

# Info Item 1: CIP & Capital Program, Capital Budget and Capital Finance Plan

Presented to the Environment Committee
August 23, 2011

Jason Willett, MCES Finance Director
Bill Moeller, Assistant General Manager, Interceptor Services



# Capital Budget/CIP Info

8/9/11: Proposed CIP, Capital

**Program & 2012 Capital** 

**Budget (Pickart)** 

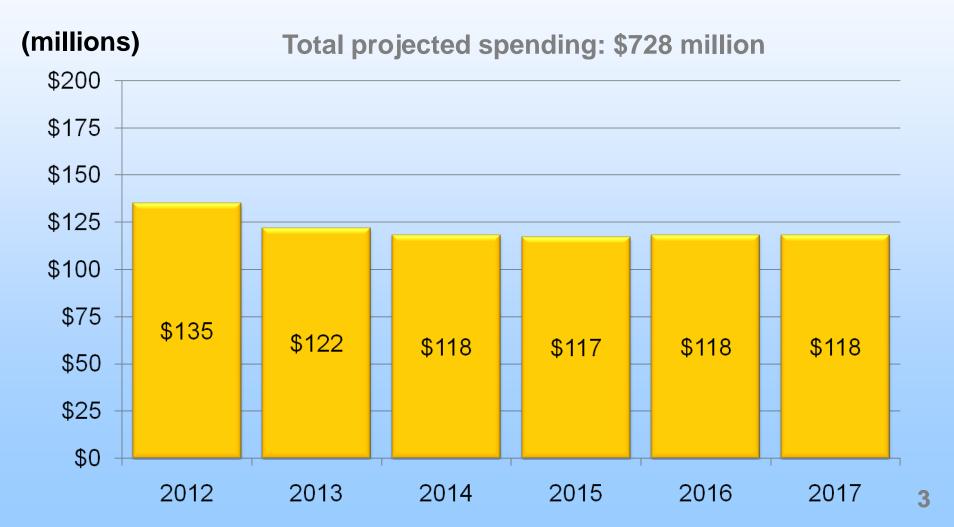
8/23/11: Capital Finance Plan (Willett)

8/23/11: Interceptor Program (Moeller)



# Capital Improvement Plan

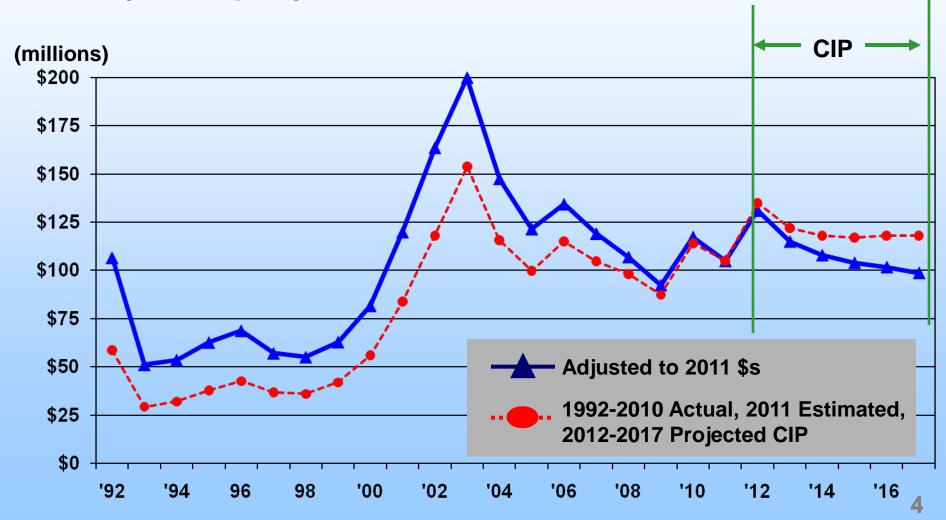
#### 2012-2017 Capital Spending





# **Capital Spending**

History and projections





# **CIP Comparison**

Average Annual Capital Spending:	\$M.	In 2011 dollars	
Next 6 years:	\$121	\$110	
Last 10 years:	\$111	\$131	
Last 40 years:	\$63	\$115	

