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	 Develop by 2009 a regional IRWM website to provide centralized public access to water management data and information. Develop by 2008 and implement by 2010 regional approaches to water management education. Conduct water management outreach and solicit input from 2% of Region's population each year, including underserved and disadvantaged communities. Provide "hands-on" stewardship opportunities in the Region's watersheds to 1% of Region's population each year, including underserved and disadvantaged communities. 	 Number of stakeholder meetings Number of outreach efforts to disadvantaged communities Number of stakeholders engaged in IRWM Plan development and implementation Number of user hits on Project Clean Water website
B. Effectively obtain, manage, and assess water resources data and information	 Develop standards for the integration and assessment of water management data and information by 2010. Provide centralized public access to key water management data sets by 2010. 	 Development of web-based, GIS-compatible data management system Development of data standards Number of Newsletters distributed
C. Further scientific and technical foundation of water quality management	 By 2010, develop an agreed-upon system and metrics for tracking the progress of Basin plan validation efforts through coordination with Regional Board staff. Conduct water quality assessment for beneficial use attainment within 75 percent of surface waters by 2015. Assess and validate Basin Plan beneficial uses and water quality objectives for the Region's watersheds by 2017. By 2013, develop an agreed-upon system and metrics for tracking groundwater assessment information. By 2015, develop an agreed-upon system and metrics for evaluating ocean water quality and marine habitat. 	 Amount of surface water and groundwater assessed Amount of basin plan beneficial uses assessed and validated Progress towards developing a TDS management plan

IRWM Plan Objective	Designated Targets for Achieving IRWM Plan Objectives	Parameters for Measuring Success
D. Develop and maintain a diverse mix of water resources	 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. Increase seawater desalination capability within the region from zero AFY to 34,690 AFY by 2015 Increase recycled water use from about 14,830 AFY in 2006 to 33,670 AFY by 2010 and 47,580 AFY by 2030. 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. Implement Colorado River conservation and transfer programs, increasing deliveries from 35,000 AFY in 2006 to 277,700 AFY by 2030. Include an analysis in the Water Authority 2010 Urban Water Management Plan that assesses the effect of climate change on future water supplies. Develop and implement regional drinking water source protection guidelines for the Region by 2012. Meet groundwater supply and water quality objectives identified in the County's General Plan 2020 for groundwater-dependent communities by 2012 	 Increase in AFY of water conserved Increase in AFY of groundwater supplies developed Increase in AFY of seawater desalination implemented Increase in AFY of recycled water used Increase in AFY amount transferred from Colorado River Implement an assessment of climate change on future water supplies Number of low-flow plumbing fixtures/equipment installed Number of acres of irrigation-efficient systems installed Reduction in peak summer water demands Increase in amount of regional water storage capacity Increase in water treatment capacity Reduction in imported water purchases Increase in AFY of brackish groundwater reclaimed
 E. Construct and maintain a reliable water infrastructure system F. Reduce the negative 	 Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries. Increase local treatment of imported and local surface waters from 597 mgd to 860 mgd in 2010 and 920 mgd in 2030. Develop the conveyance facilities necessary to deliver a reliable supply and assure adequate resources to maintain existing conveyance systems. Develop the infrastructure needed to support the targets identified for developing recycled water, desalination, and groundwater supplies. Develop and implement regional standards for Low Impact 	 Increase in amount of regional water storage capacity Increase in regional water treatment capacity Increase capacities of conveyance facilities Reduce volume runoff from land development
effects on waterways and watershed health caused by hydromodification and flooding.	 Development (LID) practices by 2010. Develop and implement regional approaches to hydromodification management by 2010. By 2010, implement a system to track rates of change in area of impervious surfaces regionally. 	 Reduce impacts to natural watershed hydrologic processes Reduce peak flood flows Reduce loss of life or flood-related property damage

IRWM Plan Objective	Designated Targets for Achieving IRWM Plan Objectives	Parameters for Measuring Success
G. Effectively reduce	• Implement Total Maximum Daily Loads (TMDLs) according to	• Reduce number of 303(d) listings
sources of pollutants and	established schedules.	• Number of TMDLs supported (or completed)
environmental stressors.	• Reduce or avoid the need for TMDLs by monitoring and managing	• Reduce number of beach/lagoon/stream closures
	impacts to receiving waters, with an emphasis on 303(d)-listed water bodies and other Environmentally Sensitive Areas.	• Reduce concentrations of pollutants in receiving waters
	• Develop by 2012 a regional management plan for Total Dissolved Solids (TDS).	Reduce mass emissions of pollutants in receiving waters
	• Develop and implement comprehensive source management	Reduce number and volume of sewer spills
	strategies to address regionally-significant constituents (e.g.,	 Number of stormwater treatment facilities installed
	pathogens, nutrients, sediments).	• Reduce volume of trash/litter deposited
	• Reduce the frequency of sanitary sewer overflows in excess of 1,000 gallons from 180 overflows per year in 2005 to 120	• Number of stormwater diversions implemented
	overflows per year in 2012.	
	• Reduce the volume of sanitary sewer overflows per mile of collection system	
U Protect restore and	Concerno by 2012 a minimum of 10 000 some of hebitet and onen	• Amount of comes of convinced on nectored
maintain habitat and open	• Conserve by 2012 a minimum of 10,000 acres of naonat and open space, including functional riparian habitat and associated buffer habitat, and functional wetland habitat.	 Amount of acres of acquired of restored Amount of acres of riparian habitat acquired or restored
1	• Restore by 2012 a minimum of 1.000 acres of habitat and open	 Amount of acres of invasive species removed
	space, functional riparian habitat and associated buffer habitat, and functional wetland habitat.	 Number of wildlife corridor linkages implemented
	• Remove and control a minimum of 1,000 acres of non-native invasive plants by 2012.	
	• Monitor, manage, control, and prevent establishment of nuisance aquatic species in the Region.	
I. Optimize water-based	Develop 200 acres of water-based recreational open space that	• Number of acres of water-based recreational open
recreational opportunities	focuses on underserved areas and ensures equal access for	space created
	disadvantaged communities.	• Number of recreational site access improvements
	• By 2015 provide 20 new public access points (boat launch	implemented
	facilities, fishing floats or piers, swim beaches, trails, stairs, parking areas, or similar) to recreational surface waters.	 Reduction in number of beach/lagoon/stream closures
		 Number of new recreational sites improved or implemented