Agenda

RAC Meeting #38
- Welcome & Introductions
- Grant Administration
- Prop 84-Round 2 Grant
- San Diego IRWM Plan Update
- City of San Diego Recycled Water Study
- Next Meeting – October 3, 2012
- Public Comments

Public Workshop
- Welcome
- IRWM Plan Overview
- Region Description Chapter
- Resource Management Strategies Chapter
- Next Meeting – October 3, 2012
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Introducing: Alexandra Brooke Hutsel
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Prop 50 Grant Administration

Contract Status:
• Contract amendment requests submitted to DWR
  ▪ Irrigation Hardware Giveaway, Cash for Plants (Project 2)
  ▪ Padre Dam Reclamation Facility Expansion Project (Project 4)
  ▪ South San Diego Water Supply Strategy (Project 13)
• Contract amendment requests in SDCWA processing
  ▪ Grant Funding Redistribution
    ▪ Recycled Water Distribution, Parklands Retrofit & indirect Potable Reuse (Project 6)
    ▪ El Capitan Reservoir Watershed Acquisition and Restoration Program (Project 8)
    ▪ Northern San Diego County Invasive Non-native Species Control (Project 9)
    ▪ Integrated Landscape & Agricultural Efficiency Program (Project 1)

Financials:
• $8.5M in costs submitted to DWR for reimbursement
• $7.4M paid by DWR; $101K in SDCWA processing for LPS disbursement
• Remaining Prop 50 grant budget is about $16.5M
Prop 84-Round 1 Grant Administration

Contract Status:
• DWR and SDCWA meeting held in July 2012 – to resolve outstanding financial and other contract issues
• Latest draft contract was sent to SDCWA on July 23rd with language changes
• Draft contract in SDCWA’s legal review

Next Steps:
• DWR to finalize contract for SDCWA signature
• SDCWA to provide draft LPS agreements to project partners
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## Prop 84-Round 2 Grant Opportunity

### Anticipated Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
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<tr>
<td>Call for Project Concepts (Aug 1 - Aug 24)</td>
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<tr>
<td>Priorities &amp; Metrics Workgroup Review of Project Concepts</td>
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<td>Strategic Integration Workshop (Sept 12)</td>
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<td>Call for New Projects-OPTI (Sept 1 - Oct 19)</td>
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<td>Extended Call to Finalize Project Information-OPTI (Oct 22-Nov 2)</td>
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<td>Targeted Outreach to Announce Round 2 - DAC, Tribal, Watersheds</td>
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<td>RWMG Drafts Straw Man Project Selection Process</td>
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<td>RAC Recommendation for Project Selection Process (Oct 3)</td>
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<td>RWMG Review and Analysis of Submitted Projects</td>
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<td>Project Selection Workgroup Convened to Recommend Project List</td>
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<td>RAC to Approve Recommended Project List (Dec 5)</td>
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<td>SDCWA Board Approval of Grant Application Submittal</td>
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<td>Consultant, LPSs, and RWMG Develop Grant Application</td>
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Prop 84-Round 2 Grant Opportunity

- **Call for Project Concepts: August 1 – August 24**
  - Invites local project sponsors to briefly describe their project concepts and identify potential integration opportunities
- **Strategic Integration Workshop: September 12**
  - Gathers local project sponsors to talk about their project concepts, network to enhance integration, and increase their competitiveness for Round 2 funding
- **Call for Projects: September 1 – October 18**
  - Solicits new projects for consideration of Round 2 funding
Prop 84-Round 2 Grant Opportunity

- Integration means actions affecting the management of water:
  - **Partnerships** – Establishing partnerships between different organizations can be cost effective by sharing data, resources, and infrastructure
  - **Resource Management** – Employing multiple water management strategies within a single project can effectively address a variety of issues
  - **Beneficial Uses** – Project solutions can be implemented to support several different beneficial uses
  - **Geography** – Implementing watershed- or regional-scale projects can benefit from economies of scale
  - **Hydrology** – Addressing multiple watershed functions within the hydrologic cycle can resolve conflicts between beneficial uses
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IRWM Plan Update Workgroups

- Collaboration with Regional Board Planning Study
- Land Use Planning Study
- Climate Change Planning Study
- Integrated Flood Planning Study
- Regulatory Workgroup
- Land Use Workgroup
- Climate Change Workgroup
- Integrated Flood Workgroup
- Governance & Financing Workgroup
- Priorities & Metrics Workgroup