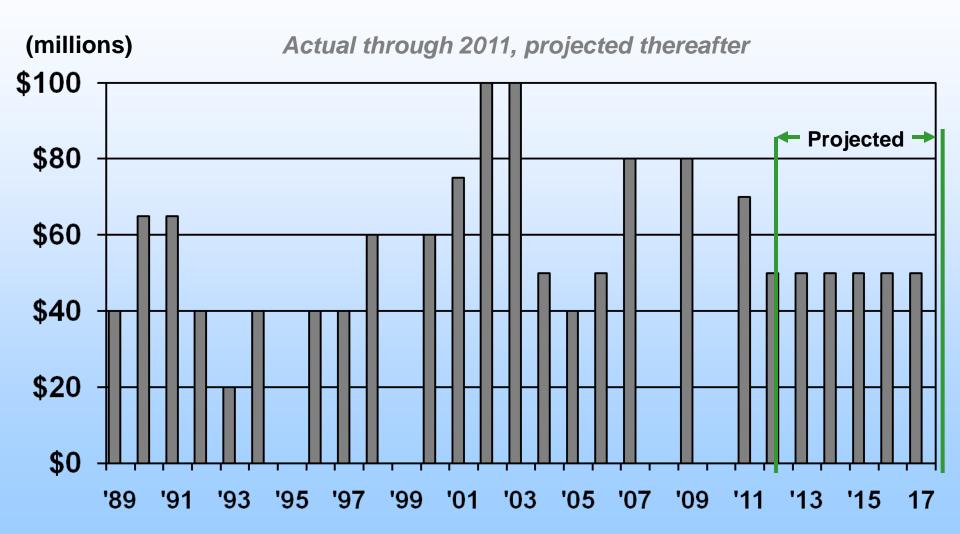


# **Capital Funding Sources**

- 1. PFA Loans
- 2. Pay-as-you-go
- 3. Grants
- 4. Local Financing—Cost Sharing
- 5. Council Bonds



# PFA Loans (Actual and Projected)





# PFA Clean Water State Revolving Fund Program

- 20 wastewater loan agreements 1989-2011 totaling \$1.17 billion
- Interest rates from 1.77% to 6.42%
- PFA normally offers below-market interest rates (150 basis points or 1.5% for \$50M borrowed)
- PFA and Council pay limited costs of issuance
- Council pledges its General Obligation (i.e. taxes if needed)



## **PFA Subsidy Impact**

#### Typical \$50 million loan:

(\$ millions)	Total Debt Service	Present Value*
4.0% Council bond	\$73.6	\$50.0
2.5% PFA loan	64.1	43.6
Interest savings to ratepayers	\$9.5	\$6.4
Bond underwriters discount		\$0.5
Cost of issuance saved		\$0.1
Total Present Value Savings		\$7.0

