

# **Long-Term Financial Stability Workshop 1**

Board of Directors  
March 25, 2014

# Agenda



- Introduction
- Proposed Strategic Plan goal update
  - Long-Term Financial Stability
- Financial planning model

# Introduction

# Background



- Supply shortage and recession required a focus on short-term cost containment
- FY 2014 and FY 2015 budget cycle shifted focus back to Long-Term Financial Stability
  - Invest in capital
  - Invest in operations
  - Make conservative assumptions

# Why Are We Here?



- Character of our challenges has changed
  - Past Decade
    - Plan for supply diversification and reliability
    - Invest in supplemental supply infrastructure
  - Next decade
    - Invest in replacement and reconstruction of existing assets
    - Integrate, operate, and fund supplemental supplies
- Strategic and financial plans should reflect this change
  - Update strategic plan goal
  - Re-evaluate financial policies
  - Provide long-term visibility into rates and charges
  - Foundation for FY16 and FY17 budget/rates

# Schedule



Workshop 1	Today
Workshop 2	July 2014
Workshop 3	September 2014
Workshop 4	November 2014
Budget/Rates Workshops	March 2015
Budget/Rates Adoption	June 2015

# Proposed Workshop Topics



<b>Workshop 1</b> <i>Introduction</i>	<b>Workshop 2</b> <i>Capital Plan</i>	<b>Workshop 3</b> <i>Reserves</i>	<b>Workshop 4</b> <i>Rates</i>
<ul style="list-style-type: none"><li>• Strategic Plan Update</li><li>• Review Financial Planning Model</li><li>• How policies drive revenue requirements</li></ul>	<ul style="list-style-type: none"><li>• CIP Projections</li><li>• Review/evaluate capital investment policies</li><li>• CIP funding: debt vs. cash</li><li>• Debt Service Coverage Ratios</li></ul>	<ul style="list-style-type: none"><li>• Demand projections and variability</li><li>• Funding drought costs</li><li>• Fixed/variable revenues</li><li>• Review/evaluate reserve policies</li><li>• Seismic Improvement program</li></ul>	<ul style="list-style-type: none"><li>• Develop Financial Forecast based on Workshops 1-3</li><li>• Review preliminary results of Cost of Service study</li></ul>

# Proposed Strategic Plan Update

# District Strategic Plan



## Goals

Long-Term Water Supply

Water Quality &  
Environmental Protection

Long-Term Infrastructure  
Investment

Long-Term Financial  
Stability

Customer Service

Workforce Planning &  
Development

- Originally developed 2004
- Goals, Strategies, Objectives, and KPI's
- Last updated 2012
- Cross-functional teams have developed proposed changes
- Proposed changes to be considered with mid-cycle budget update on May 27, 2014

# Consolidate Strategies



	Proposed	Current
Strategy 1	<b>Develop a Long-Range Financing Plan that sets forth the long-term funding needs of the District</b>	Ensure Sufficient Revenues to cover the District's needs
Strategy 2	<b>Implement water and wastewater rates and charges that are legal, fair, and equitable</b>	Maintain a strong financial position to meet short and long-term needs
Strategy 3	<b>Ensure Integrity, accountability and transparency in financial management</b>	Maintain the integrity of District financial systems
Strategy 4	<b>Implement new technologies that improve the efficiency and effectiveness of business processes</b>	Make the best use of every dollar spent
Strategy 5	N/A	Evaluate and implement technologies that lower cost and/or improve service

# Strategy 1—Objectives



<b>Strategy 1</b>	<b><i>Develop a Long-Range Financing Plan that sets forth the long-term funding needs of the District</i></b>
Objectives	<ul style="list-style-type: none"><li>• Develop and maintain financial planning models to include long-term forecasts of operating and capital expenditures, revenue requirements and rates and charges</li><li>• Ensure the long-term financial plan is based on reasonable, conservative assumptions and accounts for uncertainties</li><li>• Ensure the long-term plan maintains the District’s good standing in the credit markets to provide ready access to cost-effective capital financing</li><li>• Evaluate the District’s capital financing and debt service coverage policies to optimize cash funding of capital investments</li><li>• Evaluate the District’s cash reserve policies to consider optimal uses and levels of reserves, including alternative strategies for funding drought-related costs</li></ul>

