



Priorities & Metrics Workgroup Proposed Vision, Mission, Goals, Objectives, and Targets

November 28, 2012

Vision:

An integrated, balanced, and consensus-based approach to ensuring the long-term sustainability of the Region's water supply, water quality, and natural resources.

Mission:

To develop and implement an integrated strategy to guide the Region toward protecting, managing, and developing reliable and sustainable water resources. Through a stakeholder-driven and adaptive process, the Region can develop solutions to water-related issues and conflicts that are economically and environmentally preferable, and that provide equitable resource protection for the entire Region.

Goals:

1. Improve the reliability and sustainability of regional water supplies.
2. Protect and enhance water quality.
3. Protect and enhance our watersheds and natural resources.
4. Promote and support integrated water resource management.

Objectives, Targets, and Metrics:

To be included in the San Diego IRWM Plan, all implementation projects must contribute to the attainment of Objective A, Objective B, and at least one other objective.

Objective A: Encourage the development of integrated solutions to address water management issues and conflicts.

Objective B: Maximize stakeholder/community involvement and stewardship of water resources, emphasizing education and outreach.

Objective C: Effectively obtain, manage, and assess water resource data and information.

Objective D: Further scientific and technical foundation of water management.

Objective E: Develop and maintain a diverse mix of water resources, encouraging their efficient use and development of local water supplies.

Objective F: Construct, operate, and maintain a reliable infrastructure system.

Objective G: Enhance natural hydrologic processes to reduce the effects of hydromodification and encourage integrated flood management.

Objective H: Effectively reduce sources of pollutants and environmental stressors to protect and enhance human health and safety and the environment.

Objective I: Protect, restore, and maintain habitat and open space.

Objective J: Optimize water-based recreational opportunities.

Objective K: Effectively address climate change through adaptation or mitigation in water resource management.

Objectives <i>Specific observable outcomes.</i>	Targets <i>Measurable and tangible actions to achieve the objectives.</i>	Metrics <i>Measurements that can be used to evaluate the actions – may be quantitative or qualitative.</i>	Source(s) for Metric Data	IRWM Program	Project Type						
					Water Supply	Wastewater	Recycled Water	Groundwater	Stormwater	Flood Control	Habitat / Open Space
Objective A: Encourage the development of integrated solutions to address water management issues and conflicts.	1. Encourage the development of partnerships to implement water management projects.	Number of IRWM-funded projects that have multiple partners	IRWM Program LPS	x	x	x	x	x	x	x	x
	2. Encourage the development of projects that achieve multiple IRWM Plan objectives.	Number of IRWM-funded projects that contribute to attainment of multiple IRWM Plan objectives	IRWM Program LPS	x	x	x	x	x	x	x	x
	3. Encourage the development of projects that integrate multiple Resource Management Strategies.	Number of IRWM-funded projects with multiple Resource Management Strategies	IRWM Program LPS	x	x	x	x	x	x	x	x
	4. Encourage the development of projects that provide regional or multi-watershed benefits.	Number of IRWM-funded projects that provide multi-watershed or regional benefits	IRWM Program LPS	x	x	x	x	x	x	x	x
	5. Encourage the development of projects that consider multiple hydrologic functions.	Number of IRWM-funded projects addressing multiple watershed functions considering the hydrology of the system (upstream/downstream, surface/groundwater)	IRWM Program LPS	x	x	x	x	x	x	x	x
Objective B: Maximize stakeholder/community involvement and stewardship of water resources, emphasizing education and outreach.	1. Maintain the regional IRWM website to provide centralized public access to IRWM program data and information.	Regular updates to the website Access provided Number of website visits	IRWM Program	x							

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	2. Provide access (via active link) to the regional IRWM website to help inform the Region's population about the IRWM program.	Access provided	LPS		x	x	x	x	x	x	x
	3. Conduct education and outreach activities to obtain a measureable increase in the regional population's knowledge of sustainable water resources management, including the nexus between water and energy.	Public workshops, meetings and presentations held Outreach activities (brochures, fair booths, landscape contests); Survey results	IRWM Program CWA and County Public Opinion Surveys LPS	x	x	x	x	x	x	x	x
	4. Provide "hands-on" stewardship opportunities in the Region's watersheds, including underserved and disadvantaged communities.	Stewardship activities held Number of participants (new vs. returning)	LPS		x	x	x	x	x	x	x
	5. Encourage the use of partnerships and community contacts to collect and disseminate information on water management.	Partners utilized to collect and disseminate information	IRWM Program LPS	x	x	x	x	x	x	x	x
Objective C: Effectively obtain, manage, and assess water resource data and information.	1. Provide centralized public access to key water management data sets and contribute water resources data consistent with established standards to regional data management system (DMS)	Regional DMS developed and populated Data sets that meet quality standards contributed Access to regional water quality sampling and reporting data for public health purposes	SDIRWM Data Management Program LPS	x	x	x	x	x	x	x	x
	2. Collect and evaluate water resources data in order to assess and document regional conditions, issues, and potential solutions.	Collected data informs and supports decision-making	IRWM Program LPS	x	x	x	x	x	x	x	x

