Massachusetts Water Resources Authority

Presentation to the

MWRA Advisory Board
Wastewater Advisory Committee
and
Water Supply Citizens Advisory Committee

THE CHALLENGES AHEAD

Frederick A. Laskey Executive Director

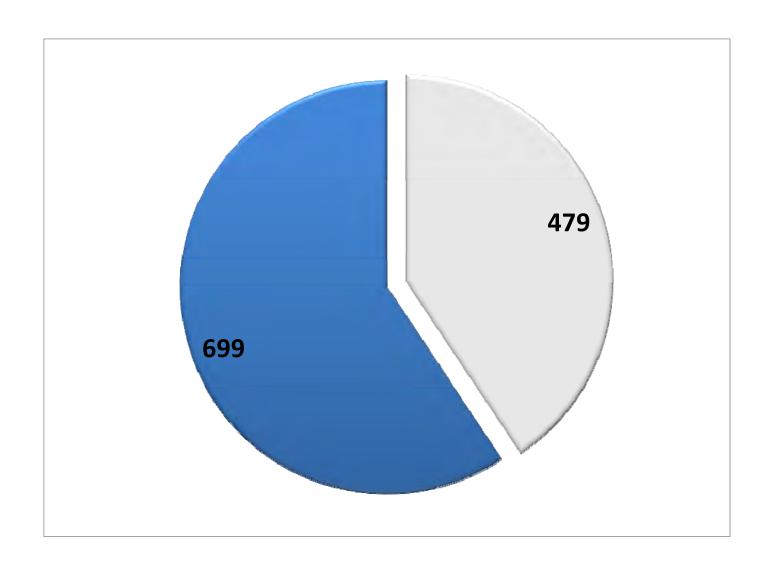
September 20, 2012

Succession Planning

- The average age of MWRA employees is 52
- The average years of service is 18.5 years

