#### Memo

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To: Mayor and City Council Members

From: John Dunn

Date: March 6, 2015

Subject: March 10, 2015 Presentation on Water and Sewer Rates

Thank you for the opportunity to present the staff recommendation of revenues necessary to support the planned operating and capital budgets for the Water and Sewer Funds. The *Ames Municipal Code* requires that the Director of Water and Pollution Control "…review and recommend to the city council revisions of the rates and charges established…at intervals appropriate to provide for the funding needs of the utility."

As you know, both utilities are facing significant expenses in the coming years. The proposed projects are a combination of the need to provide capacity for our growing community, the need to respond to new and anticipated regulatory requirements, and the need to re-invest in the infrastructure of these two utilities that are so essential to our way of life.

To help you prepare for the discussion, I have attached a copy of the presentation. You will see that the discussion will include recommended adjustments to both the Water and Sewer Funds effective July 1, 2015, and a request for direction on a future increase in the operating reserve balance. I look forward to meeting with you to discuss the exciting future of the water and sewer utilities as we seek to meet the needs and expectations of our community.

Water and Pollution Control Department March 10, 2015

## FY 15/16 WATER AND SEWER RATES



## **Agenda**

- ☐ National and State-wide Trends in Rates
- ☐ Projected Need for Revenue Increases in Ames
- ☐ Translating Revenue Increases to Rate Increases
- ☐ Fund Reserve Balances
- □ Customer Perspective
- □ Council Direction





## **Sources of Information**

- □ 2015 NACWA Financial Survey − National Association of Clean Water Agencies
- 2013 Water and Wastewater Interim Rate Survey American Water Works Association
- 2015 Water Rates and Sewer Service Charges Survey City of Ames, Iowa



### **National Trends**

#### **2015 NACWA Financial Survey – Key Findings**

- ☐ Projected capital needs increased 10% compared to 2011
- ☐ Rate increases slowed in past three years, but continue to outpace inflation by more than double
- ☐ Most utilities (90%) adjust rates annually or biennially
- □ Consent Decrees account for approximately 10% of <u>all</u> wastewater expenditures
  - More than half of all consent decrees nationally are due to nutrients



### **National Trends**

#### 2013 Interim Water and Wastewater Rate Survey - American Water Works Association

#### □194 <u>drinking water utilities</u> responded to the survey

- -166 (86%) have increased water rates in the past two years
- -40 (21%) had increases of greater than 20%

#### □133 <u>wastewater utilities</u> responded to the survey

- -118 (89%) have increased sewer rates in the past two years
- -32 (24%) had increases of greater than 20%



## **National Trends in Rates**

#### 2006 to 2012

Average Annual Increase in Water Rates: 8.0%

Average Annual Increase in Sewer Rates: 9.0%

Average Annual Increase in CPI: 2.2%



## **Recent Rate Adjustments in Ames**

	Water	Sewer
FY 08/09		8%
FY 09/10	10%	
FY 10/11	10%	9%
FY 11/12	8%	10%
FY 12/13	4.2%	10%
FY 13/14	6%	9%
FY 14/15		8%



