

2015 Urban Water Management Plan

Public Utilities Department

**City Council
June 28, 2016**

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Background

Urban Water Management Plans are required by the State:

1. Completed/updated every 5 years
2. Pre-requisite for certain loans and grants
3. Foundational documents for new development
4. Support long-term and drought planning
 - a. 25 year horizon

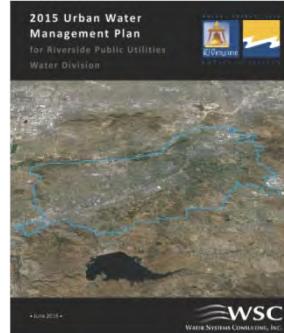


2

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Elements

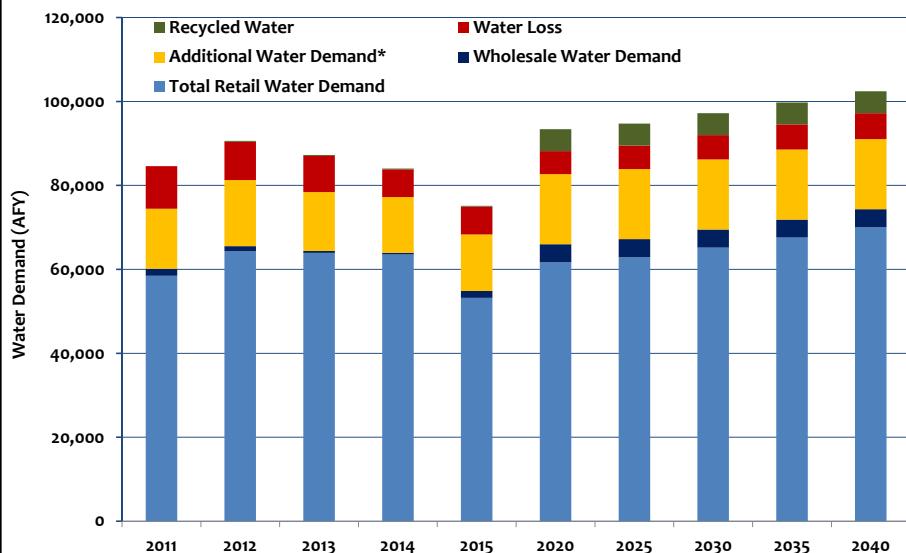
1. Supply vs. Demand
2. SBX7-7 Compliance
 - a. 20% reduction X 2020
3. Source reliability
4. Water Shortage contingencies
5. Demand Management Measures (DMM)