2013 IRWM Plan Update
Governance & Financing Workgroup

- Workgroup tasked to develop a RAC Charter to:
  - Align more closely RAC composition and structure with expanding IRWM objectives and priorities
  - Formalize rules and guidelines for the RAC as an advisory body to the RWMG on key issues related to IRWM planning and funding applications
  - Facilitate broader stakeholder participation
- Robust discussion of financing options for the IRWM Program and projects
- Final workgroup meeting held on June 19
Governance & Financing Workgroup

Enhanced alignment of RAC composition and structure with IRWM program objectives and priorities

- Members representing a public agency, non-profit organizations, professional associations or academia
- Geographically diverse
- Representing multiple stakeholders
- Balance between public agencies and non-profits
<table>
<thead>
<tr>
<th>Regional Water Management Group (3)</th>
<th>Regional Water Management Group (3)</th>
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<tbody>
<tr>
<td>1. City of San Diego</td>
<td>1. City of San Diego</td>
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<td>2. County of San Diego</td>
<td>2. County of San Diego</td>
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<td>3. San Diego County Water Authority</td>
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<thead>
<tr>
<th>Water Supply (5)</th>
<th>Water Supply (5)</th>
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<tbody>
<tr>
<td>1. Retail</td>
<td>Retail (North County- Inland)</td>
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<tr>
<td>2. Retail</td>
<td>Retail (North County- Coastal)</td>
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<td>3. Retail</td>
<td>Retail (East County)</td>
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<td>4. Retail</td>
<td>Retail (South County)</td>
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<td>5. Retail</td>
<td>Retail (At Large)</td>
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<th>Water Quality (6)</th>
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<tr>
<td>1. Stormwater Management</td>
<td>Stormwater Management (North County)</td>
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<td>2. Stormwater Management</td>
<td>Stormwater Management (South/East County)</td>
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<tr>
<td>3. Wastewater/Recycled Water</td>
<td>Water Quality (NGO)</td>
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<td>4. Wastewater/Recycled Water</td>
<td>Water Quality (NGO)</td>
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<td>5. Retail</td>
<td>Wastewater/Recycled Water (Metro JPA)</td>
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<td>6. Retail</td>
<td>Wastewater/Recycled Water (Non-Metro JPA)</td>
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<tr>
<th>Natural Resources and Watersheds (6)</th>
<th>Natural Resources and Watersheds (5)</th>
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<td>1. Protection and Restoration (NGO)</td>
<td>Protection and Restoration (NGO)</td>
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<td>2. Protection and Restoration (NGO)</td>
<td>Water Conservation (NGO)</td>
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<td>3. Protection and Restoration (NGO)</td>
<td>Recreation</td>
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<td>4. Protection and Restoration (NGO)</td>
<td>Coastal Ecosystems (Bays, Estuaries, Lagoons)</td>
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<td>5. Protection and Restoration (NGO)</td>
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<td>6. State Coastal Conservancy</td>
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<tr>
<th>At Large (10)</th>
<th>Other Members (7)</th>
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<tr>
<td>Sustainability</td>
<td>Flood Management</td>
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<td>Urban DAC</td>
<td>Business Community</td>
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<td>Rural DAC</td>
<td>Agriculture</td>
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<tr>
<td>Flood Management</td>
<td>Tribal</td>
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<td>Military Community</td>
<td>At Large*</td>
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<tr>
<td>Agriculture</td>
<td>At Large*</td>
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<td>Chamber of Commerce</td>
<td>At Large*</td>
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<td>SANDAG</td>
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<td>Academia</td>
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<th>Total voting members: 28</th>
<th>Total voting members: 28</th>
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<tr>
<td>Non-Voting Members (4)</td>
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<tr>
<td>Regional Water Quality Control Board (staff)</td>
<td>Regional Water Quality Control Board (staff)</td>
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<td>U.S. Bureau of Reclamation</td>
<td>U.S. Bureau of Reclamation</td>
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<td>Tri-County FACC (Upper Santa Margarita)</td>
<td>Tri-County FACC (Upper Santa Margarita)</td>
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<td>Tri-County FACC (South Orange County)</td>
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<td>Military</td>
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<td>State Coastal Conservancy</td>
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Governance & Financing Workgroup