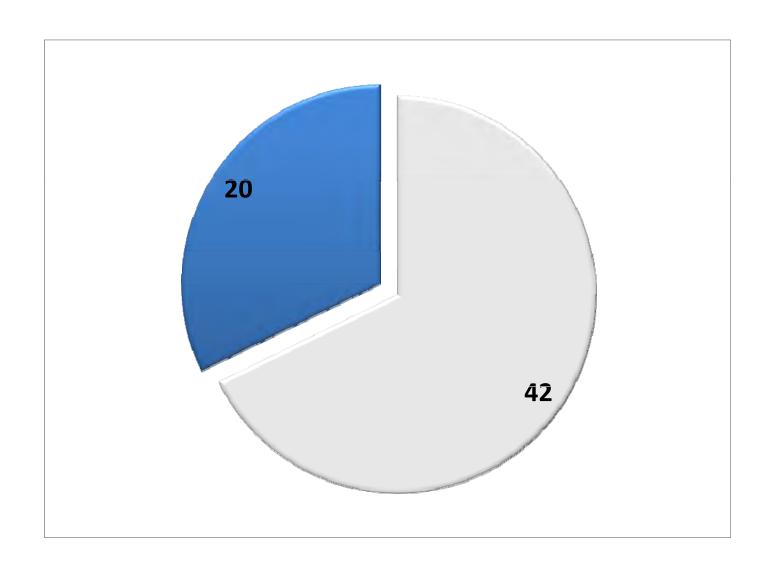


40 Percent of MWRA's Workforce is Age 55 or Older



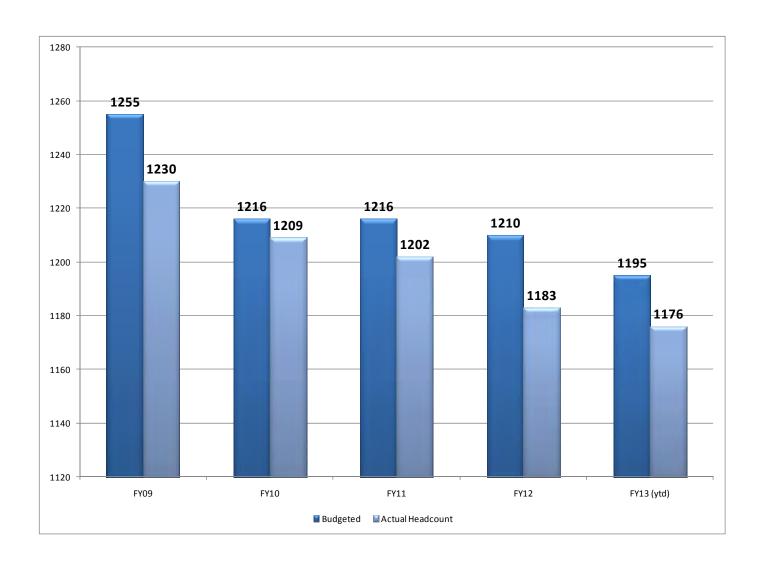


67 Percent of MWRA's Senior Managers are Age 55 or Older





Staffing Trend Continues Downward

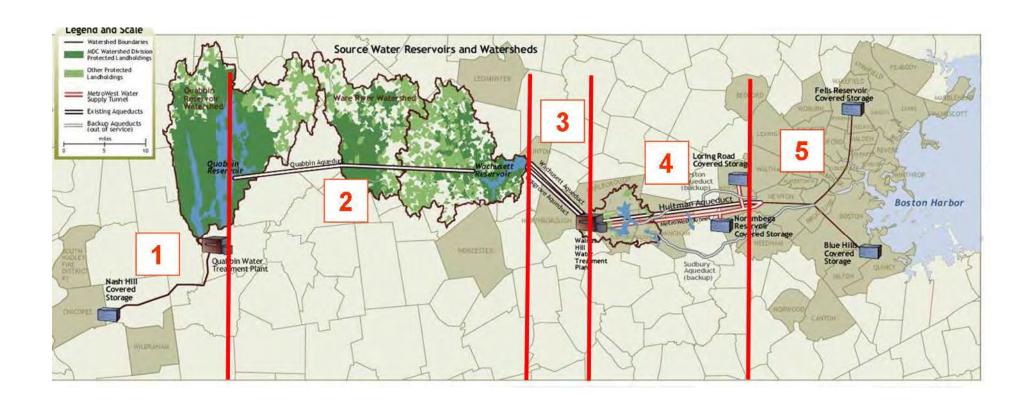




- Automation
- Extensive SOPs
- Cross-training
- Selective recruitment



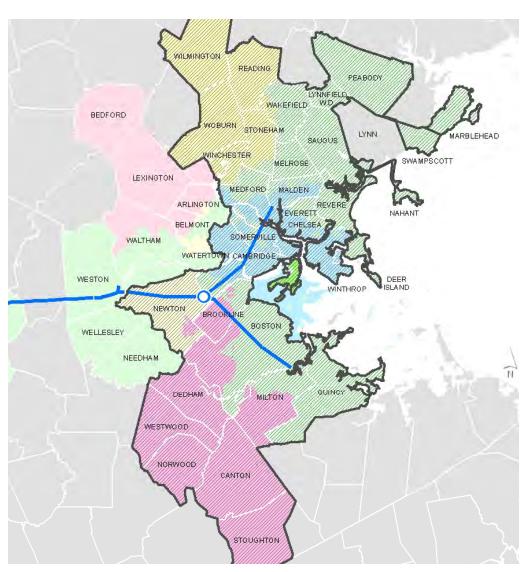
On-Going Redundancy Initiatives





Consequences of Shaft 7 Failure

- Failure of Shaft 7 would affect most of the service area
 - Boil Water Order
 - Activate Sudbury
 Aqueduct, Chestnut
 Hill Reservoir and
 Pump Station for
 south
 - Activate Spot Pond
 Reservoir for north