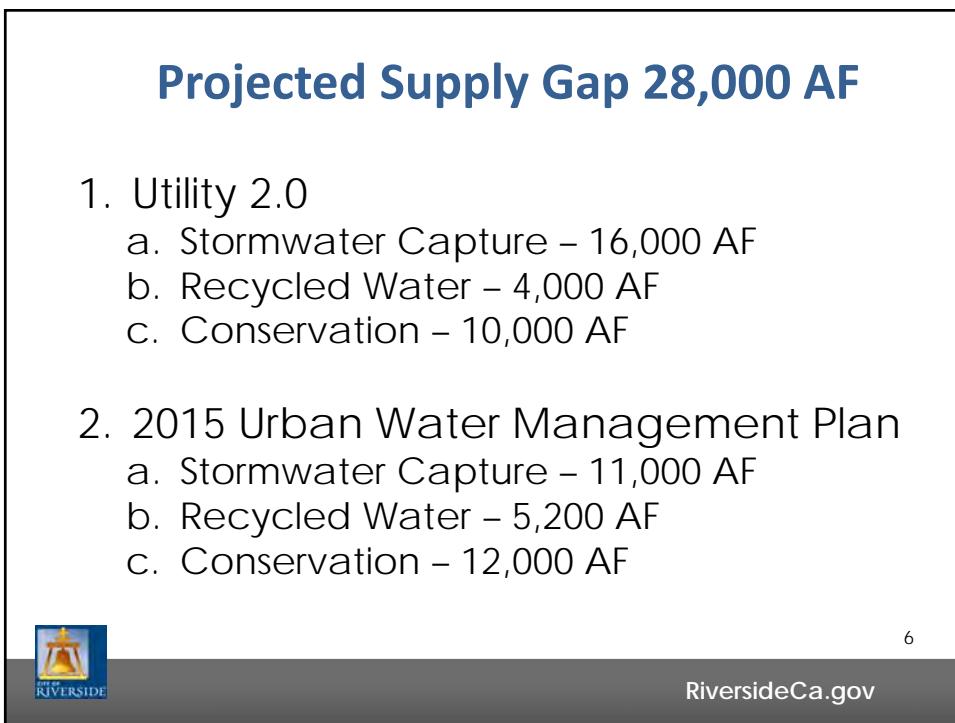
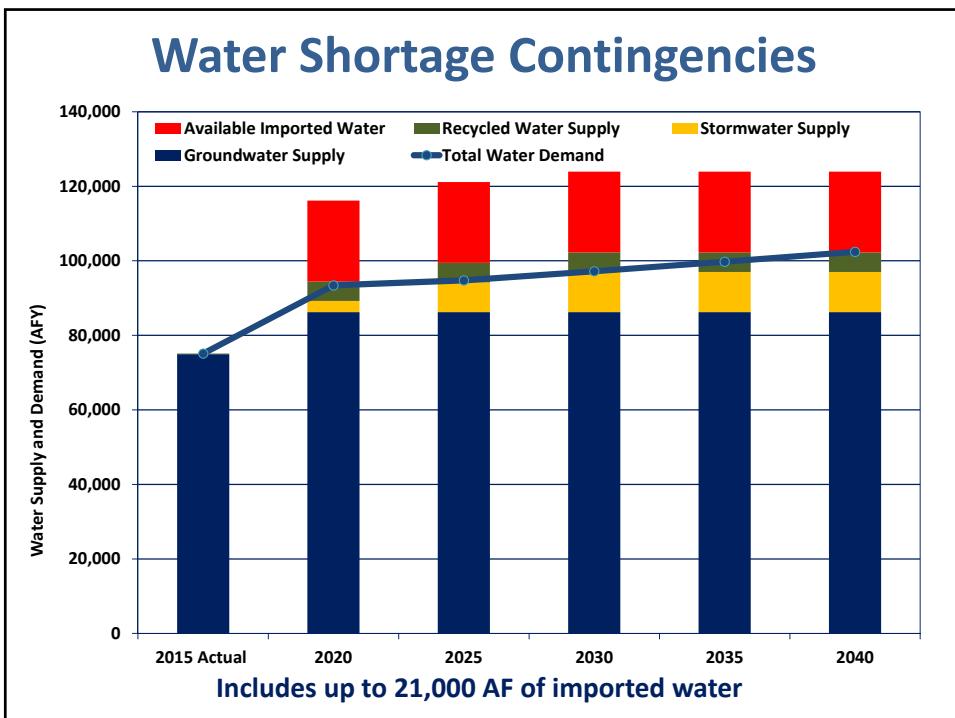


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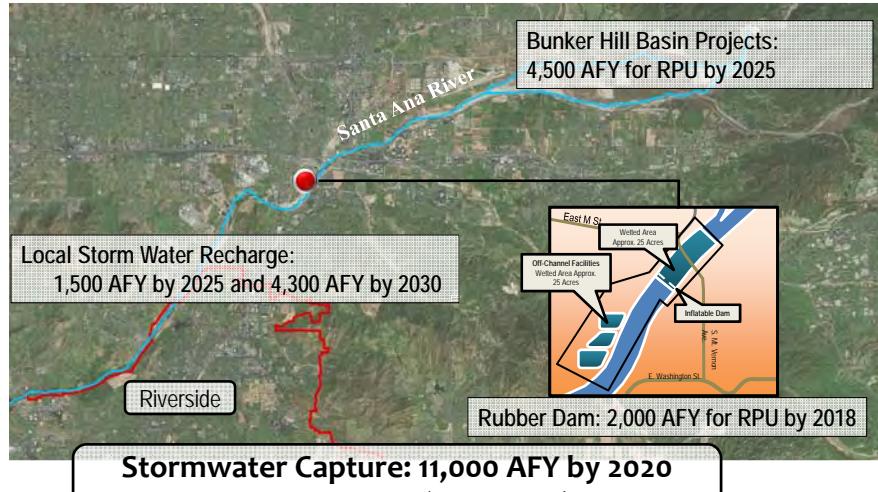
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Demands: Actual and Projected