Proposed RAC Membership Categories

- **RWMG (3)**
  - City of San Diego
  - County of San Diego
  - San Diego County Water Authority

- **Water Supply (5)**
  - Retail (North County Inland)
  - Retail (North County Coastal)
  - Retail (East County)
  - Retail (South County)
  - Retail (At Large)

- **Water Quality (6)**
  - Stormwater Management (North)
  - Stormwater Management (South/East)
  - Water Quality (NGO)
  - Water Quality (NGO)
  - Wastewater/Recycled (Metro JPA)
  - Wastewater/Recycled (Non-Metro JPA)

- **DAC/ EJ (2)**
  - Urban DACs
  - Rural DACs

- **Natural Resources and Watersheds (5)**
  - Water Conservation (NGO)
  - Protection and Restoration (NGO)
  - Recreation
  - Coastal (Bays, Estuaries, Lagoons)

- **Other Members (7)**
  - Flood Management
  - Business Community
  - Agriculture
  - Tribal
  - Land Use Planning
  - At Large
  - At Large

- **Non-Voting**
  - Regional Water Quality Control Board
  - U.S. Bureau of Reclamation
  - Military Community
  - Tri-County FACC (Upper Santa Margarita)
  - Tri-County FACC (South Orange County)
  - State Coastal Conservancy
Governance & Financing Workgroup

Rules and Guidelines – RAC Charter topics:

• RAC role
• Meetings
• Member/alternate selection and replacement
• Member/alternate responsibilities
• Chair and Vice Chair roles
• Decision process – consensus-based, voting procedures
• Workgroups - broader membership, decision process
• Public comments
Governance & Financing Workgroup

Facilitate broader stakeholder participation:

- RAC was originally selected in 2006 by the RWMG; additional members have been added since then.
- RWMG has been contacted by other stakeholders inquiring how/when new RAC members are selected.
- Workgroup was tasked with establishing a process to allow new members to periodically join the RAC.
  - Goal is to ensure that all stakeholders have an equal opportunity to serve on the RAC, including stakeholders that have never served before.
- Proposal: 4-year terms.
Proposed Approach:

• Half of existing RAC members (except RWMG seats) would be selected to remain in place for the next two years (2013-2014). This process would occur at random.

• Remaining RAC seats would be opened to a formal application process whereby all interested parties are encouraged to apply for a four-year term.

• Selection would be made by a Workgroup comprised of 9 RAC members continuing with a 2-year term.
Governance & Financing Workgroup

Proposed Schedule for Re-Establishing the RAC

- **October 3, 2012 (RAC meeting):** Half of the existing RAC would be chosen at random to remain on the RAC through 2014.

- **November 1-December 4, 2012:** RWMG would solicit applications from all interested IRWM stakeholders, including those former RAC members not selected for a 2-year term. A RAC Membership Workgroup would be established at this time by those RAC members selected for 2-year terms.

- **December 5, 2012 (RAC meeting):** RAC would review proposed RAC Membership Workgroup, and forward recommendation to RWMG.

- **December 2012:** Workgroup would meet to review applications, and make recommendation to RWMG. RWMG would review recommendation and ensure it complies with the RAC Charter.

- **January 1, 2013:** New RAC membership would become effective. Newly appointed RAC members would serve a 4-year term.
Governance & Financing Workgroup

Next steps - Discussion
Priorities & Plan Metrics Workgroup

• 4th Workgroup meeting held on July 18th
• Focused on:
  ▪ Brainstorming integration strategies for Proposition 84 Implementation Grant funding – Rounds 2 and 3
  ▪ Reviewing draft targets, metrics, and data for achieving updated IRWM objectives
    • Next RAC/Workshop in October, we will review the Workgroup outcomes in more depth – today we are considering two new objectives:
      ▪ Integration
      ▪ Climate Change
Priorities & Plan Metrics Workgroup

- Outcomes of Workgroup Meeting #4:
  1. Approach for project integration:
     - “Call for Concepts”: August 1 – August 24
       - Interested parties to submit Project Concept Form or Project Partner Form
     - Hold additional Workgroup meeting to review the project concepts and discuss integration opportunities
     - Host a Strategic Integration Workshop: September 12
       - Focus will be discussing project concepts, integration opportunities, and services or abilities that groups may contribute to IRWM projects
     - “Call for Projects”: September 1 – October 18
Priorities & Plan Metrics Workgroup

