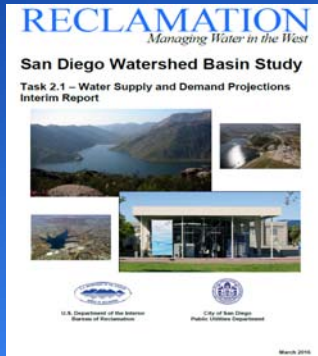
Designed, constructed and tested treated water flow control facilities and pipelines to convey 56,000 AFY of desalinated water to regional delivery system

San Diego County Water Authority 12

Local Supply Development

Project 12

San Diego Basin Water Supply Adaptation to Climate Change Project



- Developed water supply and demand projections
- Analyzed climate change impacts
- Conducted hydrologic studies

Local Supply Development

Project 13

South San Diego County Water Supply Strategy Project



- Collected groundwater quality samples, conducted aquifer tests, installed a monitoring well & developed a flow computer model

Water Recycling

Project 4
Ray Stoyer Water Recycling Facility Demonstration Plant for Advanced Water Treatment



Constructed .1 mgd demonstration facility for advanced water purification



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Water Recycling

Project 5
Recycled Water Retrofit Assistance Program



Provided financial assistance to retrofit 15 sites that converted from potable to recycled water



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Water Recycling

Project 6

Recycled Water Distribution System Expansion, Parklands Retrofit and Indirect Potable Reuse/Reservoir Augmentation and Extended Testing



- Installed 2,550 feet of recycled water pipeline that support delivery of 1,310 AFY recycled water
- Constructed, operated and tested a 1.0 MGD demonstration-scale advanced water treatment plant



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Conservation

Project 1

Implementation of Integrated Landscape & Agricultural Efficiency Programs



- Retrofitted 516 sites, performed hundreds of audits. 2,900 water budget measurements, developed a regional landscape model ordinance and branded “WaterSmart”



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Conservation

Project 2
Irrigation Hardware Giveaway and Cash for Plants Program



- Installed 606 controllers and achieved 117 AFY
50 sites that participated in the study group



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Conservation

Project 3
Civic Center Landscape Renovation, Conservation & Pollutant Load Reduction Project



- Removed turf and installed efficient landscape,
performed water quality and flow monitoring



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Education and Outreach

Project 15

San Diego Regional Pollution Prevention Project



- Collected 1,200 water quality samples, trained 700 volunteers, conducted seven trash assessments, and held 20 public outreach events

Education and Outreach

Project 16

San Diego Wild Animal Park Biofiltration Wetland Creation & Education Program



- Constructed wetlands to improve water quality
- Provided instruction to thousands of students, teachers, and park visitors

Education and Outreach

Project 17

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



- Developed an action plan focused on evaluating methods to reduce nutrient loading within the watershed draining into the Lake Hodges Reservoir

Education and Outreach

Project 18

Memorial Park Infiltration Project



- Installed infiltration devices to capture and treat urban runoff

Education and Outreach

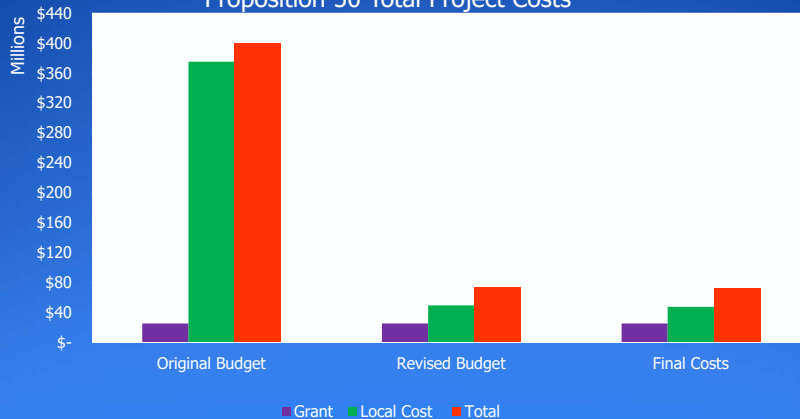
Project 19
Chollas Creek Runoff Reduction & Groundwater Recharge