## **National Trends in Rates**

#### 2006 to 2012

Average Annual Increase in Water Rates: 8.0%
Ames Average Annual Increase: 6.7%

Average Annual Increase in Sewer Rates: 9.0%
Ames Average Annual Increase: 7.7%



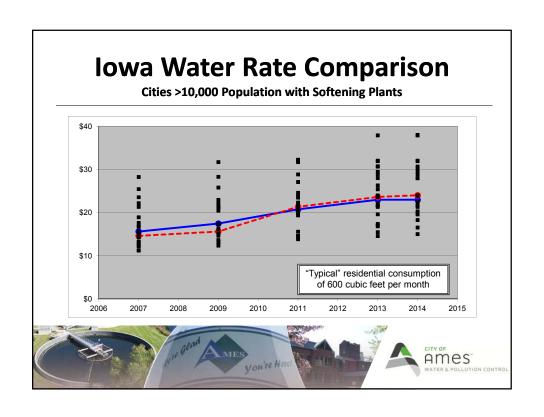
## **Iowa Trends in Rates**

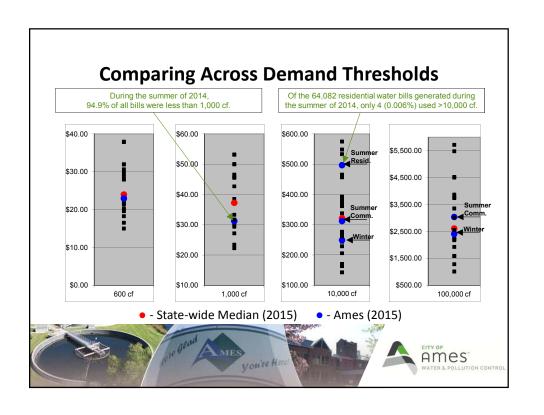
#### 2007 to 2014

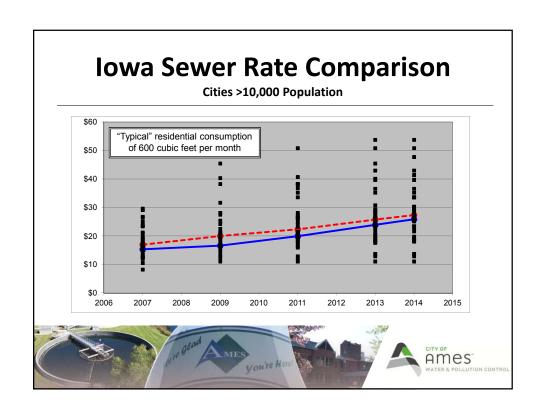
Median Annual Increase in Water Rates: 9.2%
Ames Average Annual Increase: 6.7%

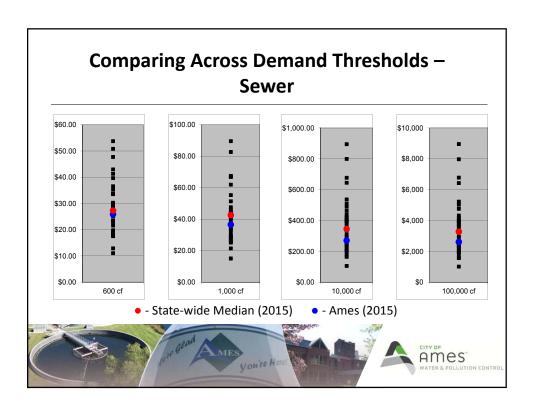
Median Annual Increase in Sewer Rates: 8.7%
Ames Average Annual Increase: 9.8%