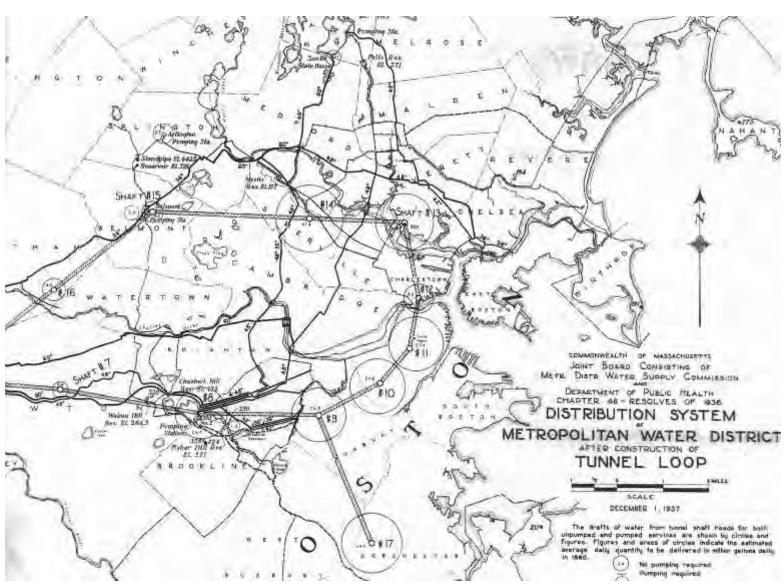


Redundancy Planning is Not New

- 1930s Waterworks Master Plan raised the idea of the Northern Tunnel Loop
- 1950s City Tunnel includes a stub was included in Watertown
- 1960s City Tunnel Extension includes a stub at Shaft 9 in Somerville
- 1980s Anderson-Nichols study reinforced need for redundancy
- 1990s MetroWest Tunnel planning
- Current CIP has \$700 million in redundancy projects