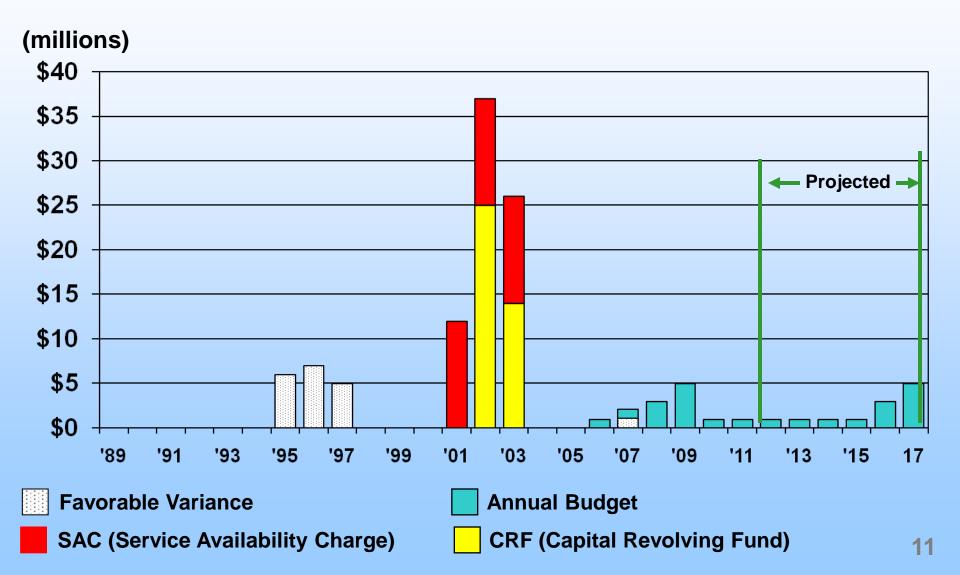


# **Recent PFA/MCES Activity**

- \$21M of current \$70M PFA loan dated remains unspent
  - Loan is expected to be depleted near end of this year
- In 2010, PFA refunded 5 bonds for present value savings of \$19.8 million
  - Part of bond proceeds was used for 5 MCES loans
  - MCES gets a portion of savings (\$5.5M present value)
  - PFA will pay savings to Council by crediting debt service payments:
    - \$2.4M in 2010
    - \$2.4M in 2011
    - \$0.9M in 2012



### Pay-As-You-Go





#### **Grants**

- PFA (ARRA): \$8.2 million in 2009
- PFA State Phosphorus: \$0.5 million in 2009-2010
- OES Local Govt. Energy Grant: \$.2M in 2011
- PFA Green Project Reserve: \$1 million
  - \$525,000 Metro non-condensing steam turbine generator project
  - \$450,000 Metro aeration tanks improvements project



# **Cost Sharing**

#### (\$ thousands)

Lakeville		Brooklyn Park	Elko New Market*	Plymouth	Maple Grove	Total
2010	\$173	\$123		\$462	\$78	\$836
2011		\$123	\$18			\$141
2012		<b>\$123</b>	\$18			\$141

<sup>\* \$239,000</sup> to be repaid over 20 years at 4.07% interest (\$17,695/year).



\$0

'89

'91

'93

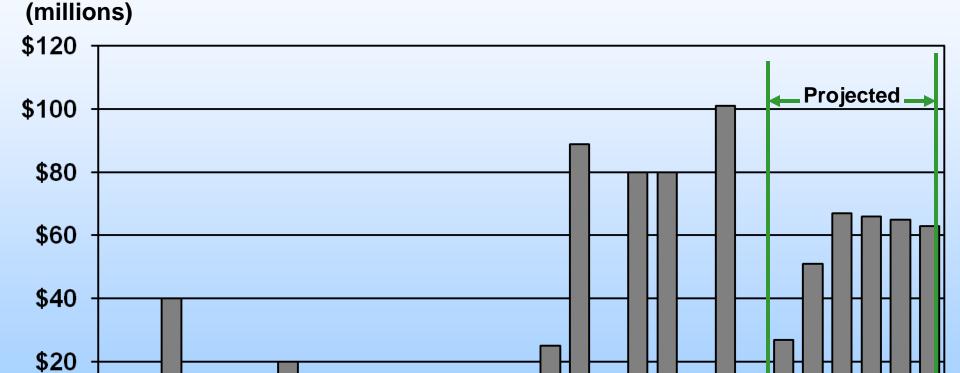
'95

'97

'99

'01

#### **Council Wastewater Bonds**



'03

'05

'09

'13



# Summary

- Debt Service and Debt Outstanding
- Comparative Data
- Staff Conclusions



#### **Pre-funded Debt Service**

- In prior years, some operating funds transferred to Debt Service Reserve Fund
- Balance of \$11.3 million at year-end 2010
- Fund not allowed to drop below 5% of annual debt service; currently \$4.9 million