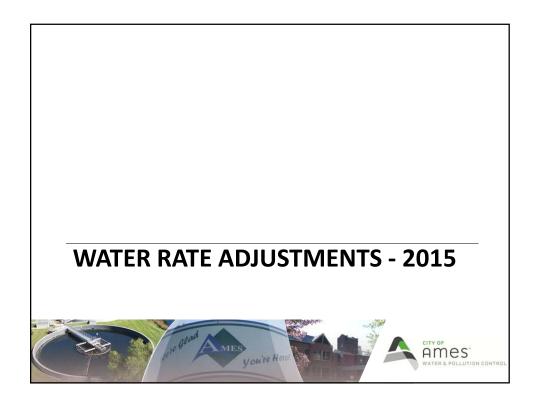


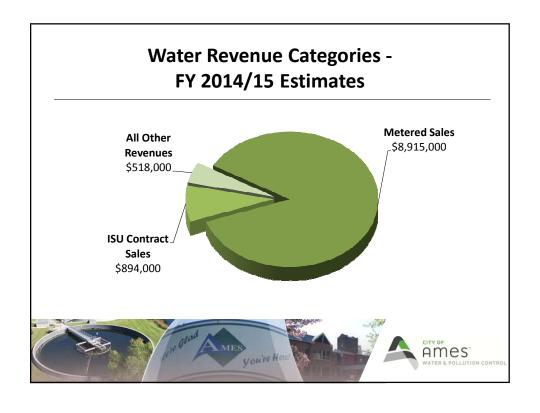


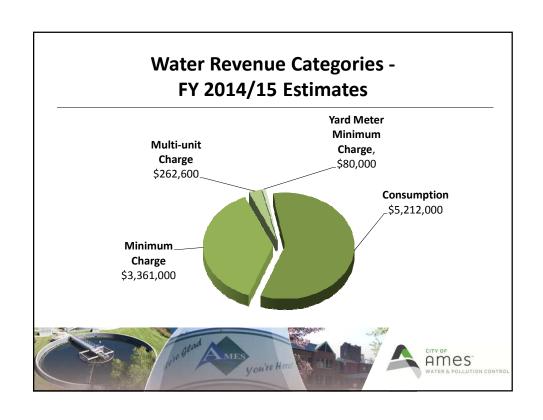




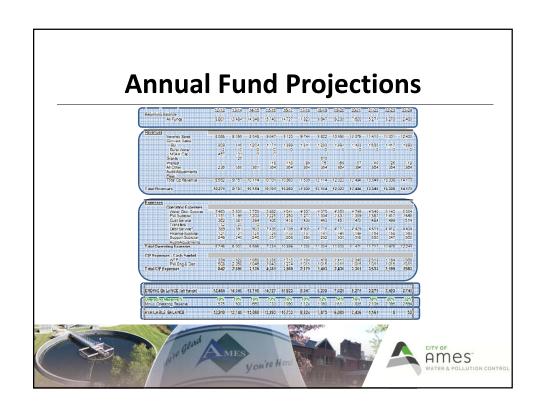


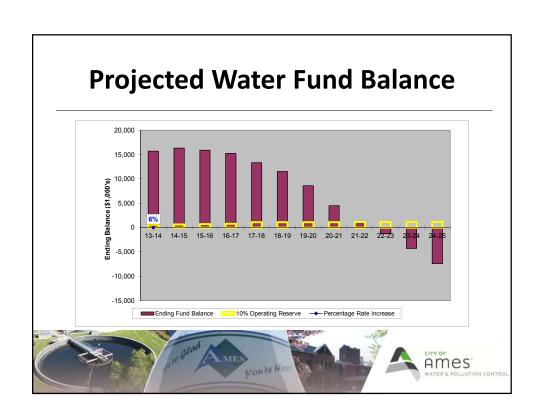






	Charge per
Winter	cubic foot
(All customers, all consumption)	\$0.0207
Summer	
Residential	
Block 1 (First 1,000 cf)	0.0207
Block 2 (Next 1,500 cf)	0.0365
Block 3 (Over 2,500 cf)	0.0548
Irrigation and Yard Water	
Block 1 (First 2,000 cf)	0.0298
Block 2 (Next 3,000 cf)	0.0548
Block 3 (Over 5,000 cf)	0.0913
Non-Residential	0.0270
All Consumption	0.0270
Non-peaking Industrial	
All Consumption	0.0207





### **Previous Council Guidance on Rates**

- □ Rate increases should be done with smaller percentage increases on a more frequent basis, as opposed to larger increases on a less frequent basis.
- ☐ Maintain a 10% operating reserve (Approximately five weeks of expenses)



## **Operating Reserve**

- □ For FY 14/15:
  - \$649,000 in Water Fund
  - \$534,000 in Sewer Fund
- □ Is this an adequate reserve?



## **Purpose of an Operating Reserve**

"To mitigate against current and future risks (e.g. revenue shortfalls and unanticipated expenses) and to ensure stable services and fees."

Government Finance Officers Association (GFOA) Best Practices



#### **GFOA Best Practices**

"...Under no circumstances should the target for working capital be less than 45 days worth of annual operating [and depreciation] expenses and other working capital needs."