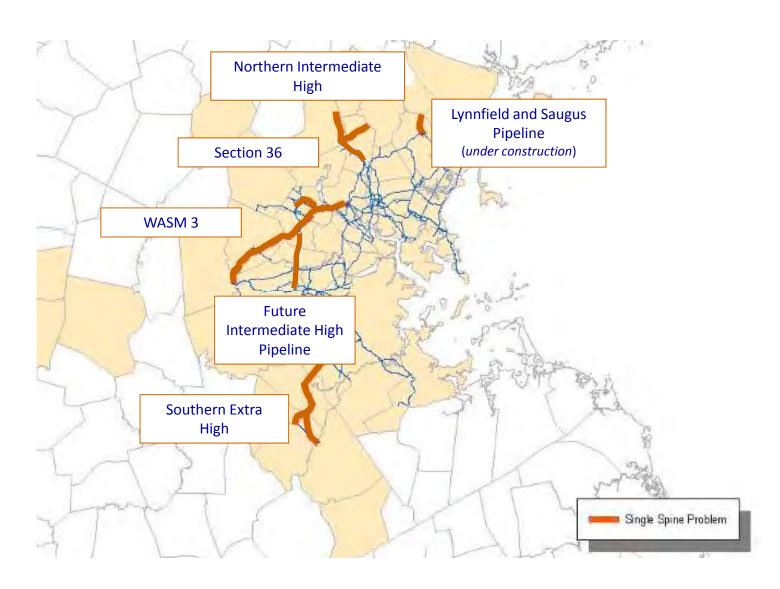


1937 Tunnel Loop Plan





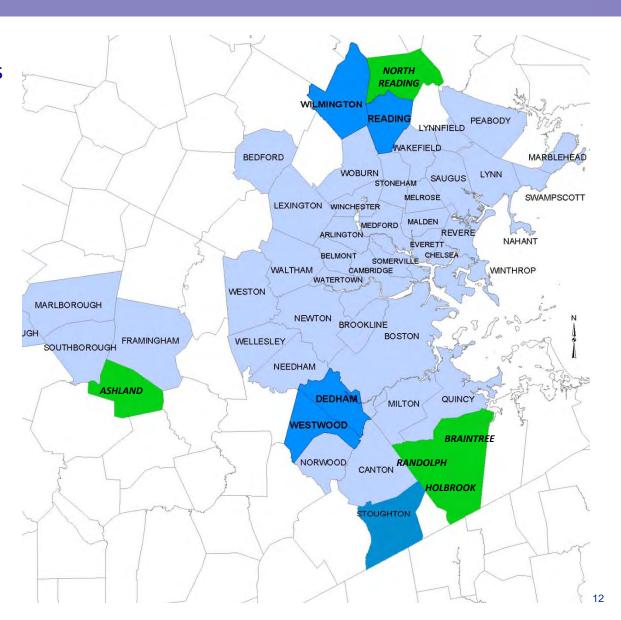
Single Spine Problems





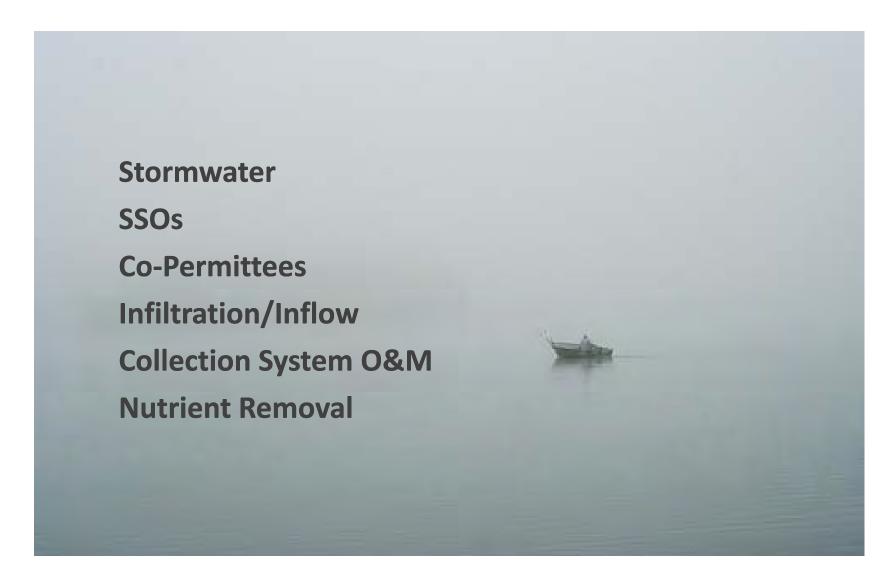
Potential System Expansion

- MWRA has had inquiries from
 - Ashland
 - North Reading
 - Tri-Town
 (Braintree,
 Randolph and
 Holbrook)