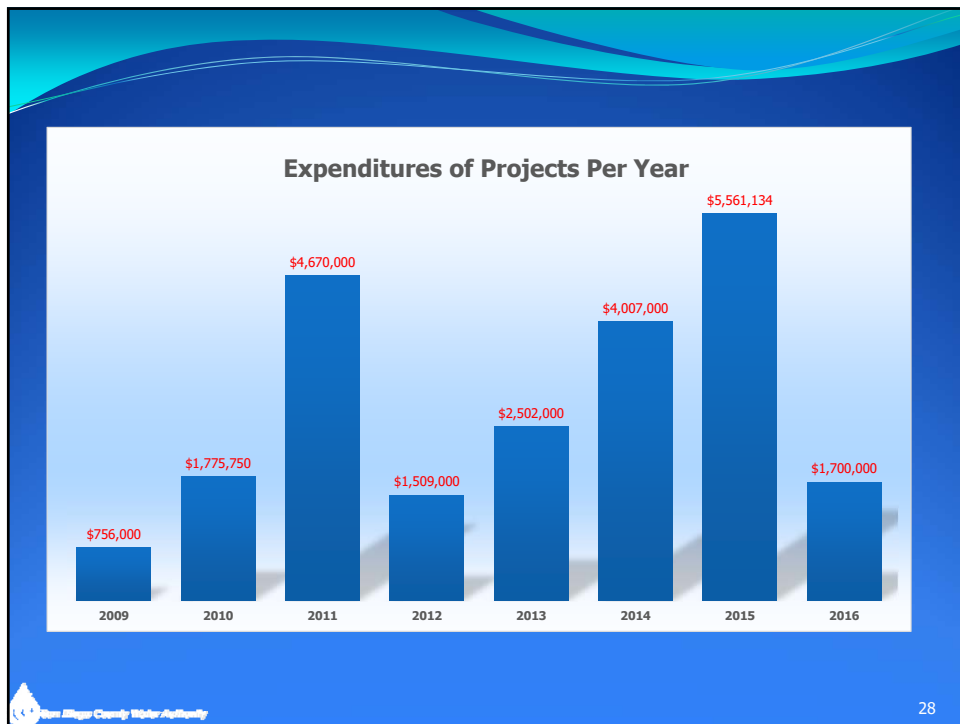
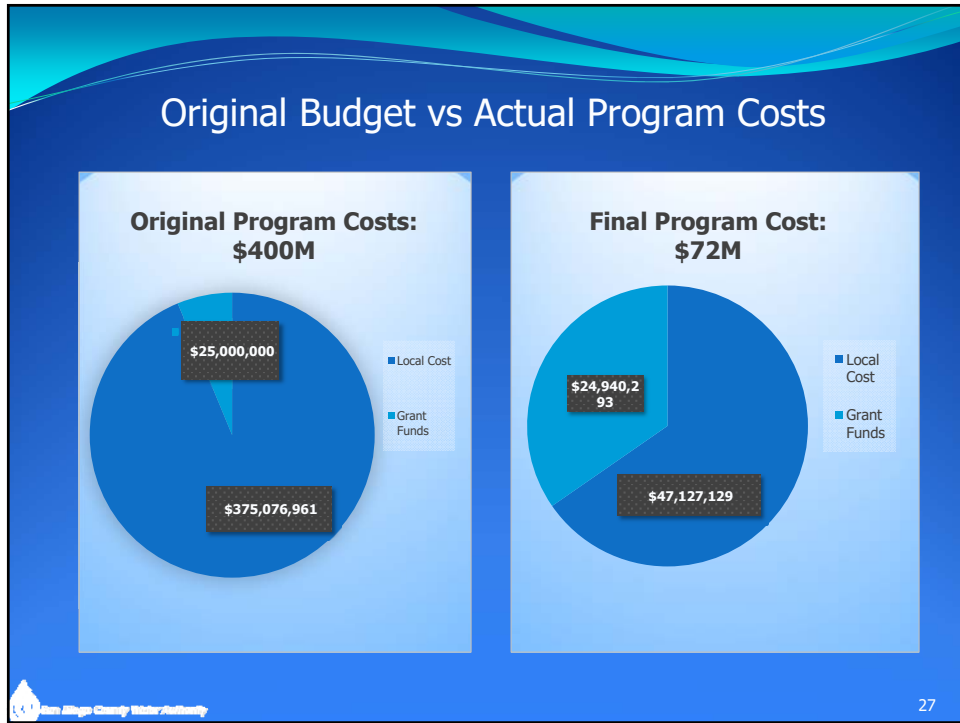


