



#### **Presentation to NR&C**

#### April 20<sup>th</sup>, 2011

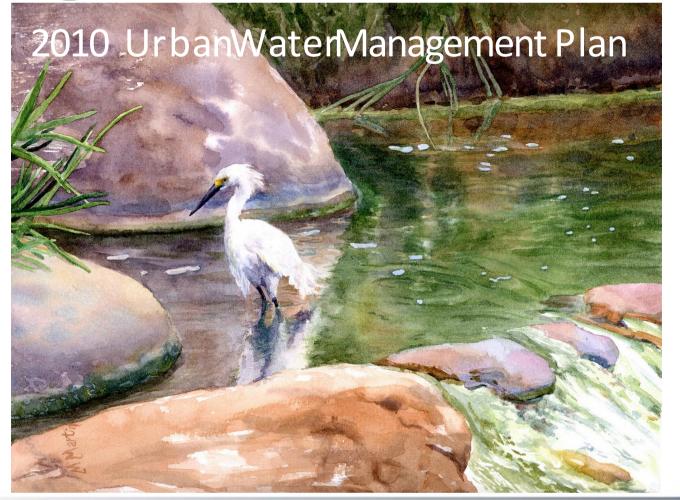








PUBLIC UTILITIES DEPARTMENT







#### **UWMP Background**

- UWMP Act required by law every 5 years
  - Water Code Sections 10610-10656
  - Established: AB 797 Klehs, 1983
  - 3,000 connections/3,000 ac-ft/yr
- Provide a 25 year estimate of water supplies and demands (to 2035)
- Drought planning
- Required for funding or drought assistance from state

### 2010 UWMP background cont..



- Includes detailed information (actions, steps, schedule) on future supply development
- Coordination with other agencies

# Inter Agency Coordination

- San Diego County Water Authority
- SANDAG
- Local water agencies
  - California American Water (Coronado and Imperial Beach)
  - Otay Water District
  - Olivenhain Municipal Water District
  - Santa Fe Irrigation District
  - San Dieguito Water District
  - City of Poway
- City and County notification
- Other

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### City of San Diego - UWMP Objectives

- Satisfy Department of Water Resources (DWR) requirements
  - Provide a 25 year estimate of water demands and verifiable supplies (to 2035)
- Foundation for Integrated Regional Water Management Plan (IRWMP)
- Foundation and justification for water supply assessments (SB 610 and 221)