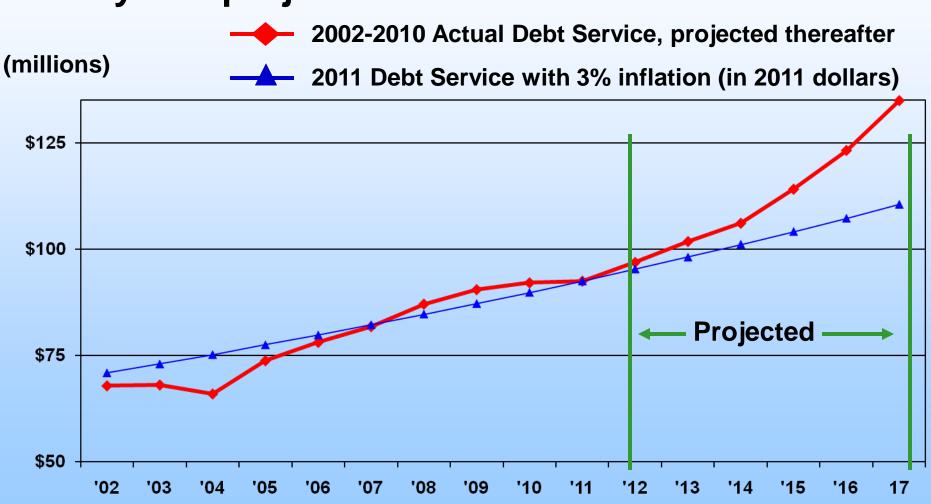
# **Debt Service Adjustments**

(\$ millions)	Debt Service	Pre-funded D.S.	Budgeted D.S.	Increase
2011	92.5	0	92.5	.4%
2012	97.4	(.5)	96.9	4.7%
2013	102.8	(1.0)	101.8	5.1%
2014	106.1	0	106.1	4.3%
2015	115.6	(1.5)	114.1	7.5%
2016	125.2	(2.0)	123.2	7.9%
2017	137.9	(3.0)	134.9	9.5%



# **Budgeted Debt Service**

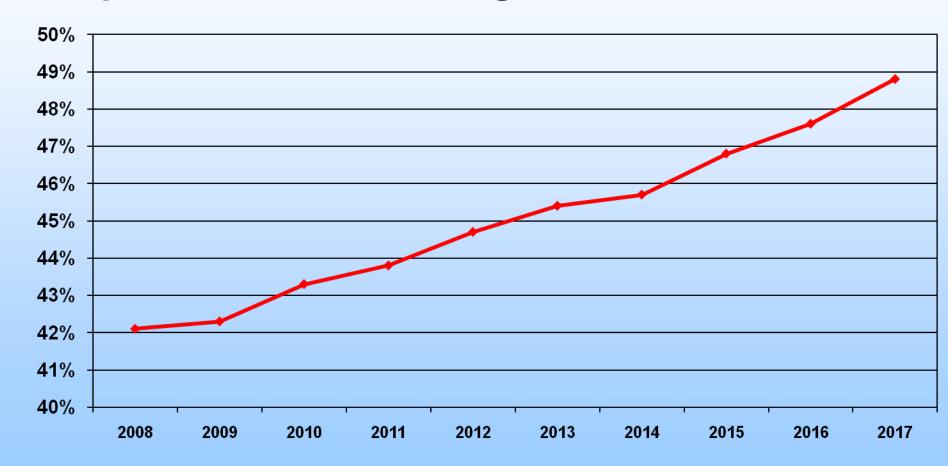
#### History and projections





### **Debt Service Projections**

#### As a percent of annual budget\*



\*Includes portion of debt service paid by SAC transfer; assumes O&M portion of budget increases 3% per year.