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Objective D: Further scientific and technical foundation of water management.	1. Work with the Regional Board to implement collaborative activities to update, improve, and validate the Basin Plan.	Collaborative activities with Regional Board Development of alternative strategies (such as implementation plans) to maintain compliance with Basin Plan water quality objectives Implementation of Regulatory Workgroup Strategies Number of scientifically-based site-specific objectives developed	IRWM Program MS4 Implementation Plans	x	x	x	x	x	x	x	x
	2. Work with regional flood managers to understand and encourage application of integrated flood management techniques.	Studies/projects implemented	IRWM Program LPS	x	x	x	x	x	x	x	x
	3. Promote the inclusion of sustainable water resource management policies in land use plans.	Number and diversity of water resource management policies included in land use plans	City and County General Plans	x							
	4. Expand the technical foundation of reusing local supplies (i.e. potable reuse, stormwater capture, greywater).	Study outcomes Guidelines or specifications developed Research and development, pilot testing, or conceptual design projects implemented New technologies used	LPS		x	x	x	x	x	x	x
	5. Apply innovative approaches to understanding the connectivity between regional groundwater and surface water supplies.	Study outcomes Research and development, pilot testing, or conceptual design projects implemented	LPS		x	x	x	x	x	x	x

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	6. Expand the technical foundation of using riparian habitat for greenhouse gas mitigation.	Study outcomes	LPS									
Objective E: Develop and maintain a diverse mix of water resources, encouraging their efficient use and development of local water supplies.	1. Conserve or reuse water to meet aggregated retail agency SBX7-7 demand target of 167 gallons per capita day (gpcd) for the region by 2020.	AFY of water conserved AFY of recycled water produced for beneficial use or used by customers Urban and agricultural water conservation programs implemented	SDCWA UWMP LPS		x		x					
	2. Increase local supply development (recycled water, groundwater, desalinated water, surface water) in urban areas.	AFY of seawater desalinated AFY of recycled water used Number of new recycled water connections Number of potable reuse projects studied, designed, or implemented AFY of groundwater produced or recharged Maintenance of groundwater levels	SDCWA UWMP LPS		x	x	x	x				
	3. Implement Colorado River conservation and transfer programs.	AFY of Colorado River water delivered	SDCWA UWMP		x							
	4. Encourage efficient technologies and water conservation in rural areas in order to conserve groundwater resources.	AFY of water conserved Water use audits performed Well meters installed Studies/projects implemented	San Diego County General Plan 2020 LPS		x		x	x				

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	5. Assure that a sustainable long-term supply of groundwater is available in rural areas and minimize impacts to existing groundwater users.	AFY of groundwater produced or recharged Maintenance of groundwater levels	San Diego County General Plan 2020 LPS		x			x				
	6. Develop and implement effective and cost efficient approaches for drinking water source protection.	Studies/projects implemented Improved local water supply quality	LPS		x	x	x	x	x	x	x	
Objective F: Construct, operate, and maintain a reliable infrastructure system.	1. Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries.	AFY of emergency and carry-over supply % of reservoir storage capacity used Increase in operational flexibility	SDCWA ESP LPS		x							
	2. Develop, maintain, and optimize infrastructure and water quality for delivering water, collecting wastewater, and transporting storm water and flood flows.	Infrastructure developed Length of conveyance pipe installed Construction or maintenance projects implemented Water quality projects that maintain use of infrastructure	City of San Diego Rehab/ Replacement Program LPS		x	x	x	x	x	x		
	3. Encourage innovative approaches to sustain or increase groundwater supplies in rural areas.	AFY of groundwater produced or recharged Infrastructure developed	LPS					x				
	4. Create, restore, protect, and maintain habitats that also serve a water resources management function.	Acreage of habitat associated with water resources Acreage of functioning wetlands Volume of transitory flood storage	LPS		x				x	x	x	

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	5. Enable small water systems to effectively construct and maintain their infrastructure.	AFY of supply impacted by project Infrastructure developed Small water systems brought into drinking water compliance Management plans developed	LPS		x	x		x				
Objective G: Enhance natural hydrologic processes to reduce the effects of hydromodification and encourage integrated flood management.	1. Integrate cost-effective flood management benefits into water supply and water quality projects.	Integrated projects implemented AFY of stormwater captured, treated, or reused	LPS		x			x	x	x	x	
	2. Enhance or restore healthy hydrologic processes in the Region's watersheds, notably reducing the negative effects of impervious surfaces.	Decrease in peak flow or total runoff Reduction in flood claims Reduction in road closures due to flooding Acreage of impervious surface restored Acreage of functioning wetlands Volume of transitory flood storage	MS4 Implementation Plans LPS						x	x	x	
	3. Promote watershed management and land use planning that mitigates or avoids typical hydromodification impacts associated with urbanization.	Policies Acreage of permeable surface protected Acreage of riparian or floodplain buffer protected	City and County General Plans LPS	x					x	x	x	