Government Finance Officers Association (GFOA) Best Practices



## **Considerations**

- □ Support from general government
- □ Cash Cycles / variations in cash position
- □ Customer Concentration
- □ Control over rates
- □ Debt position
- □ Control over expenses / fixed versus variable



## **Risk of Unanticipated Expenses**

- □ Emergency Basin Liner Repairs (2013) \$550,000
- □ Failure of Standby Generator \$750,000
- □ Failure of Sanitary Sewer under I-35 \$750,000
- Water Main Failure under Squaw Creek \$785,000
- □ Arc Flash Explosion in Switchgear \$1,300,000
- □ Catastrophic Failure of Trickling Filter Media \$1,600,000 per filter



## **Operating Reserve Benchmarks**

Ames	10% of Annual Operating Budget
Ankeny	50% of Annual Operating Budget
Boone	25% of Annual Revenue
Council Bluffs	50% of Annual Operating Budget
Iowa City	30% of Annual Operating Expenses and Transfers plus Depreciation
Johnston	40% of Annual Operating Budget
Newton	25% of annual operating budget
Urbandale	25% of Annual Operating Budget
West Des Moines Water Works	25% of Annual O&M budget (currently \$2.55MM)



## Proposed Revision to Operating Reserve Guidelines

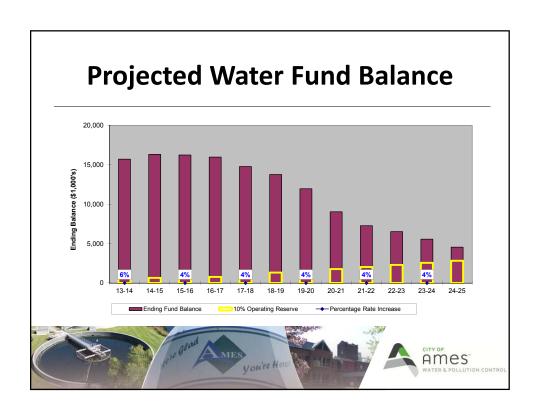
- □ Stay with 10% of Annual Operating Expenses through FY 17/18
- □ Begin in FY 18/19 increasing by 2% per year until at 25% of Annual Operating Expenses inclusive of debt service



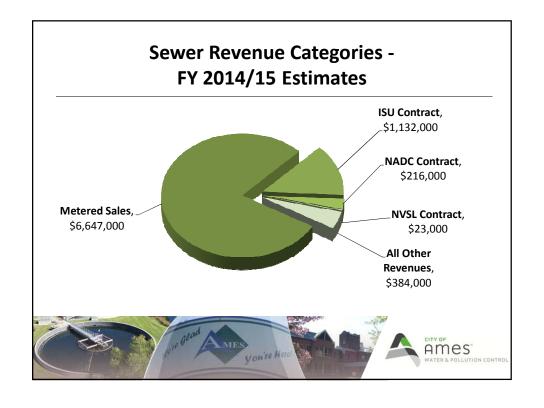
## **Comparative Impact on Water Rates**

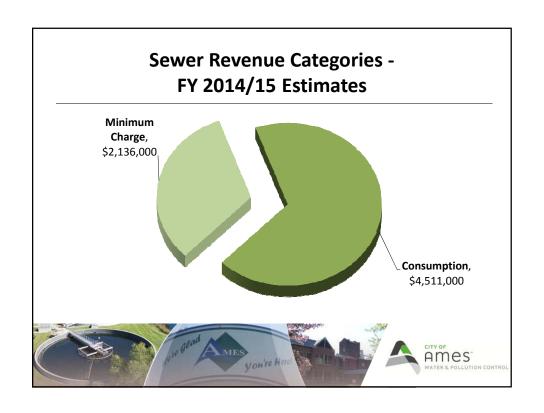
Year	15- 16	16- 17	17- 18	18- 19	19- 20	20- 21	21- 22	22- 23	23- 24	24- 25
10% Reserve	4%		4%		2%		3%		3%	
25% Reserve	4%		4%		4%		4%		4%	