• Outcomes of Workgroup Meeting #4:

2. Approach for Objectives, Metrics, Targets:
   • **Objectives**: specific, observable outcomes
   • **Targets**: measurable and tangible actions to achieve the objectives
   • **Metrics**: measurements that can be used to evaluate the action – may be quantitative or qualitative

**Example - Objective E**: Construct, operate, and maintain a reliable infrastructure system

- **Target 1 for Objective E**: Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries
- **Metrics for Target 1**:
  » AFY of emergency and carry-over supply
  » % of reservoir storage capacity used
  » increase in operational flexibility
Regulatory Workgroup

PURPOSE:

• To support the IRWM Plan Update by identifying collaboration opportunities between the San Diego IRWM program and the San Diego RWQCB toward achieving the mutual goal of protecting water quality in the Region

SCHEDULE:

• 4 meetings so far, 1 more planned in Aug/Sept
Regulatory Workgroup

KEY RECENT ACTIVITIES:

• Identified 28 potential issues of interest with three key outcomes:
  ▪ Support science-based Basin Plan water quality objectives
  ▪ Support science-based 303(d) listings
  ▪ Support restoration and mitigation
Regulatory Workgroup

PRIORITIES IN BASIN PLANNING – HIGHLIGHTS:
• Scientifically update relations between beneficial uses and water quality objectives
• Update water quality objectives to address seasonal or flow-based water quality protection needs
• Promote indirect potable reuse

EXAMPLE IMPLEMENTATION OPPORTUNITIES:
• Develop outcome-based objectives that scientifically relate water quality objectives to beneficial use protection needs
Regulatory Workgroup

PRIORITIES IN 303(D) TMDLs – HIGHLIGHTS:

• Ensure 303(d) listings are based on science and robust data
• Evaluate 303(d) listing of imported water reservoirs

EXAMPLE IMPLEMENTATION OPPORTUNITIES:

• Increase stakeholder participation in 303(d) and TMDL processes
• Improve data and analysis of typical flows and seasonal conditions prior to TMDL development
Regulatory Workgroup

PRIORITIES IN RESTORATION AND MITIGATION – HIGHLIGHTS:

• Improve efficiency in regulatory oversight for channel maintenance and restoration
• Prioritize regional restoration needs and opportunities

EXAMPLE IMPLEMENTATION OPPORTUNITIES:

• Establish regional coordination with multiple agencies to permit channel maintenance and restoration projects
• Develop jointly a prioritized list of restoration needs and opportunities
# Regulatory Workgroup

<table>
<thead>
<tr>
<th>What the IRWM Program Can Offer</th>
<th>Priority Issues of Interest to IRWM &amp; RWQCB</th>
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<tbody>
<tr>
<td>• Vision and Advocacy</td>
<td>• Support science-based Basin Plan water quality objectives</td>
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<tr>
<td>• Expertise</td>
<td>• Support science-based 303(d) listings</td>
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<td>• Project Funding</td>
<td>• Support restoration and mitigation</td>
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<td>• Stakeholder Coordination</td>
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# Regulatory Workgroup

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<tr>
<th>What the IRWM Program Offers</th>
<th>Support Science-Based Basin Plan Assessments</th>
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<tbody>
<tr>
<td><strong>Vision &amp; Advocacy</strong></td>
<td>• Identify priority needs to support IRWM and RWQCB goals</td>
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<tr>
<td><strong>Expertise</strong></td>
<td>• Organize information exchanges</td>
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<td>• Organize expert science panel or Work Group</td>
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<td><strong>Project Funding</strong></td>
<td>Implement IRWM policies that encourage funding of:</td>
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<td></td>
<td>• Thresholds impacts research</td>
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<td>• Data collection and assessment</td>
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<td>• Development of site-specific water quality objectives</td>
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<td>• Evaluation of Basin Plan implementation policies</td>
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<tr>
<td><strong>Stakeholder Coordination</strong></td>
<td>• Utilize existing IRWM structure for stakeholder input</td>
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<td>• Organize public workshops</td>
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</table>
Regulatory Workgroup