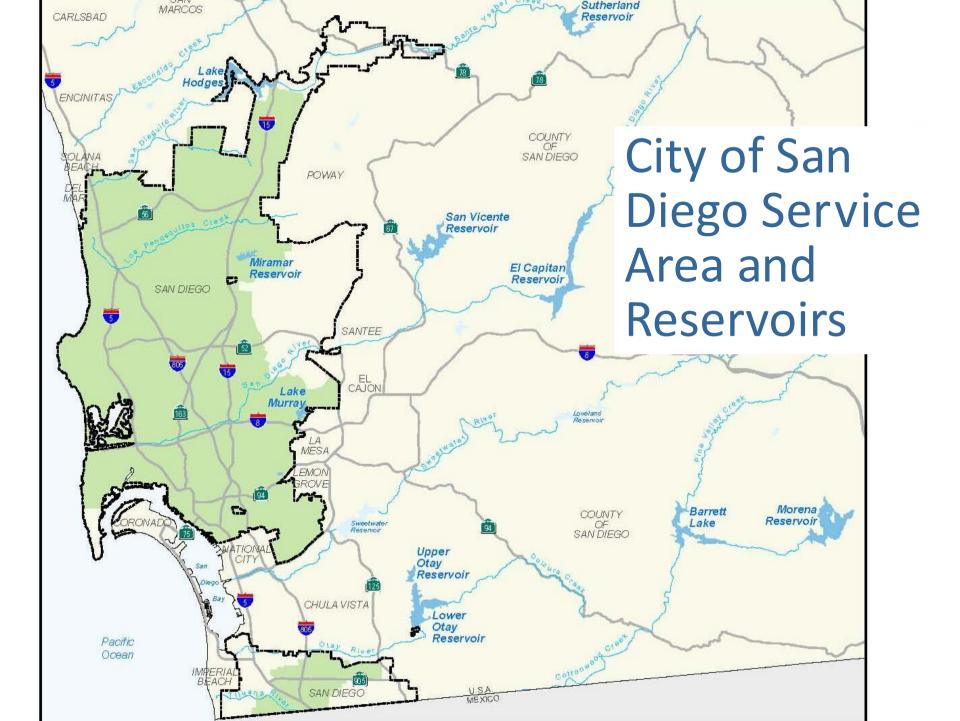
#### New UWMP Requirements

- Due to recent changes in UWMP requirements, State law (SBX7-7) extended the deadline for the 2010 Plans to July 1, 2011.
- Legislation in 2009, SBX 7-7 (20% reduction is statewide urban water use by 2020), GPCD target
  - Interim 2015 target
  - 2020 target
- Lowerincome household water use (SB 1087)
- Water conservation reporting
- Grants/loans conditioned on Demand Management Measures (DMM) implementation
- 60-day City/County notification



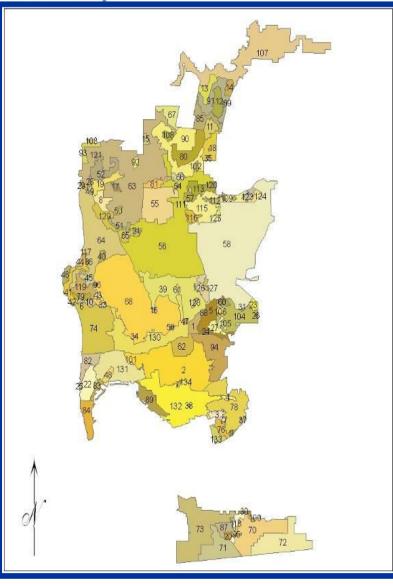
#### SANDAG 2050 Regional Growth Forecast – Series 12

- Approved by SANDAG Board in February 2010
- New forecast includes:
  - Population, single- and multi-family housing units, employment counts, household income
  - Agency General/Specific plan updates approved since the last forecast
  - Updated economic outlook based on the current recession
  - Compliant with SB-375 requirement for sufficient housing to meet projected housing demand