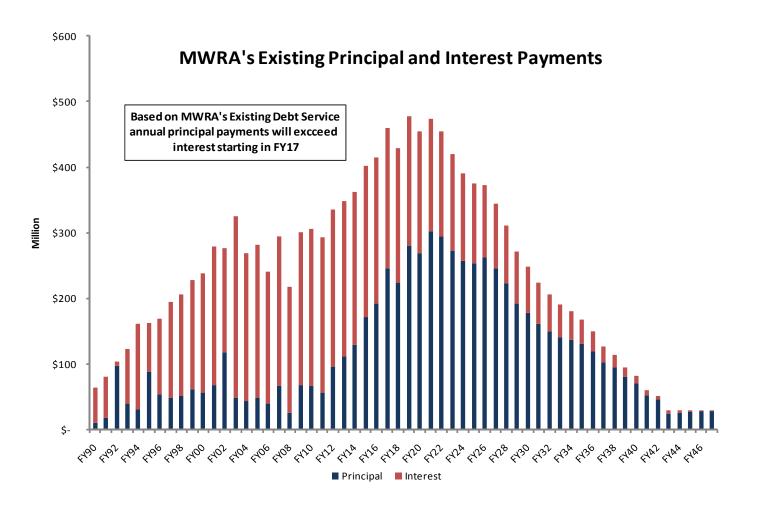


New Regulatory Requirements for Wastewater



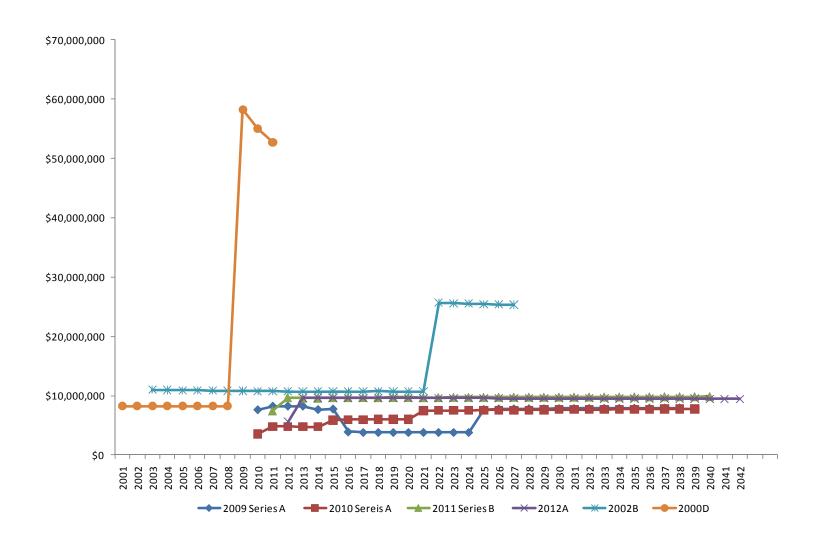
Debt Service

Since 1990 MWRA has issued \$7.1 billion to fund construction and paid \$1.5 billion in principal - \$5.6 billion total indebtedness