NEXT STEPS

• Complete list of implementation opportunities matching the IRWM assets to key outcomes of interest with IRWM goals & RWQCB priorities

• Discuss action plan

• Develop draft Workgroup Report
Land Use Planning Workgroup

- Final workshop will be held on August 21st
- Workshop Time and Location:
  SDG&E Energy Innovation Center
  4760 Clairemont Mesa Boulevard
  August 21, 2012 - 1:30-4:30 p.m.
- Purpose of workshop:
  - Present the review draft Planning Study and recommendations
  - Provide participants with the opportunity to provide additional input
Flood Management Workgroup

• 1st workshop held on June 26th
• Focused on:
  ▪ Characterizing common flood problems and sources
  ▪ Identifying key flood locations and issues
  ▪ Discussing existing flood control master plans
  ▪ Discussing existing needs, priorities, and constraints for implementing flood hazard mitigation
Climate Change Workgroup

- 1st Workgroup meeting held on June 28th
- Focused on:
  - Understanding IRWM climate change requirements
  - Providing input on climate change information pertinent to the San Diego IRWM Region
  - Identifying and prioritizing water-related vulnerabilities to climate change
Climate Change Workgroup

- 2nd Workgroup meeting held on July 26th
- Focused on:
  - Discussing results of the climate change vulnerability prioritization exercise from Workgroup Meeting #1
  - Finalizing regional climate change vulnerabilities
  - Discussing importance of time-frame
  - Identifying and beginning prioritization of management strategies
## Regional Climate Change Vulnerabilities

<table>
<thead>
<tr>
<th>Priority Level</th>
<th>Category and Vulnerability Issue</th>
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<tbody>
<tr>
<td><strong>Very High</strong></td>
<td>• Water Supply: Decrease in imported supply</td>
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<td>• Water Supply: Sensitivity due to higher drought potential</td>
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<td>• Water Quality: Increased constituent concentrations</td>
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<td>• Flooding: Increases in flash flooding and inundation (extreme weather)</td>
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<td>• Ecosystem/Habitat: Decrease in available necessary habitat</td>
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<td>• Sea Level Rise: Inundation of storm drains and sewer systems</td>
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<td>• Ecosystem/Habitat: Decrease in ecosystem services</td>
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<tr>
<td><strong>High</strong></td>
<td>• Water Demand: Crop demand would increase</td>
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<td></td>
<td>• Water Demand: Industrial demand would increase</td>
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<td></td>
<td>• Water Supply: Decrease in groundwater supply</td>
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<tr>
<td></td>
<td>• Water Quality: Increase in treatment cost</td>
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<td></td>
<td>• Sea Level Rise: Damage to coastal recreation / tourism due to inundation</td>
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<tr>
<td><strong>Medium</strong></td>
<td>• Water Supply: Lack of groundwater storage to buffer drought</td>
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<td></td>
<td>• Water Supply: Limited ability to conserve further</td>
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<td></td>
<td>• Water Quality: Increased eutrophication</td>
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<tr>
<td></td>
<td>• Flooding: Increases in inland flooding</td>
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<tr>
<td></td>
<td>• Ecosystem/Habitat: Increased impacts to coastal species</td>
</tr>
<tr>
<td><strong>Low</strong></td>
<td>• Water Supply: Limited ability to meet summer demand</td>
</tr>
<tr>
<td></td>
<td>• Water Supply: Invasive species can reduce supply available</td>
</tr>
<tr>
<td></td>
<td>• Water Quality: Decrease in recreational opportunity</td>
</tr>
<tr>
<td></td>
<td>• Sea Level Rise: Decrease in land</td>
</tr>
<tr>
<td></td>
<td>• Sea Level Rise: Damage to ecosystem/habitat</td>
</tr>
<tr>
<td></td>
<td>• Ecosystem/habitat: Decrease in environmental flows</td>
</tr>
<tr>
<td></td>
<td>• Hydropower: Decrease in hydropower potential</td>
</tr>
<tr>
<td><strong>Very Low</strong></td>
<td>• Water Supply: Decrease in imported supply</td>
</tr>
<tr>
<td></td>
<td>• Water Supply: Sensitivity due to higher drought potential</td>
</tr>
<tr>
<td></td>
<td>• Water Quality: Increased constituent concentrations</td>
</tr>
<tr>
<td></td>
<td>• Flooding: Increases in flash flooding and inundation (extreme weather)</td>
</tr>
<tr>
<td></td>
<td>• Ecosystem/Habitat: Decrease in available necessary habitat</td>
</tr>
<tr>
<td></td>
<td>• Sea Level Rise: Inundation of storm drains and sewer systems</td>
</tr>
<tr>
<td></td>
<td>• Ecosystem/Habitat: Decrease in ecosystem services</td>
</tr>
</tbody>
</table>
San Diego IRWM Region Watersheds