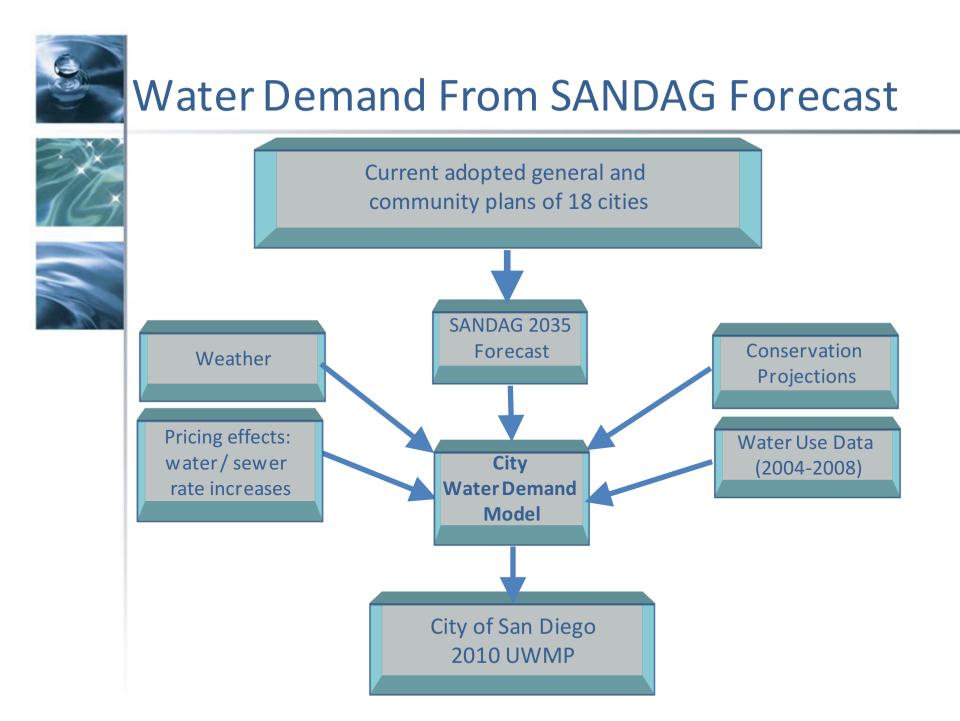




#### Data Used for Water Demand Forecast



- SANDAG 2050 Update, Series 12
  - Employment
  - SF and MF occupied households
  - SF and MF housing density (computed from acreage)
  - Median household income
- Marginal price of water & sewer
- Weather data
  - historical observed
  - Climate change scenarios
- Historical Water use data
  - Customer billing information, premise code, and month
  - Wholesale water use
  - Percent NRW from annual report
  - Conservation savings and future programs





# Water Demands

	2015	2020	2025	2030	2035
<b>2005 UWMP demands</b> (SANDAG Series 10 forecast - acre-ft/ year)	246,378	256,460	266,438	275,925	
Draft 2010 UWMP demands (SANDAG Series 12 forecast - acre- ft/ year)	250,460	263,728	274,856	282,295	292,049
% change	1.7%	2.8%	3.2%	2.3%	

-Includes retail and wholesale potable demands and retail recycled water demands -The 2010 demands are currently being analyzed and are not final.

### SBx7-7 (20x2020 conservation plan)



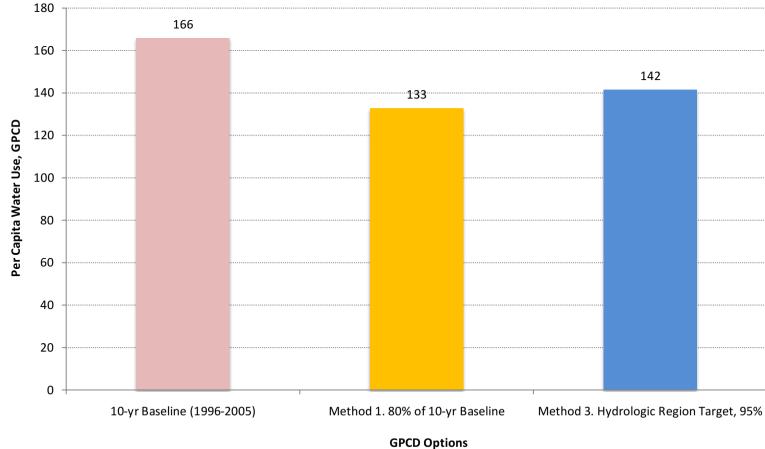
GPCD Target methods:

- 1. 80% of 10-yr baseline
- 2. indoor residential and outdoor budget
- 3. 95% of hydrological region target
- provisional method based on indoor, CII, and outdoor targets