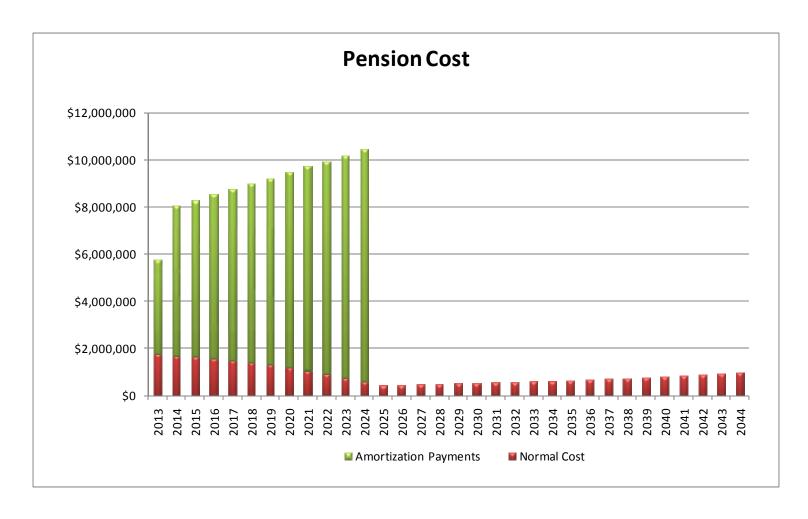


Impact of Bond Structures

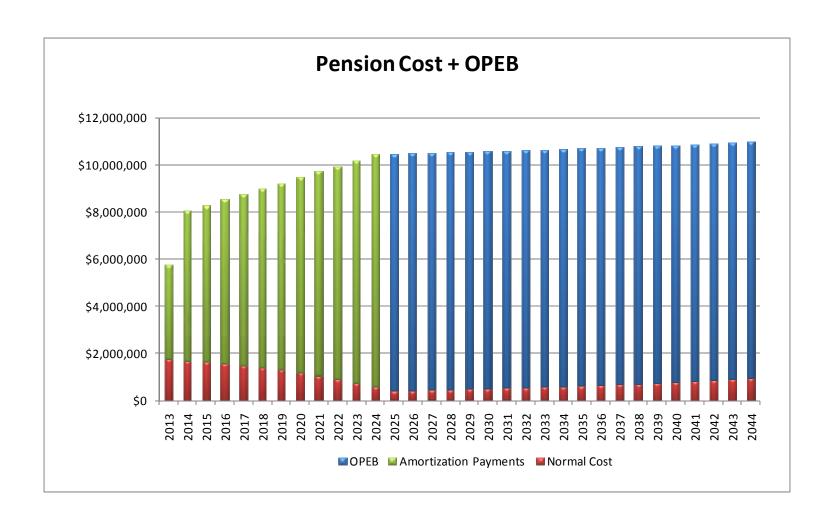




\$42 million unfunded liability to amortize in 2024 rather than 2040



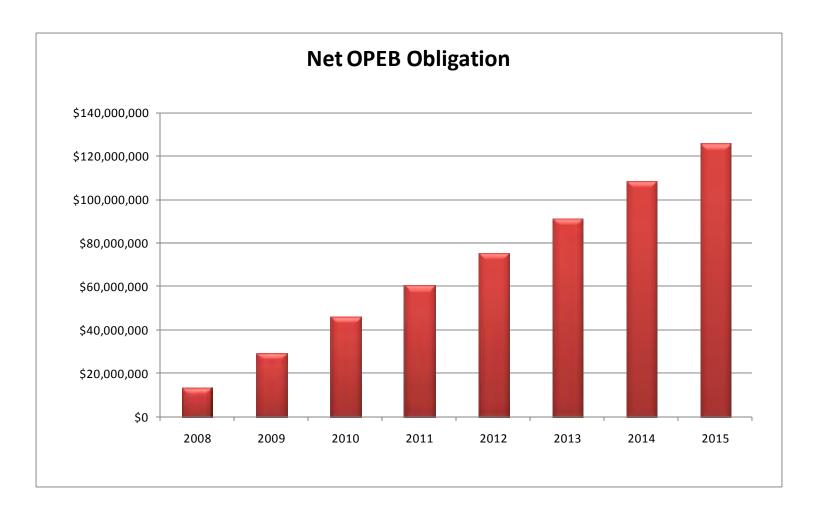






Other Post-Employment Benefits

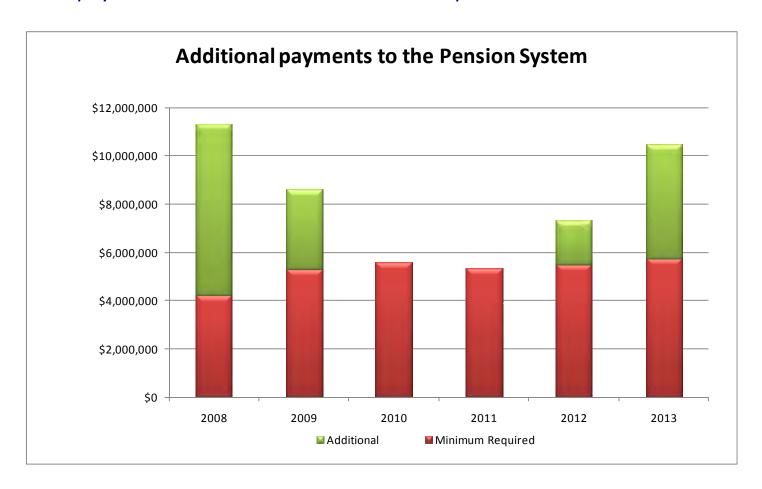
MWRA's OPEB liability continues to grow





Addressing the Pension Challenge

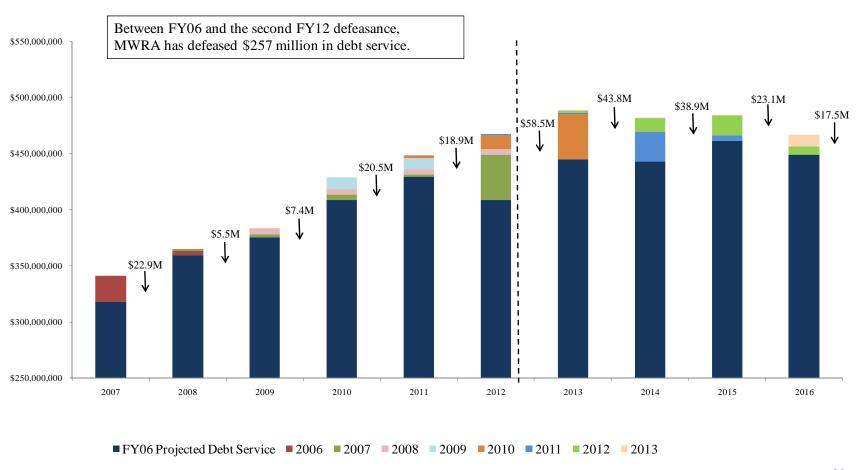
 MWRA has made additional payment to the pension fund to lower future annual payments or shorten the amortization period