# Strategy 2—Objectives



<b>Strategy 2</b>	<b><i>Implement water and wastewater rates and charges that are legal, fair and equitable</i></b>
Objectives	<ul style="list-style-type: none"><li>• Plan for rate increases that are steady and predictable</li><li>• Mitigate increases in rates and charges by optimizing use of non-rate revenue and pursuing opportunities for cost efficiencies and new technologies</li><li>• Establish rates and charges based on cost-of-service principles</li><li>• Periodically conduct third-party cost of service studies</li></ul>

# Financial Planning Model

# Financial Planning Model



- How the model works
- How financial policies drive revenue requirement
- Model outputs

# How The Model Works



- Revenue Requirement from Rates & Charges based on assumptions and financial policies
  - + Operating Expenditures
  - + Debt Service Payments
  - + PAYGO Capital Expenditures
  - Non-Rate Revenues
  - = Revenue Requirement from Rates & Charges

- Debt/PAYGO funding of capital plan—*no more than 65% over 5-year period*
- Debt Service Coverage Ratio (DSCR)—*at least 1.60x coverage*
- Reserve levels—*various targets for each reserve type (working capital, self-insurance, workers compensation, contingency/rate stabilization)*

# Capital Financing Mix



	Debt Funding	“Pay-As You Go” or Cash Funding
Description	<ul style="list-style-type: none"><li>• Issue bonds to pay project costs and repay principal with interest over 30 years</li></ul>	<ul style="list-style-type: none"><li>• Pay project costs out of current year revenues</li></ul>
Typical use	<ul style="list-style-type: none"><li>• Large, “one-time” projects</li><li>• Spread cost over current and future customers</li><li>• Urgent project need</li></ul>	<ul style="list-style-type: none"><li>• Replacement and reconstruction costs are regular and predictable</li></ul>
Considerations	<ul style="list-style-type: none"><li>• Higher total cost; interest doubles the cost; mitigates near-term rate impact</li><li>• Leverage reduces future financial flexibility</li></ul>	<ul style="list-style-type: none"><li>• Lower total cost; more funding for capital projects; near-term rate impact</li><li>• PAYGO increases future financial flexibility</li></ul>

# Revenue Requirement Impact



- Capital project costs increase Revenue Requirement differently, depending on funding—Debt (over time), PAYGO (current year)

*\$10 million Capital Project*

	Total Cost	Recoverd Over	Annual Cost
PAYGO	\$10 MM	1 year	\$10 MM
Debt	\$19 MM	30 years	\$632,000

+ Operating Expenditures

+ Debt Service Payments



*\$632,000*

+ PAYGO Capital Expenditures



*\$10 million*

- Non-Rate Revenues

= Revenue Requirement from Rates & Charges

# Debt Service Coverage Ratio (DSCR)



- Bond Indenture establishes a pledge of “Net Revenues” as security to bondholders and sets forth a priority of payments

$$\begin{aligned} &+ \text{ Operating Revenues} \\ &- \text{ Operating Expenditures} \\ &= \text{ Net Revenues} \\ &- \text{ Debt Service} \\ &- \text{ Rate-Funded Capital*} \end{aligned}$$

## DSCR Definition

$$\frac{\text{Net Revenues}}{\text{Debt Service}}$$

- Measures ability to meet debt service payments from current year revenues
- Primary financial metric and indicator of financial sustainability

\*Or other legal use such as reserves

# Debt Service Coverage Ratio (DSCR)



+ Operating Revenues	\$200 MM
- <u>Operating Expenditures</u>	<u>\$50 MM</u>
= Net Revenues	\$150 MM
- Debt Service	- \$100 MM

## ***DSCR***

$$\frac{\$150 \text{ MM}}{\$100 \text{ MM}} = 1.50x$$

- Meeting a higher DSCR would require higher operating revenues (e.g. rates)

# Debt Service Coverage Ratio (DSCR)



+ Operating Revenues	\$200 MM
- <u>Operating Expenditures</u>	<u>\$50 MM</u>
= Net Revenues	\$150 MM
- Debt Service	- \$100 MM
= Net Revenues After D/S	\$50 MM

- Net Revenue After Debt Service is used for PAYGO capital
- While higher DSCR means higher rates, it also means more money for PAYGO capital
- DSCR and CIP funding policies go hand in hand

# Model Output



- Five-year forecast used in biennial budget
- Rates, DSCR
- Sources & uses of funds
  - Operating activities
  - Capital investment activities
- Reserves