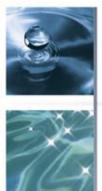


#### **GPCD** Options





#### **GPCD** Target Options



#### Water Supplies

### Imported Water 85%

- Colorado River
- State Water Project



San Vicente Reservoir

#### Local Supplies – Verifiable

- Local Surface Water
- Recycled Water

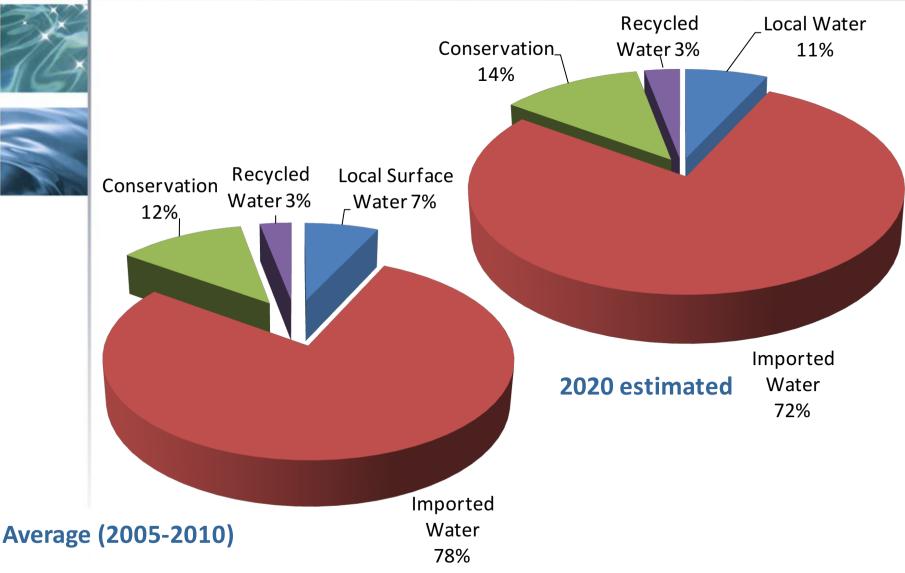


Bay-Delta

LAAguedug

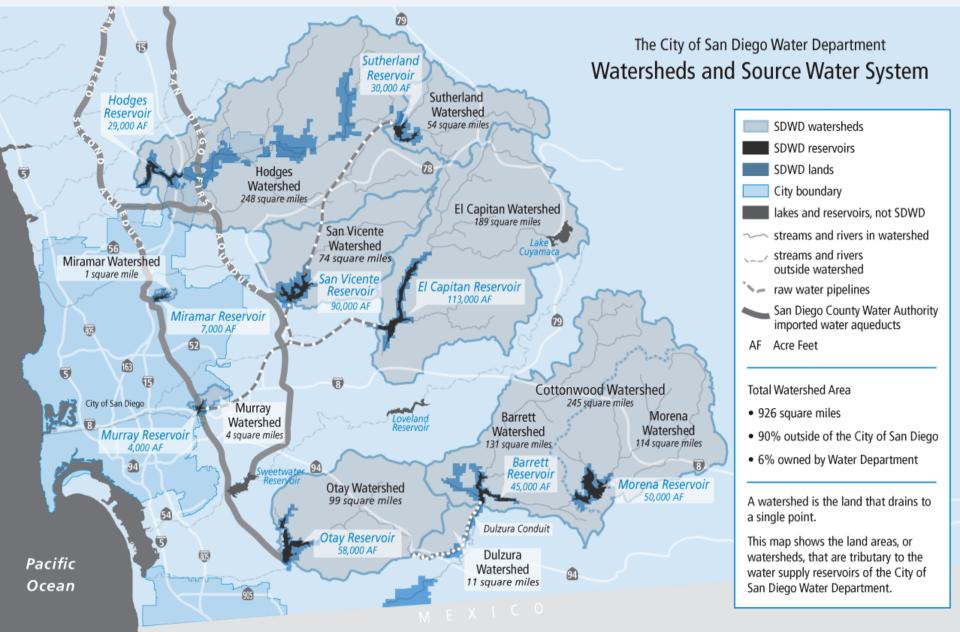


#### Water Supplies



#### **Local Runoff**

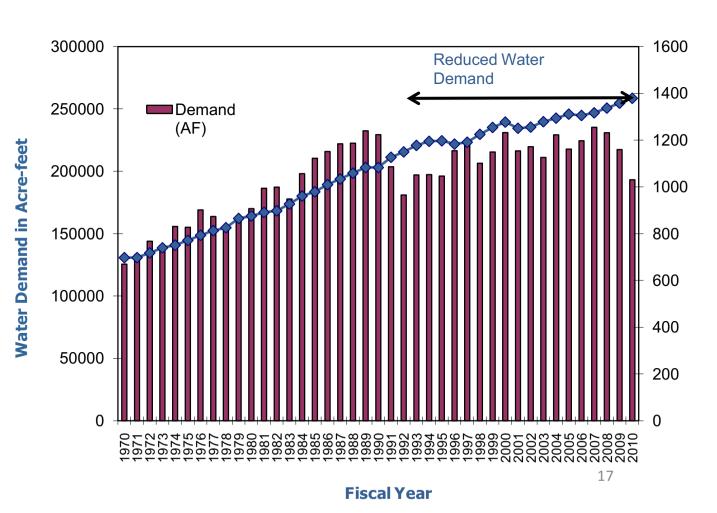
#### Average Local Runoff: 29,000AF/yr





#### San Diego is Conserving





Population x 1000



### **City Helps Residents Conserve Water**

**Incentives** 

**VATER TO WASTE** 

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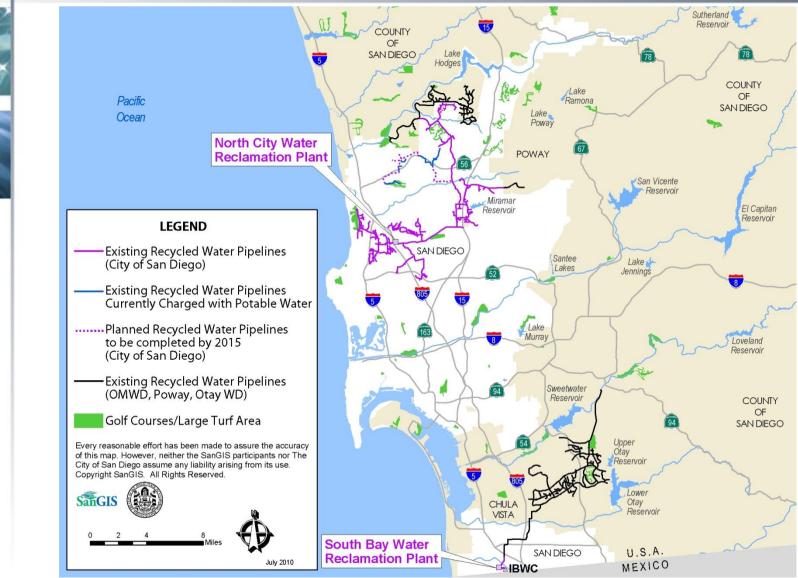
Water Audits/Surveys

#### **Informing the Public**





#### City of San Diego Recycled Water System





#### Groundwater



### **Future Water Supply Actions**

- Update to the 2002 Long-Range Water Resources Plan (LRWRP)
- The LRWRP will evaluate water supply:
  - Costs (economic, environmental, social)
  - Reliability
  - Water Quality
  - Flexibility
  - Risk
- Establish optimum water supply mix
- Estimated Completion: January, 2012



## City of San Diego 2010 UWMP Schedule

<	Activity	Date
	DWR releases 2010 UWMP Guidebook	March 4, 2011
	Summary Presentation to IROC E &T	April 11, 2011
	60 Day Public Hearing Notice to Cities and County	April 18, 2011
	Summary Presentation to NR&C	April 20, 2011
	2010 UWMP presentation to IROC	May 16, 2011
	2010 UWMP presentation to NR&C	May 18, 2011
	Presentation to City Council (Public Hearing) – Adoption of 2010 UWMP	June 20 or 21, 2011
	Submit adopted 2010 UWMP to DWR	July 20, 2011

# Questions?

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