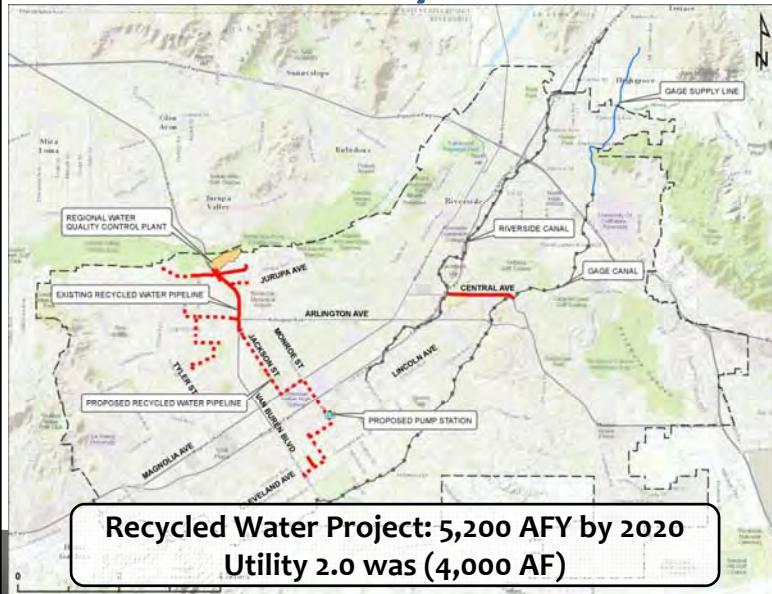
Planned Water Supply Projects: Storm Water Capture



7

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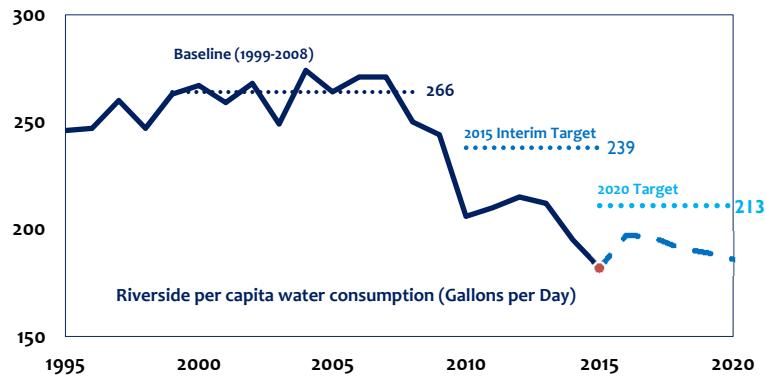
Planned Water Supply Projects: Recycled Water