# Assumptions/Metrics



<b>WATER SYSTEM FUND – KEY ASSUMPTIONS FIVE-YEAR FINANCIAL FORECAST</b> (\$ Millions)					
	<b>Forecast</b>				
	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>
Projected Sales Volume (mgd)	164.0	166.0	169.0	172.0	175.0
% Rate Increase	9.75%	9.50%	8.00%	7.00%	5.00%
Debt Service Coverage	1.62	1.67	1.65	1.79	1.79
Average Monthly Single Family Residential Bill (\$) Based on 10 ccf/month	\$44.41	\$48.60	\$52.49	\$56.16	\$58.97

# Sources & Uses—Operating



<b>WATER SYSTEM FUND – OPERATING BUDGET</b>					
<b>FIVE-YEAR FINANCIAL FORECAST</b>					
(\$ Millions)					
	Forecast				
	FY14	FY15	FY16	FY17	FY18
<b>Beginning Balance</b>	<b>240.2</b>	<b>244.8</b>	<b>249.3</b>	<b>254.6</b>	<b>260.4</b>
Water Charges	354.0	391.8	429.7	466.9	498.7
Seismic Surcharges	22.4	24.6	26.8	28.8	30.4
Property Taxes	23.4	23.8	24.3	24.8	25.3
Power Sales	5.7	5.7	5.7	5.7	5.7
Interest Income	2.3	4.0	7.0	6.4	7.3
SCC Revenue	23.7	23.3	24.6	25.9	27.3
Reimbursements	10.5	10.5	10.5	10.5	10.5
All Other Revenue	16.3	16.5	16.6	16.7	16.9
<b>Operating Revenues Total</b>	<b>458.3</b>	<b>500.2</b>	<b>545.2</b>	<b>585.7</b>	<b>622.1</b>
Operations & Maintenance Expenses	236.9	246.9	259.9	273.5	288.0
Debt Service	147.4	163.2	184.0	184.7	198.9
Revenue Funded Capital	69.4	85.6	96.0	121.7	128.8
<b>Expenses Total</b>	<b>453.7</b>	<b>495.7</b>	<b>539.9</b>	<b>579.9</b>	<b>615.7</b>
<b>Ending Balance</b>	<b>244.8</b>	<b>249.3</b>	<b>254.6</b>	<b>260.4</b>	<b>266.8</b>

# FY14—DSCR Calculation



	<b>FY 2014 Budget</b>
+ Operating Revenues	\$458 MM
- <u>Operating Expenditures</u>	<u>\$237 MM</u>
= Net Revenues	<b>\$221 MM</b>
- Senior Debt Service	<b>\$136 MM</b>
DSCR	1.62 x

$$\text{DSCR} = \frac{\text{Net Revenues}}{\text{Senior Debt Service}}$$

# Sources & Uses—Capital



<b>FIVE-YEAR FINANCIAL FORECAST</b>						
(\$ Millions)						
	<u>FY14</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>Totals</u>
<b>Beginning Balance</b>	18.4	94.0	0.1	85.8	2.0	-
<b>Resources:</b>						
Commercial Paper Issues	0	0	0	0	0	0
New Bond Issues	175.0	0	180.0	0	170.0	525.0
Grants and Loans Proceeds	0.9	0.9	0.5	0.3	0.3	2.9
Reimbursements	16.4	15.5	19.7	18.9	20.9	91.4
Transfer from Operating Revenue	<u>69.4</u>	<u>85.6</u>	<u>96.0</u>	<u>121.7</u>	<u>128.8</u>	<u>501.5</u>
<b>Total Resources</b>	<b>261.7</b>	<b>102.0</b>	<b>296.2</b>	<b>140.9</b>	<b>320.0</b>	<b>1,120.8</b>
<b>Expenditures:</b>						
Capital Improvements (discounted)	151.1	160.9	175.5	189.7	184.1	861.3
A & G Expenses	<u>35.0</u>	<u>35.0</u>	<u>35.0</u>	<u>35.0</u>	<u>35.0</u>	<u>175.0</u>
<b>Total Expenditures</b>	<b>186.1</b>	<b>195.9</b>	<b>210.5</b>	<b>224.7</b>	<b>219.1</b>	<b>1,036.3</b>
<b>Ending Balance</b>	<b>94.0</b>	<b>0.1</b>	<b>85.8</b>	<b>2.0</b>	<b>102.9</b>	<b>-</b>
<b>Debt Percentage of Funding</b>	<b>53.4%</b>	<b>47.9%</b>	<b>44.8%</b>	<b>37.3%</b>	<b>31.5%</b>	<b>42.5%</b>

