

## 2007 San Diego IRWM Plan

**Table I-2: IRWM Plan Objectives, Measurable Targets, and Measurement Parameters**

IRWM Plan Objective	Designated Targets for Achieving IRWM Plan Objectives	Parameters for Measuring Success
A. Maximize stakeholder/community involvement and stewardship	<ul style="list-style-type: none"> <li>• Develop by 2009 a regional IRWM website to provide centralized public access to water management data and information.</li> <li>• Develop by 2008 and implement by 2010 regional approaches to water management education.</li> <li>• Conduct water management outreach and solicit input from 2% of Region’s population each year, including underserved and disadvantaged communities.</li> <li>• Provide "hands-on" stewardship opportunities in the Region's watersheds to 1% of Region’s population each year, including underserved and disadvantaged communities.</li> </ul>	<ul style="list-style-type: none"> <li>• Number of stakeholder meetings</li> <li>• Number of outreach efforts to disadvantaged communities</li> <li>• Number of stakeholders engaged in IRWM Plan development and implementation</li> <li>• Number of user hits on Project Clean Water website</li> </ul>
B. Effectively obtain, manage, and assess water resources data and information	<ul style="list-style-type: none"> <li>• Develop standards for the integration and assessment of water management data and information by 2010.</li> <li>• Provide centralized public access to key water management data sets by 2010.</li> </ul>	<ul style="list-style-type: none"> <li>• Development of web-based, GIS-compatible data management system</li> <li>• Development of data standards</li> <li>• Number of Newsletters distributed</li> </ul>
C. Further scientific and technical foundation of water quality management	<ul style="list-style-type: none"> <li>• By 2010, develop an agreed-upon system and metrics for tracking the progress of Basin plan validation efforts through coordination with Regional Board staff.</li> <li>• Conduct water quality assessment for beneficial use attainment within 75 percent of surface waters by 2015.</li> <li>• Assess and validate Basin Plan beneficial uses and water quality objectives for the Region’s watersheds by 2017.</li> <li>• By 2013, develop an agreed-upon system and metrics for tracking groundwater assessment information.</li> <li>• By 2015, develop an agreed-upon system and metrics for evaluating ocean water quality and marine habitat.</li> </ul>	<ul style="list-style-type: none"> <li>• Amount of surface water and groundwater assessed</li> <li>• Amount of basin plan beneficial uses assessed and validated</li> <li>• Progress towards developing a TDS management plan</li> </ul>

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D. Develop and maintain a diverse mix of water resources	<ul style="list-style-type: none"> <li>• Increase water conservation savings from about 51,090 AFY in 2006 to at least 79,960 AFY by 2010 and 108,400 AFY by 2030.</li> <li>• Increase seawater desalination capability within the region from zero AFY to 34,690 AFY by 2015</li> <li>• Increase recycled water use from about 14,830 AFY in 2006 to 33,670 AFY by 2010 and 47,580 AFY by 2030.</li> <li>• Increase groundwater supply within the Water Authority service area from about 14,960 AFY in 2006 to 28,580 AFY by 2010 and 31,180 AFY by 2030.</li> <li>• Implement Colorado River conservation and transfer programs, increasing deliveries from 35,000 AFY in 2006 to 277,700 AFY by 2030.</li> <li>• Include an analysis in the Water Authority 2010 Urban Water Management Plan that assesses the effect of climate change on future water supplies.</li> <li>• Develop and implement regional drinking water source protection guidelines for the Region by 2012.</li> <li>• Meet groundwater supply and water quality objectives identified in the County's General Plan 2020 for groundwater-dependent communities by 2012.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase in AFY of water conserved</li> <li>• Increase in AFY of groundwater supplies developed</li> <li>• Increase in AFY of seawater desalination implemented</li> <li>• Increase in AFY of recycled water used</li> <li>• Increase in AFY amount transferred from Colorado River</li> <li>• Implement an assessment of climate change on future water supplies</li> <li>• Number of low-flow plumbing fixtures/equipment installed</li> <li>• Number of acres of irrigation-efficient systems installed</li> <li>• Reduction in peak summer water demands</li> <li>• Increase in amount of regional water storage capacity</li> <li>• Increase in water treatment capacity</li> <li>• Reduction in imported water purchases</li> <li>• Increase in AFY of brackish groundwater reclaimed</li> </ul>
E. Construct and maintain a reliable water infrastructure system	<ul style="list-style-type: none"> <li>• Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries.</li> <li>• Increase local treatment of imported and local surface waters from 597 mgd to 860 mgd in 2010 and 920 mgd in 2030.</li> <li>• Develop the conveyance facilities necessary to deliver a reliable supply and assure adequate resources to maintain existing conveyance systems.</li> <li>• Develop the infrastructure needed to support the targets identified for developing recycled water, desalination, and groundwater supplies.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase in amount of regional water storage capacity</li> <li>• Increase in regional water treatment capacity</li> <li>• Increase capacities of conveyance facilities</li> </ul>
F. Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding.	<ul style="list-style-type: none"> <li>• Develop and implement regional standards for Low Impact Development (LID) practices by 2010.</li> <li>• Develop and implement regional approaches to hydromodification management by 2010.</li> <li>• By 2010, implement a system to track rates of change in area of impervious surfaces regionally.</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce volume runoff from land development</li> <li>• Reduce impacts to natural watershed hydrologic processes</li> <li>• Reduce peak flood flows</li> <li>• Reduce loss of life or flood-related property damage</li> </ul>