### **Peer Agencies**

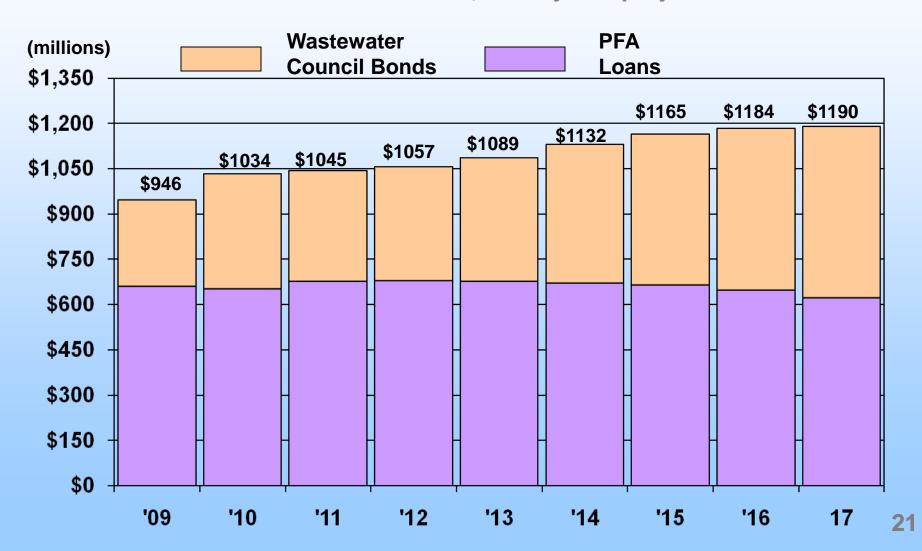
#### Debt Service as a % of budget\*

Washington, DC	19% <b>I</b>	Cincinnati	37% I	Milwaukee	54%
Rochester, NY	21%	Cleveland	40%	Trinity River TX	<b>55%</b>
Kansas City	25%	Phoenix	40%	Nashville	58%
Denver	26%	Honolulu	41%	King County WA	58%
Chicago	30%	Detroit	44%	Louisville KY	58%
Memphis	32% <sub> </sub>	MCES	44%	New York	61%
Philadelphia	33% I	Columbus	48% I	Miami	<b>70</b> %
Indianapolis	34%	Sacramento	<b>52</b> %		
San Diego	37%	Austin	53%		



# Outstanding Wastewater Debt

2009 and 2010 are actual; other years projected





### **Peer Agencies**

#### Debt per capita (person)\*

San Diego	<b>\$43</b>	Philadelphia	\$530	New York	\$1,287
Denver	\$79 I	Cleveland	\$543	Columbus	\$1,572
Memphis	\$139	Milwaukee	\$725	Seattle	\$1,593
Chicago	\$279	Miami	\$734	Honolulu	\$1,861
Kansas City	\$283	Detroit	\$738 <b> </b>	Louisville	\$1,872
MCES	\$343	Nashville	\$768 <b> </b>		
Phoenix	\$354 I	Cincinnati	\$789 <b>I</b>		
Dallas/Ft Worth	\$415	Austin	\$1,085		
Washington, DC	\$480	Sacramento	\$1,154		



#### Conclusions

- Financing load is reasonable
- Next financings projected:
  - \$50-\$70M PFA loan late 2011 or early 2012
  - \$25-\$50M Council bonds mid 2012
- PFA subsidies are important
- Continued financing needs mean Council's "Aaa" bond rating and G.O. backing also very important

# MCES Inspection & Rehabilitation Program

Bill Moeller, Assistant General Manager, Interceptor Services



## **Inspection Program Purpose**

- Identify and track system deficiencies to initiate rehabilitation
- Identify Inflow and Infiltration (I&I)
- Support Capital Improvements Program
- Document proper O & M activities



# **Program Elements**

- Closed Circuit Televising (CCTV)
  - In house crew
  - Contracted
- Physical Inspection
  - Above ground
  - In pipe
- Specialty Methods
  - Sonar
  - Thermographic