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Objective H: Effectively reduce sources of pollutants and environmental stressors to protect and enhance human health and safety and the environment.	1. Maintain or improve the water quality entering local reservoirs, groundwater, recharge areas, watersheds, and other local water resources.	<p>AFY flow reduction to ocean outfalls</p> <p>Decrease in pollutant concentrations</p> <p>Pounds of trash removed</p> <p>Acreage of buffer vegetation planted</p> <p>Strategies employed</p> <p>TMDL implementation plans developed</p> <p>Number of 303(d)-listed water bodies that are de-listed</p> <p>Measured decreases in pollutant concentrations</p> <p>Reduction in MS4 exceedances</p> <p>BMPs implemented</p>	<p>San Diego County General Plan 2020</p> <p>LPS</p> <p>RWQCB</p> <p>MS4/TMDL Implementation Plans</p> <p>LPS</p>		x	x	x	x	x	x	x
	2. Implement 3-6 individual groundwater basin plans with stakeholder involvement that adhere to the Salinity/Nutrient Management Guidelines that will assist in the preservation of the quality of the Region's water resources.	<p>Groundwater basin plans implemented</p>	<p>Groundwater Basin Plans</p> <p>LPS</p>		x		x	x		x	x
	3. Develop and implement effective and cost efficient source management strategies to address regionally-significant constituents (e.g., pathogens, nutrients, sediments).	<p>Volume of fertilizer/pesticide applied</p> <p>Decrease in sediment transport</p> <p>Strategies employed</p>	<p>MS4 Implementation Plans</p> <p>Basin Plans</p> <p>LPS</p>		x	x	x	x	x		x

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	4. Reduce the frequency and volume of sanitary sewer overflows within the Region.	Number of sewer overflows Reduced beach postings Volume of sewer overflows per mile of pipe	RWQCB SSO Report LPS									
	5. Implement Low Impact Development (LID) practices to reduce non-stormwater runoff.	Decrease in peak flow or total runoff Volume of water retained	MS4 Implementation Plans LPS						x			
	6. Plan and implement stormwater or natural treatment systems on a watershed scale to improve water quality.	Decrease in pollutant concentrations Reduced beach postings Acreage of functioning wetlands	MS4 Implementation Plans LPS						x	x	x	
	7. Protect and improve groundwater quality in rural basins to ensure compliance with drinking water standards.	Decrease in pollutant concentrations Compliance with MCLs	County DEHS LPS		x		x	x				
Objective I: Protect, restore, and maintain habitat and open space.	1. Conserve, protect, and restore habitat, open space, and sensitive species associated with water resources, including functional aquatic, riparian, and wetland habitat and associated buffer habitat.	Acreage of habitat or open space Number of parcels acquired Number of sensitive species with potential to occur on site Presence/ absence of sensitive species	LPS		x				x	x	x	
	2. Remove and control non-native invasive plants that are impacting regional water resources.	Acreage of invasive plants % of native planting survival % percent increase in flow capacity Water resources affected	LPS						x	x	x	

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	3. Monitor, manage, control, and prevent establishment of nuisance aquatic species in the Region.	Water resources affected Increase in operational time due to control	LPS		x							x
Objective J: Optimize water-based recreational opportunities.	1. Develop water-based recreational open space that focuses on underserved areas and ensures equal access for disadvantaged communities.	Acreage of open space Number of visitors	LPS									
	2. Develop new public access points (boat launch facilities, fishing floats or piers, swim beaches, trails, stairs, parking areas, or similar) to recreational surface waters.	Number of public access points Number of visitors Length of trail Connectivity between existing open spaces	LPS		x				x	x	x	
Objective K: Effectively address climate change through adaptation or mitigation in water resource management.	1. Encourage development of cost-effective and energy efficient strategies for water management projects.	kWh of energy offset Efficiency strategies implemented	LPS		x	x	x	x	x	x	x	
	2. Incorporate adaptation strategies to respond to sea-level rise, rainfall variability, and temperature variability in planning for water and wastewater management.	Adaptation measures implemented	LPS		x	x	x	x	x	x	x	
	3. Reduce or neutralize GHG emissions (from water production and transport) in water resource management.	GHG emissions offset or neutralized Mitigation measures implemented	LPS		x	x	x	x	x	x	x	