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<p>G. Effectively reduce sources of pollutants and environmental stressors.</p>	<ul style="list-style-type: none"> <li>• Implement Total Maximum Daily Loads (TMDLs) according to established schedules.</li> <li>• Reduce or avoid the need for TMDLs by monitoring and managing impacts to receiving waters, with an emphasis on 303(d)-listed water bodies and other Environmentally Sensitive Areas.</li> <li>• Develop by 2012 a regional management plan for Total Dissolved Solids (TDS).</li> <li>• Develop and implement comprehensive source management strategies to address regionally-significant constituents (e.g., pathogens, nutrients, sediments).</li> <li>• Reduce the frequency of sanitary sewer overflows in excess of 1,000 gallons from 180 overflows per year in 2005 to 120 overflows per year in 2012.</li> <li>• Reduce the volume of sanitary sewer overflows per mile of collection system.</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce number of 303(d) listings</li> <li>• Number of TMDLs supported (or completed)</li> <li>• Reduce number of beach/lagoon/stream closures</li> <li>• Reduce concentrations of pollutants in receiving waters</li> <li>• Reduce mass emissions of pollutants in receiving waters</li> <li>• Reduce number and volume of sewer spills</li> <li>• Number of stormwater treatment facilities installed</li> <li>• Reduce volume of trash/litter deposited</li> <li>• Number of stormwater diversions implemented</li> </ul>
<p>H. Protect, restore and maintain habitat and open space.</p>	<ul style="list-style-type: none"> <li>• Conserve by 2012 a minimum of 10,000 acres of habitat and open space, including functional riparian habitat and associated buffer habitat, and functional wetland habitat.</li> <li>• Restore by 2012 a minimum of 1,000 acres of habitat and open space, functional riparian habitat and associated buffer habitat, and functional wetland habitat.</li> <li>• Remove and control a minimum of 1,000 acres of non-native invasive plants by 2012.</li> <li>• Monitor, manage, control, and prevent establishment of nuisance aquatic species in the Region.</li> </ul>	<ul style="list-style-type: none"> <li>• Amount of acres of acquired or restored</li> <li>• Amount of acres of riparian habitat acquired or restored</li> <li>• Amount of acres of invasive species removed</li> <li>• Number of wildlife corridor linkages implemented</li> </ul>
<p>I. Optimize water-based recreational opportunities</p>	<ul style="list-style-type: none"> <li>• Develop 200 acres of water-based recreational open space that focuses on underserved areas and ensures equal access for disadvantaged communities.</li> <li>• By 2015 provide 20 new public access points (boat launch facilities, fishing floats or piers, swim beaches, trails, stairs, parking areas, or similar) to recreational surface waters.</li> </ul>	<ul style="list-style-type: none"> <li>• Number of acres of water-based recreational open space created</li> <li>• Number of recreational site access improvements implemented</li> <li>• Reduction in number of beach/lagoon/stream closures</li> <li>• Number of new recreational sites improved or implemented</li> </ul>