- San Juan
- Santa Margarita
- San Luis Rey
- San Dieguito
- San Diego River
- Sweetwater
- Pueblo
- Peñasquitos
- Carlsbad
- Otay
- Tijuana

Counties:
- Riverside County
- San Diego County
- Imperial County
Watershed Workshops

San Juan
Santa Margarita
San Luis Rey
Peñasquitos
San Diego River
Carlsbad
San Dieguito
Pueblo
Sweetwater
Otay
Tijuana
Watershed Workshops

• Purpose:
  - Hold public workshops at the watershed scale to identify water management issues

• Schedule and Locations:
  - **San Juan, Santa Margarita, San Luis Rey**: September 25th, City of Escondido, 10:00 – 11:30 a.m.
  - **Carlsbad, San Dieguito**: September 25th, City of Escondido, 1:00-2:30 p.m.
  - **San Diego River, Peñasquitos**: September 21st, Mission Valley Library, 3:00-4:30 p.m.
  - **Pueblo, Sweetwater, Otay, Tijuana**: September 27th, City of Chula Vista, 12:00-1:30 p.m.
Agenda

RAC Meeting #38
- Welcome & Introductions
- Grant Administration
- Prop 84-Round 2 Grant
- San Diego IRWM Plan Update
- City of San Diego Recycled Water Study
- Next Meeting – October 3, 2012
- Public Comments

Public Workshop
- Welcome
- IRWM Plan Overview
- Region Description Chapter
- Resource Management Strategies Chapter
- Next Meeting – October 3, 2012
Agenda

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• Next Meeting – October 3, 2012
Next RAC Meeting

- October 3, 2012 will be another joint public workshop and RAC meeting on the Plan Update
  - RAC Meeting #39: 9:00 – 10:20 a.m.
  - Public Workshop: 10:30 a.m. – 12:00 p.m.

2012 Meeting Schedule

- October 3, 2012
- December 5, 2012
**Agenda**

**RAC Meeting #38**
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**Public Workshop**
- Welcome
- IRWM Plan Overview
- Region Description Chapter
- Resource Management Strategies Chapter
- Next Meeting – October 3, 2012
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Public Workshop
- Welcome
- IRWM Plan Overview
- Region Description Chapter
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- Next Meeting – October 3, 2012
What is IRWM Planning?

• A regional approach for addressing water management issues
• A mechanism for stakeholders to work together to effectively implement water management projects
  - Regional Advisory Committee (32 entities)
  - Tri-County Funding Area Coordinating Committee (3 neighboring regions)
Original State Goals for IRWM

- Fosters Collaboration Between Agencies
- Supports Effective Water Management
- Enables Stakeholder Participation
- Positions Region for Funding
San Diego IRWM Region

San Juan
Santa Margarita
San Luis Rey
Carlsbad
San Dieguito
Peñasquitos
San Diego River
Pueblo
Sweetwater
Otay
Tijuana

Riverside County
San Diego County
Imperial County
Vision/Goals of 2007 IRWM Plan

- **Vision:**
  An integrated, balanced, and consensus-based approach to ensuring the long-term sustainability of San Diego’s water supply, water quality, and natural resources.