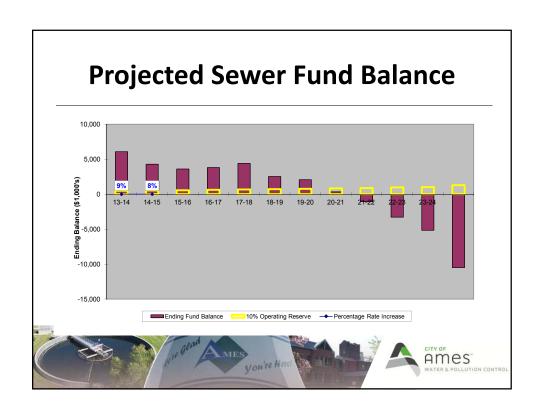


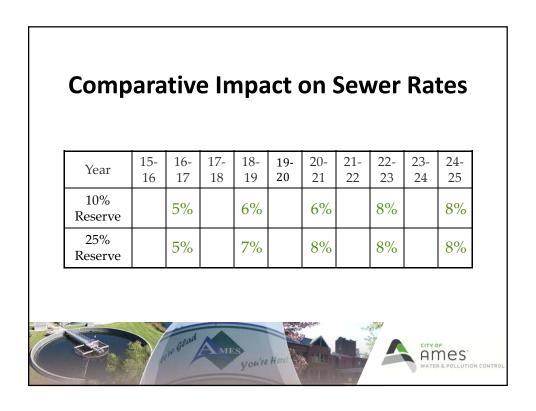


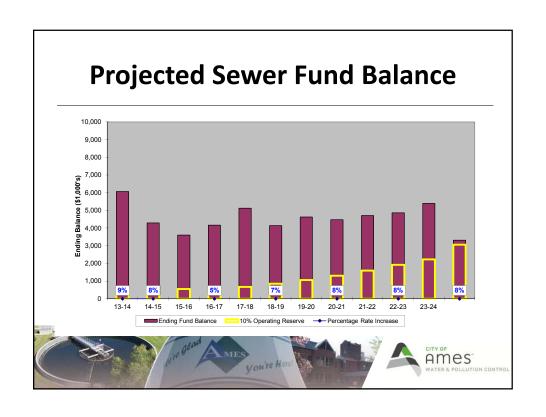
## **Current Rates - Sewer**

- ☐ Minimum Bill:
  - \$10.20 per month per customer account
- □ Consumption: \$0.0261 per cubic foot











# Combined Pattern of Rate Adjustments

Year	15- 16	16- 17	17- 18	18- 19	19- 20	20- 21	21- 22	22- 23	23- 24	24- 25
Water	4%		4%		4%		4%		4%	
Sewer		5%		7%		8%		8%		8%



# Combined Pattern of Rate Adjustments

Year	15-16	16-17	17-18	18-19
Water	4%			⇒4%
Sewer	5% 🗲			7%
Electric		5% ECA	4% Rates	



## Sample Customer Bill – Median Residential

	Electric	Storm	Water		
Electric / Water Use	Summer	Water	Summer	Sewer	Total
600 kWh and 600 cf	\$75.86	\$3.45	\$22.98	\$25.86	\$130.25
07/01/15 Rate Change	\$0.00	\$0.00	\$0.92	\$1.29	\$2.21
Totals	\$75.86	\$3.45	\$23.90	\$27.15	\$132.36
% Impact on Total Bill					1.62%



### Sample Customer Bill – Non-residential

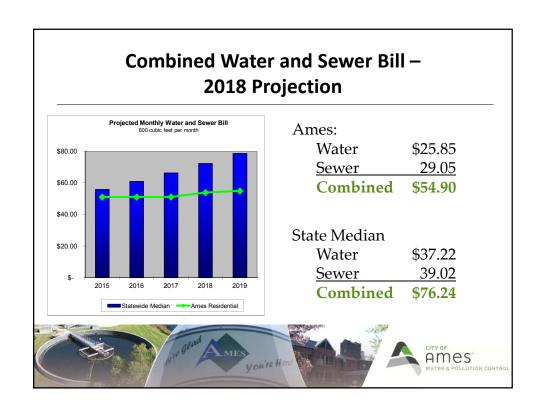
Small Commercial (GP)