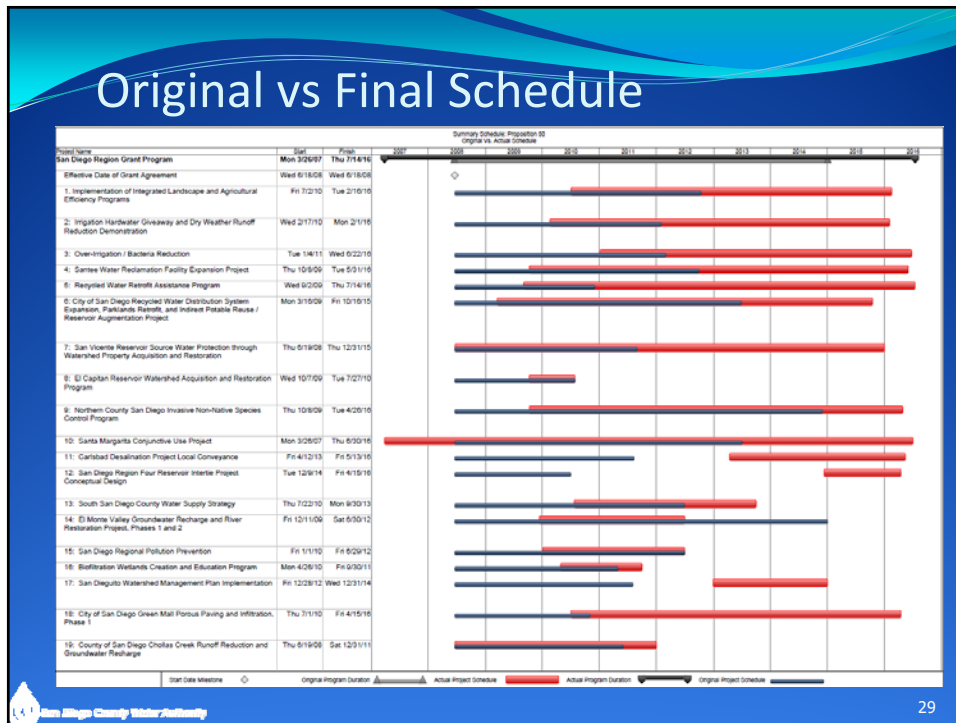
- Replaced 6,250 SF of impervious pavement with porous material, constructed biofiltration planters

Original vs Actual Program Costs

Proposition 50 Total Project Costs








Grant Administration

- Water Authority lead agency to administer grant funds
- Responsibilities include:
 - Grant Financial Management
 - Reporting and Deliverables Tracking
 - Grant and LPS Agreement Compliance Monitoring
 - Records Management (Webtool Development)
 - Program liaison between grantee and LPS
- Funding:
 - Awarded 3% = \$750K
 - Total costs spent \$750K