Addressing the Debt Challenge

Impact of Defeasances FY06-FY12





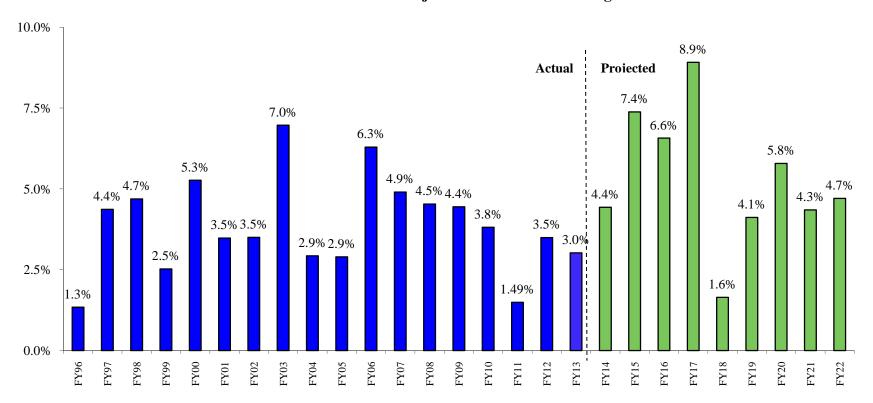
Addressing These Challenges

- Pay now or Pay more later
 - Generational equity is fair but deferral should be used sparingly
- Resist simple solutions
 - Deferring principle payments
 - Extending the time to payoff



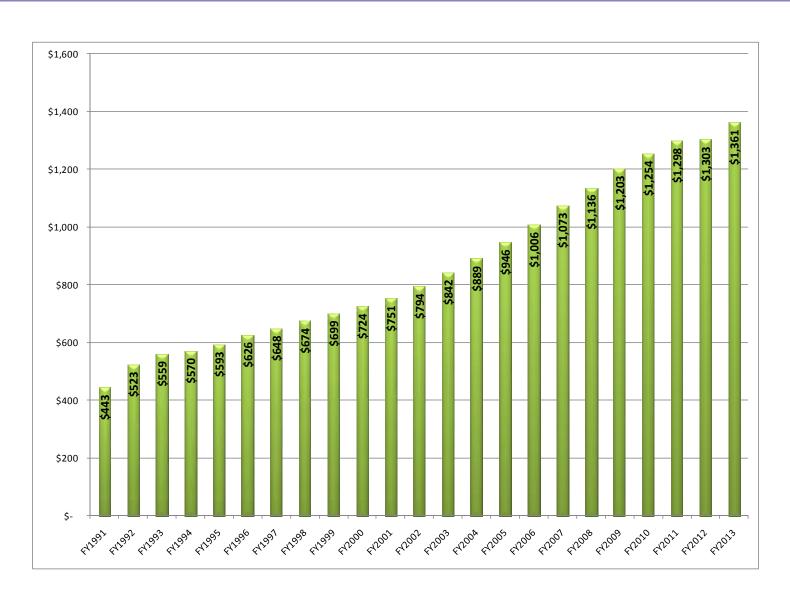
Rate Increase History and Projections

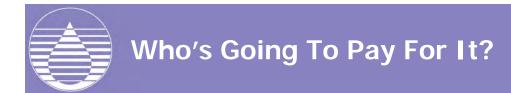
Historical and Projected Rate Revenue Changes





Household Water and Sewer Bills





- The same ratepayers...
 - Unemployment is still high
 - Foreclosures are up