8

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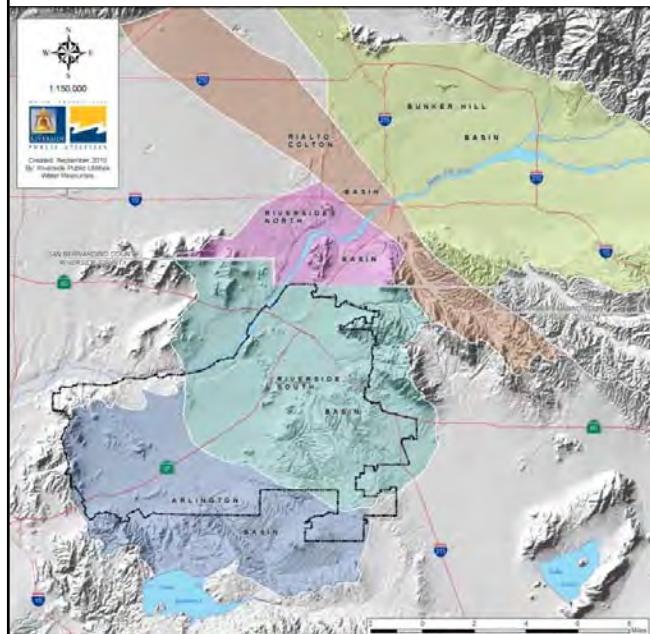
Water Conservation SBX7-7 (Water Conservation Act, 2009)



9

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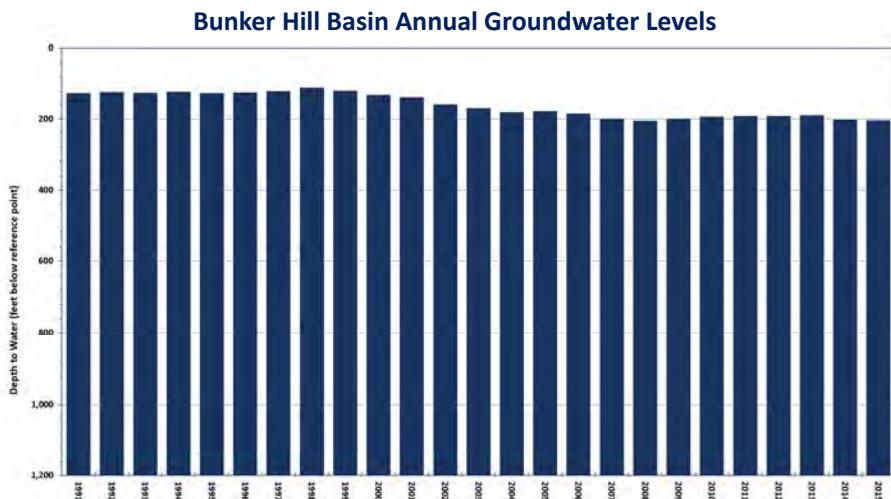
Water Supply Reliability



10

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Source Reliability



Source Reliability

1. Water supplies are reliable for single and multiple year dry periods
2. Reliability increases with groundwater recharge projects



Demand Management Measures

DMM	Status
1. Water waste prevention ordinances	Green
2. Metering	Green
3. Conservation pricing	Green
4. Public education and outreach	Green
5. Real water loss management programs and systems	Green
6. Water conservation program and staffing support	Green
7. Other Demand Management Measures	Green



13

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2015 UWMP Conclusions

RPU's identified supplies exceed the expected demands through 2040 provided that it:

1. Continues conservation efforts
2. Implements long-range planning and developing new supplies



14

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2015 UWMP Conclusions

3. RPU meets customer demands in a cost-effective and environmentally responsible manner
4. RPU effectively manages water resources by proactive planning and projects implementation
5. Utility 2.0 to be modified slightly based on changed conditions



15

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Recommendations

That the City Council :

Adopt the 2015 Urban Water Management Plan.



16

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Water Conservation SBX7-7

(Water Conservation Act, 2009)

Baseline Calculation

- DWR Population Tool to re-calculate:
 1. service area population
 2. baseline per-capita use
 3. compliance targets GPCD
- Baseline Periods: RPU chose a 10 years period from 1999-2008



Baseline Year	Service Area Population	Annual Gross Water Use	(GPCD)
1999	247,753	72,610	262
2000	249,744	74,465	266
2001	252,935	73,314	259
2002	256,166	78,137	272
2003	259,439	73,805	254
2004	262,754	82,085	279
2005	266,111	80,114	269
2006	269,511	82,734	274
2007	272,954	83,562	273
2008	276,441	78,237	253
10 Year Average Baseline GPCD			266