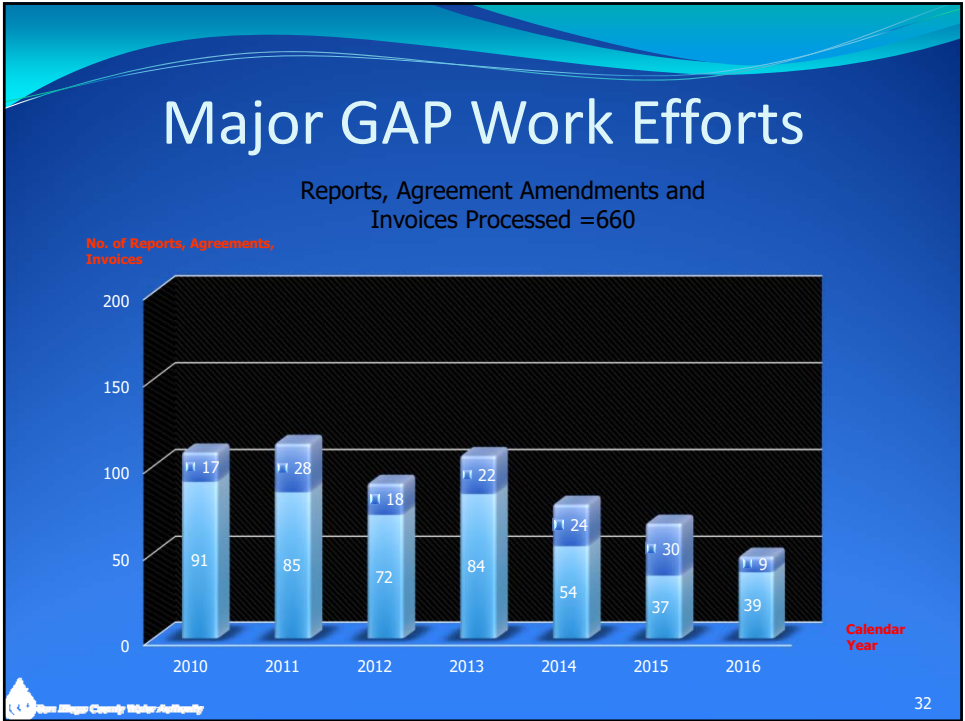
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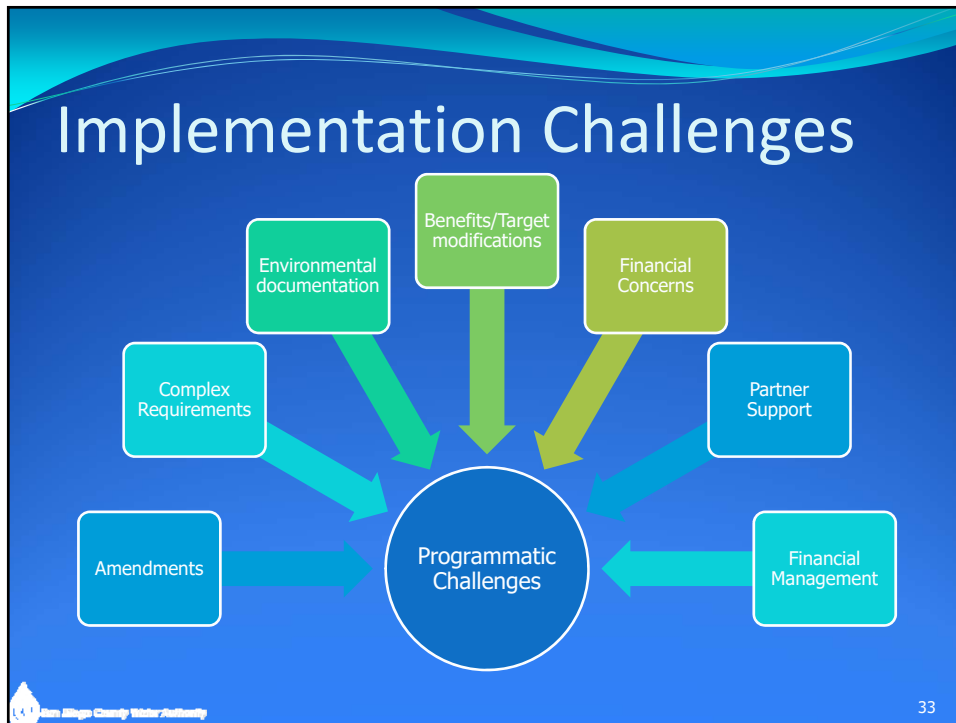
Grant Administration Program (GAP)

- Established in 2010
- A project under the Program
- Led by IRWM Program Manager and two full-time staff
- Accomplishments include:
 - Administered program to completion
 - Built a webtool
 - Effectively defended against audit findings
 - Submitted all required deliverables



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Implementation Challenges and Lessons Learned

Administration:

- Reimbursement delays- Advocated process changes
- Significant number of project amendments- close progress review and LPS contact
- Amendment processing delays- internal procedure improvement and efficiency
- Lost documents- multiple tracking
- Unaccounted/missing deliverables- tracking system
- Audit findings - stronger internal control and one-on-one LPS assistance/training
- DWR liaison changes - monthly coordination meetings and consistent communication
- Substantial project detail- Streamlined agreement information

Congratulations to LPS and THANK YOU!



-RWMG and IRWM GAP Team-