- **Goals:**
  1. Optimize water supply reliability
  2. Protect and enhance water quality
  3. Provide stewardship of natural resources
  4. Coordinate and integrate water resource management
IRWM Plan Update

• Update 2007 IRWM Plan with existing plans, planning studies, and stakeholder input
• Integrate program objectives established by the RWMG
• Meet 2010 and 2012 DWR IRWM Plan Requirements
Plan standards ensure IRWM Plans include specific content; region has flexibility in how issues are addressed
Anticipated Workshops for Plan Update

- Workshop 1: Region Description & RMS
- Workshop 2: Vision, Objectives, & Targets
- Workshop 3: Governance & Coordination
- Workshop 4: Data Management & Implementation
- Workshop 5: Draft IRWM Plan Update

Thank you for participating today!!
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Public Workshop
• Welcome
• IRWM Plan Overview
• Region Description Chapter
• Resource Management Strategies Chapter
• Next Meeting – October 3, 2012
Purpose of Workshop Discussion:
- Discuss proposed approach to Region Description chapter
  - Added, subtracted, revised sections
- Discuss sources for proposed information
- Confirm chapter outline is complete
Region Description Chapter

2007 IRWM Plan
• Defining Boundaries for the Region
  ▪ Appropriateness of the Region
  ▪ Future IRWM Plan Boundary Considerations

IRWM Plan Update
• Update with boundary justification from the 2009 RAP
• Include information on neighboring and/or overlapping IRWM efforts
  • Partnership with Tri-County FACC
Region Description Chapter

2007 IRWM Plan

- Regional Overview
  - Population
  - Social /Cultural Make-up
  - Disadvantaged Communities
  - Housing
  - Land Use
  - Regional Economy
  - Climate and Precipitation
  - Global Climate Change

IRWM Plan Update

- Same overall approach
- Update with 2010 UWMPs, SANDAG, County General Plan Update, 2010 Census data, etc
- Update climate change section based on outcomes from Climate Change Workgroup
Region Description Chapter

2007 IRWM Plan
- Watersheds
  - Size
  - Hydrology (general)
  - Issues (general)
  - Jurisdictions (general)

IRWM Plan Update
- Significantly expand watershed descriptions:
  - Hydrology
  - Water Systems
  - Internal Boundaries and Land Uses
  - Water Quality
  - Stormwater and Flood Management
  - Natural Resources
  - Climate Change Impacts
  - Management Issues / Conflicts
2007 IRWM Plan

- Surface Water Resources/Groundwater Resources:
  - Designated Beneficial Uses
  - Streamflow/Aquifer Capacity
  - Coastal Waters
  - Water Quality Standards
  - Section 303(d) Listed Waters (surface only)
  - Regional Constituents of Concern

IRWM Plan Update

- Split Water Systems and Water Quality into 2 sections
- Water Systems:
  - Water Supply:
    - Imported Water
    - Surface Water
    - Recycled Water – NEW
    - Groundwater
    - Desalinated Water – NEW
    - Conservation – NEW
  - Wastewater – NEW
  - Stormwater and Flood – NEW
**Region Description Chapter**

**2007 IRWM Plan**
- Surface Water and Groundwater Resources:
  - Designated Beneficial Uses
  - Streamflow/Aquifer Capacity
  - Coastal Waters
  - Water Quality Standards
  - Section 303(d) Listed Waters (surface only)
  - Regional Constituents of Concern

**IRWM Plan Update**
- Split Water Systems and Water Quality into 2 sections
- Water Quality:
  - Water Supply:
    - Imported Water
    - Surface Water
    - Recycled Water – NEW
    - Groundwater
    - Desalinated Water – NEW
    - Conservation – NEW
  - Wastewater – NEW
  - Stormwater and Flood – NEW
Region Description Chapter

2007 IRWM Plan

- Water Supply Infrastructure
  - Imported Water System
  - Water Supplies (source by agency)
  - Regional Water Supply Infrastructure
  - Emergency Storage Program
  - Wastewater/Recycled Water
  - Water Supply Outside of Water Authority Service Area

IRWM Plan Update

- Combine with Water Systems section
- Less emphasis on infrastructure, focus on water resources and supply
Region Description Chapter

2007 IRWM Plan
- Agencies and Jurisdictions
  - Land Use Jurisdictions
  - Water Supply Agencies
  - Wastewater Agencies
  - Stormwater Agencies
  - Flood Control Agencies
  - Environmental Management Organizations

IRWM Plan Update
- Same overall approach
- Clarify how jurisdictional boundaries overlap and jurisdictions collaborate within the region
Region Description Chapter

2007 IRWM Plan
• Water Demand and Supply Diversification
  ▪ Demand Forecasts
  ▪ Water Supply Diversification

IRWM Plan Update
• Water Supply and Demand
  ▪ 20-year planning horizon sourced from 2010 UWMPs
  ▪ New sections on environmental water needs and climate change
Region Description Chapter