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
10,000 kWh and 3,000 cf	\$1,128.00	\$6.90	\$102.12	\$88.50	\$1,325.52
07/01/15 Rate Change Totals	\$0.00 \$1,128.00	\$0.00 \$6.90	\$4.08 \$106.20	\$4.43 \$92.93	\$8.51 \$1,334.03
% Impact on Total Bill					0.64%

Commercial (LP)

Electric	Storm	vvater		
Summer	Water	Summer	Sewer	Total
\$9,537.73	\$10.35	\$624.48	\$532.20	\$10,704.76
\$0.00	\$0.00	\$24.98	\$26.61	\$51.59
\$9,537.73	\$10.35	\$649.46	\$558.81	\$10,756.35
				0.48%
	\$9,537.73 \$0.00	Summer         Water           \$9,537.73         \$10.35           \$0.00         \$0.00	Summer         Water         Summer           \$9,537.73         \$10.35         \$624.48           \$0.00         \$0.00         \$24.98	Summer         Water         Summer         Sewer           \$9,537.73         \$10.35         \$624.48         \$532.20           \$0.00         \$0.00         \$24.98         \$26.61







## **Recommended Rate Adjustments**

4% Across-the-board increase in Water

5% Across-the-board increase in Sewer

Effective for bills mailed on or after July 1, 2015



## **Operating Reserve Guidance**

Remain at 10% of Operating Expenses through FY 17/18

Begin increasing at 2% per year beginning in FY 18/19 until reaching 25%



## **Timeline**

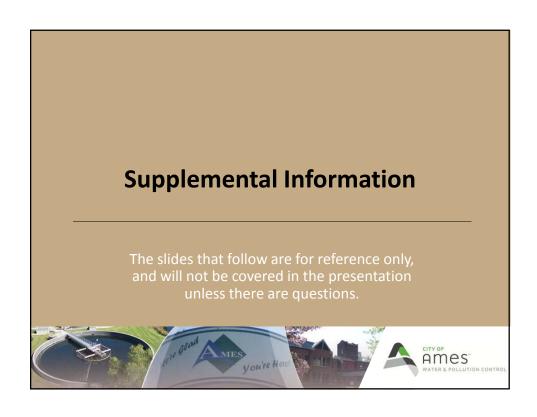
- □ First Reading April 14
  Second Reading April 28
  Third Reading & Adoption May 12
- □ Effective for Meter Reads beginning in June 2015
- ☐ Appears on Utility Bills Mailed on and after July 1, 2015



Water and Pollution Control Department March 10, 2015

## FY 15/16 WATER AND SEWER RATES





<u>S</u>	Size of Meter	Monthly Charge
	5/8" or 5/8" x 3/4"	10.56
	3/4"	21.12
	1"	42.24
	1-1/2"	84.48
	2"	168.96
	2", battery of 2	327.26
	2", battery of 3	485.63
	3"	337.84
	4"	570.08
	6"	950.13
	8"	1,900.26
	10"	2,850.39

## Current Water Rates – Multi-unit Charges, \$

**Multiple dwellings** – Multiple dwellings (such as in a mobile home park) may be services from a single water meter. However, there is a surcharge added to the minimum bill charge.

5/8" meter serving 2 or more dwelling units

3.04/month/unit
3/4" meter serving 4 or more dwelling units

3.04/month/unit
1" meter serving 8 or more dwelling units

3.04/month/unit
1-1/2" meter serving 16 or more dwelling units

3.04/month/unit
2" meter serving 30 or more dwelling units

90.96/month

for the first 30 units plus \$4.72/month per unit for each additional unit in excess of 30 units

3" or larger meter serving any number of dwelling units 4.18/month/unit



## Current Water Rates – Yard Meter Minimum Charge, \$/mo.

Size of Meter	Monthly Charge
5/8" or 5/8" x 3/4"	4.00
3/4"	6.21
1"	8.65
1-1/2"	11.93
2"	15.86
3"	20.63
4"	25.65
6"	30.72
8"	35.79
10"	40.48

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