# Interceptor System Components

- 474 miles of gravity sewer
- 195 flow meter stations
- 116 miles of forcemain
- 62 lift stations
- 22 miles of siphon sewer
- 10 combined sewer overflow regulators



# **Priority and Frequency**

#### Priority setting

- Pipe Material and Age
- Consequence of failure
- Known deficiencies
- Last inspection
- Inflow / Infiltration potential

#### Frequency

- 10-15 years normal
- 20-25 years deep tunnels
- 1-5 years for known deficiencies



# **Program Performance**

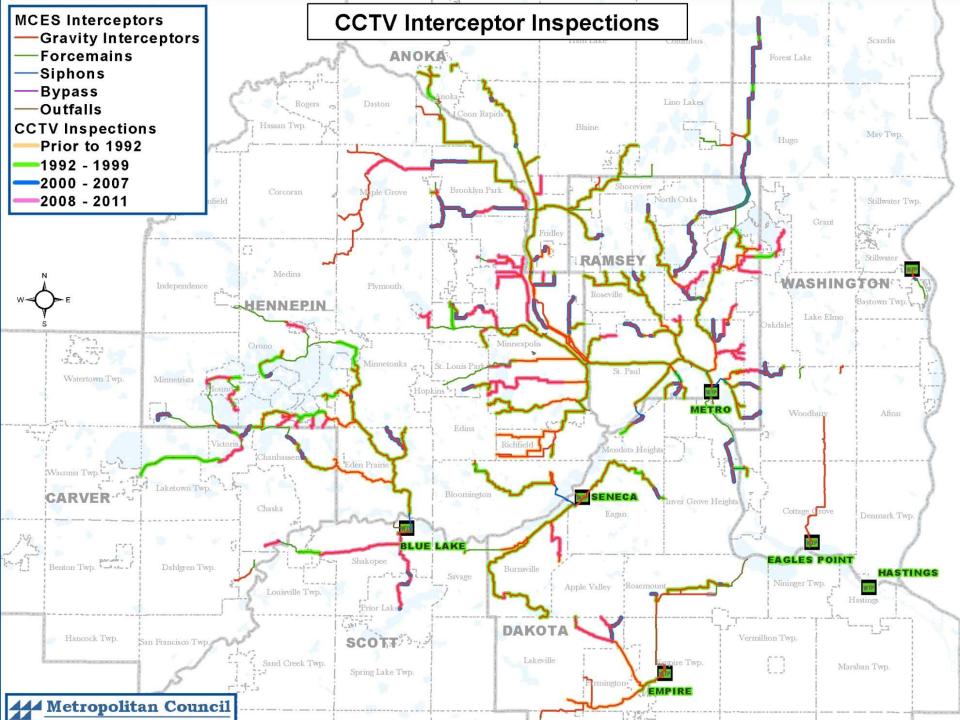
2008-2010: 40-50 miles inspected

2004-2010: Inspections performed in

30+ communities with I&I

surcharge

30+ Capital projects generated





# **Rehabilitation Projects**

- Hopkins Forcemain
- South St. Paul Forcemain
- Plymouth Forcemain
- Trenchless Rehabilitation
  - Golden Valley
  - Maplewood
  - Woodbury
  - Inver Grove Heights
  - Newport/St. Paul Park
  - Chanhassen
  - New Brighton



# Rehabilitation Projects, cont.

#### Minneapolis rehab

- MN-303
- MN-311
- MN-312
- MN-314
- MN-314
- MN-330
- MN-341
- MN-342
- MN-343
- MN-310 Tunnel
- MN-320 Tunnel
- MN-344 Tunnel

























# **Next Steps**

August: Committee information &

discussion

Sept-Oct: Council approves preliminary

unified capital budget, capital

program and CIP (including

Capital Financing Plan)

November: Public hearing

December: Council adoption