2007 IRWM Plan
- Environmental Resources:
  - Habitat Resources
  - Vegetation Communities
  - Wildlife and Endangered Species
  - Aquatic, Estuarine, and Marine Habitats
  - Invasive Species

IRWM Plan Update
- Same overall approach
- Re-name to Natural Resources
Region Description Chapter

2007 IRWM Plan

- Recreational Resources:
  - Recreational beaches
  - Coastal preserves
  - Water-based recreational areas

IRWM Plan Update

- Include recreation under Land Use (Regional Overview section)
  - Describe as a distinct land use
- Connect to applicable beneficial uses described in Water Quality section
Region Description Chapter

2007 IRWM Plan
• Not applicable, new sections

IRWM Plan Update
• Major Water Related Issues and Conflicts
  ▪ Overview based on 2009 RAP, stakeholder meetings, and watershed-specific issues identified in Workshops
• Climate Change
  ▪ New standalone section describing Climate Change legislation and context
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**Public Workshop**
- Welcome
- IRWM Plan Overview
- Region Description Chapter
- Resource Management Strategies Chapter
- Next Meeting – October 3, 2012
Purpose of Workshop Discussion:

- Discuss proposed approach for Resource Management Strategies (RMS) chapter
- Confirm list of RMS used in San Diego region
- Brainstorm examples of RMS in use
- Confirm chapter outline is complete
Resource Management Strategies

• Resource Management Strategies (RMS) definition:
  ▪ A project, program, or policy that helps local agencies and governments manage their water, and related resources

• An IRWM Plan must consider each RMS listed in the 2009 California Water Plan
Resource Management Strategies

- **Reduce Water Demand**
  - Agricultural Water Use Efficiency
  - Urban Water Use Efficiency
  - *Crop Idling for Water Transfers*
  - Irrigated Land Retirement
  - Rainfed Agriculture

- **Improve Operational Efficiency and Transfers**
  - Conveyance – Delta
  - Conveyance – Regional/Local
  - System Reoperation
  - Water Transfers
  - *Waterbag Transport/Storage*

- **Improve Water Quality**
  - Drinking Water Treatment/Distribution
  - Groundwater/Aquifer Remediation
  - Matching Quality to Use
  - Pollution Prevention
  - *Salt and Salinity Management*
  - Urban Runoff Management

- **Increase Water Supply**
  - Conjunctive Management & Groundwater Storage
  - Desalination
  - Precipitation Enhancement*
  - Recycled Municipal Water
  - Surface Storage – CALFED*
  - Surface Storage – Regional/Local
  - *Atmospheric Pressure Desalination*
  - Fog Collection

- **Improve Flood Management**
  - Flood Risk Management

- **Practice Resources Stewardship**
  - Agricultural Lands Stewardship
  - Economic Incentives
  - Ecosystem Restoration
  - *Forest Management*
  - Land Use Planning and Management
  - Recharge Area Protection
  - Water-Dependent Recreation
  - Watershed Management
Resource Management Strategies

• RMS not considered in the 2007 IRWM Plan:
  - Precipitation Enhancement
  - CALFED Surface Storage

• RMS new in the 2009 CWP:
  - Crop Idling for Water Transfers
  - Irrigated Land Retirement
  - Rainfed Agriculture
  - Waterbag Transport/Storage Technology
  - Dewvaporation or Atmospheric Pressure Desalination
  - Fog Collection
  - Salt and Salinity Management
  - Forest Management
Resource Management Strategies

2007 IRWM Plan
• Based on the 2005 CWP
• Water Management Strategies
  ▪ Overview
  ▪ RMS Selected for Inclusion in IRWM Plan
  ▪ RMS in Water Management Projects
  ▪ Applicability to the Region’s Hydrologic Units

IRWM Plan Update
• Based on 2009 CWP
• Same overall approach
• Provide 1-2 case studies describing each RMS in use within the region
Resource Management Strategies

2007 IRWM Plan
• Describe each RMS with bulleted list of potential uses

IRWM Plan Update
• Describe each RMS with bulleted list of potential uses
• Provide 1-2 case studies describing the RMS in use within the region

Activity: Brainstorm RMS case studies for use in the IRWM Plan Update
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