# Reserves—Background



- Unrestricted District cash is pooled by system
- Policy 4.02 allocates unrestricted cash to reserves
  - Established in 1984 revised in 1994, 2000, 2004
- Remainder is reserve for capital projects

Reserve	Definition
Working Capital	3 month's O&M
Self Insurance	125% estimated claims
Workers Compensation	Estimated annual claims
Contingency & Rate Stabilization <ul style="list-style-type: none"><li>• Water</li><li>• Wastewater</li></ul>	20% volume revenues 5% O&M expense
Capital Projects	Remaining Amount

# Reserves—Five-Year Forecast



<b>WATER SYSTEM RESERVE COMPONENTS</b> (\$ Millions)					
<b>RESERVE COMPONENTS</b>	<b>Projected</b>				
	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>
<b>Projected Operating Budget Reserves</b>	244.8	249.3	254.6	260.4	266.8
Working capital	59.2	61.7	65.0	68.4	72.0
Self Insurance Reserve	5.0	5.0	5.2	5.3	5.5
Workers' Compensation Reserves	3.2	3.2	3.3	3.4	3.5
Contingency and Rate Stabilization	<u>51.0</u>	<u>56.4</u>	<u>62.1</u>	<u>67.7</u>	<u>72.3</u>
<b>Total of Reserves</b>	118.4	126.3	135.6	144.8	153.3
<b>Reserves Available for Capital Projects</b>	126.4	123.0	119.0	115.6	113.5

# Use of Reserves



- Reserves can be used in event of budget shortfall
- Use of reserves is a reduction in unrestricted cash; however
- Use of reserves does not help with DSCR calculation

# FY15—Drought Impacts to DSCR



	<b>Budget</b>	<b>Drought</b>	<b>Net</b>
+ Operating Revenues	\$500 MM	-\$30 MM	\$470 MM
- <u>Operating Expenditures</u>	<u>\$247 MM</u>	<u>\$23 MM</u>	<u>\$270 MM</u>
= Net Revenues	<b>\$253 MM</b>	<b>-\$53 MM</b>	<b>\$200 MM</b>
- Senior Debt Service	<b>\$152 MM</b>		<b>\$152 MM</b>
DSCR	1.67 x		1.32 x

- Drought assumes 10% drop in sales volume, and purchase of 65 taf of supplemental supplies—\$53 million variance
- DSCR drops from 1.67x to 1.32x

# FY15—Drought Impacts to DSCR w/ Supplemental Supply Charge



	Budget	Drought	Net
+ Operating Revenues	\$500 MM	-\$30 MM	\$470 MM
+ Supp. Supply Charge		\$23 MM	\$23 MM
- <u>Operating Expenditures</u>	<u>\$247 MM</u>	<u>\$23 MM</u>	<u>\$270 MM</u>
= Net Revenues	\$253 MM	-\$30 MM	\$223 MM
- Senior Debt Service	\$152 MM		\$152 MM
DSCR	1.67 x		1.47 x

- Drought assumes 10% drop in sales volume, purchase of 65 taf of supplemental supplies and supplemental supply charge—\$30 million variance
- DSCR drops from 1.67x to 1.47x

# Workshop 1 Recap



- Changing nature of District challenges
- Strategic plan goal update
  - Long-Term Financial Stability
- Revenue requirement (rates) driven by expenditure projections and financial policies
- Financial planning model dynamics

# Next Steps



<b>Workshop 1 <i>Introduction</i></b>	<b>Workshop 2 <i>Capital Plan (July)</i></b>	<b>Workshop 3 <i>Reserves (September)</i></b>	<b>Workshop 4 <i>Rates (November)</i></b>
<ul style="list-style-type: none"><li>• Strategic Plan Update</li><li>• Review Financial Planning Model</li><li>• How policies drive revenue requirements</li></ul>	<ul style="list-style-type: none"><li>• CIP Projections</li><li>• Review/evaluate capital investment policies</li><li>• CIP funding: debt vs. cash</li><li>• Debt Service Coverage Ratios</li></ul>	<ul style="list-style-type: none"><li>• Demand projections and variability</li><li>• Funding drought costs</li><li>• Fixed/variable revenues</li><li>• Review/evaluate reserve policies</li><li>• Seismic Improvement program</li></ul>	<ul style="list-style-type: none"><li>• Develop Financial Forecast based on Workshops 1-3</li><li>• Review preliminary results of Cost of Service study</li></ul>

# Questions

