

City of Mesa FY 2018/19

Utility Rate Recommendations Audit, Finance and Enterprise Committee March 22, 2018

Presented by

Brian A. Ritschel – Deputy Budget Director

Scott Bouchie – Environmental Management and Sustainability Director

Frank McRae – Energy Resources Director

Jake West– Water Resources Director

Enterprise Operations

Each utility is operated as a separate business center

Combined Ending Reserve Balance adheres to the adopted financial policy of at least 8-10% over the forecast period

Reserve balance can be used to smooth rate adjustments year-to-year

Reserve balance can be used to phase in new programs or changes in operations





Total Enterprise Fund

		FY 17/18						
	FY 16/17	Year End	FY 18/19	FY 19/20	FY 20/21**	FY 21/22	FY 22/23	FY 23/24
Sources of Funding	Actuals	Estimate	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Revenues	\$329.7	\$342.9	\$357.7	\$373.1	\$379.5	\$391.2	\$408.8	\$425.5
EECAF/PNGCAF Revenues	\$24.7	\$25.5	\$25.0	\$25.2	\$25.1	\$25.3	\$26.4	\$27.1
Total Sources	\$354.5	\$368.4	\$382.7	\$398.3	\$404.6	\$416.5	\$435.2	\$452.6
Uses of Funding								
Operating Expenditures	\$127.1	\$137.3	\$143.0	\$150.8	\$155.8	\$160.5	\$165.1	\$168.6
EECAF/PNGCAF Expenditures	\$24.8	\$25.7	\$25.0	\$25.2	\$25.1	\$25.3	\$26.4	\$27.1
Expenditure Subtotal	\$151.9	\$163.1	\$168.1	\$176.0	\$180.9	\$185.8	\$191.5	\$195.7
Project Costs	\$0.7	\$0.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
General Fund Transfer	\$103.9	\$106.5	\$108.4	\$110.9	\$114.0	\$117.0	\$120.1	\$123.3
Debt Service Transfer	\$54.4	\$77.0	\$84.5	\$89.3	\$97.8	\$107.4	\$112.5	\$115.2
Lifecycle/ Infrastructure Transfers	\$6.8	\$7.2	\$7.5	\$7.8	\$8.0	\$8.2	\$8.6	\$8.9
Capital Transfer	\$4.7	\$4.0	\$3.4	\$3.5	\$3.8	\$3.2	\$3.2	\$3.3
Economic Investment Fund Transfer	\$5.5	\$5.2	\$8.9	\$9.3	\$9.4	\$9.1	\$9.4	\$9.2
Total Uses	\$328.0	\$363.7	\$380.8	\$396.7	\$413.9	\$430.7	\$445.2	\$455.5
Net Sources and Uses	\$26.5	\$4.7	\$2.0	\$1.6	(\$9.2)	(\$14.2)	(\$10.0)	(\$2.9)
Beginning Reserve Balance	\$66.2	\$92.7	\$97.5	\$99.4	\$101.0	\$91.8	\$77.6	\$67.6
Ending Reserve Balance	\$92.7	\$97.5	\$99.4	\$101.0	\$91.8	\$77.6	\$67.6	\$64.7
Ending Reserve Balance Percent* *As a % of Next Fiscal Year's Expenditures	25.2%	25.6%	25.1%	24.4%	21.3%	17.4%	14.8%	13.7%

^{**}This forecast includes an economic correction starting in FY 20/21

Util	it	у С)p	era	at	ine	5	Εχρ	e	ndi	itui	e	S		
											Per (Cent	Change		
	F'	Y14/15	F	Y15/16	F	Y16/17	F	Y17/18	F'	Y18/19	FY14/	15 to	FY15/16 to	FY16/17 to	FY17/18 to
	A	ctuals	A	ctuals	Α	ctuals	Pr	ojected	For	ecasted	FY1	5/16	FY16/17	FY17/18	FY18/19
Electric	\$	6.7	\$	6.8	\$	6.7	\$	6.7	\$	7.6	1.5	5%	-1.5%	0.0%	13.4%
Gas		12.1		11.9		13.0		13.1		14.1	-1.	7%	9.2%	0.8%	7.6%

34/-1	20.0	27.0	40.0	40.2	F0 0
Water	38.0	37.9	40.8	48.3	50.0

Wastewater	21.0	21.3	23.1	24.0	25.8

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Total \$ 109.8 \$ 110.4 \$ 116.6 \$ 126.5 \$ 132.	Total	\$	109.8	\$	110.4	\$	116.6	\$	126.5	\$	132.
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FY14/15 to	FY15/16 to	FY16/17 to	FY17/18 to
FY15/16	FY16/17	FY17/18	FY18/19
1.5%	-1.5%	0.0%	13.4%
-1.7%	9.2%	0.8%	7.6%
-0.3%	7.7%	18.4%	3.5%
1.4%	8.5%	3.9%	7.5%
1.6%	1.5%	4.2%	1.7%
0.5%	5.6%	8.5%	4.7%

Dollars in millions





Utility Operating Expenditure Pressures

- Increase in on-going operation and maintenance costs (1 new plant and 1 plant expansion)
- Customer growth greater than anticipated
- Water purchase costs increasing (\$1.2M)
- Chemical costs increasing due to quality of water (\$456K)

Proposed Rate Adjustments

			Pric	or Year		
	FY 2	017/18	FY 2	018/19	FY 2	018/19
	Ad	opted	Pro	jection	Pro	posal
Electric	\$	1.25	\$	1.75	\$	1.75
Gas	\$	0.75	\$	0.75	\$	0.75
Water		3.5%		3.5%		3.5%
Wastewater		4.0%		4.0%		4.0%
Solid Waste *		3.5%		3.5%		3.5%







^{*} Residential



Rate Adjustment Implementation

 Methods of implementation of rate adjustments can vary from year to year based on needs and goals of the individual utilities

 Impact on individual customers can vary based on the method of implementation and the customer consumption of services

Revenue Impact

Forecasted expenses are compared with forecasted revenues based on current rates and projected customer growth

In FY 2018/19, the following increase in revenues is needed to accommodate the estimated costs

Utility	Revenue
Electric	\$252,000
Natural Gas	\$474,000
Solid Waste	\$1,555,000
Wastewater	\$2,680,000
Water	\$3,965,000





Average Residential Customer Impact

<u>Utility</u>	Monthly	Annual
Electric	\$1.25	\$15.00
Natural Gas	\$0.75	\$9.00
Solid Waste	\$1.01	\$12.12
Wastewater	\$1.15	\$13.80
Water	\$1.62	\$19.44



Environmental Management & Sustainability Department

Solid Waste Services

Res	idential Se	rvices	Con	nmercial S	ervices
	Number of Customers	Rate		Number of Customers	Rate
Black (trash) barrel	135,183	\$28.76/ month for 90 gal 1xwk	Front Load bin service	2,406	Varies with size & quantity of
		\$25.68/ month for 60 gal 1xwk			bin and frequency of service
Blue (recycle) barrel	131,650	Included with trash service	Rolloff boxes	1,450	Varies with size of rolloff box
Green (yard waste) barrel	41,316	\$6.79/ month for 90 gal 1xwk			





Solid Waste Utility Rate Recommendations

- 3.5% increase on all residential rates
 - Residential 90 gallon barrel rate: from \$28.76 to \$29.77
 - > Residential 60 gallon barrel rate: from \$25.68 to \$26.58
 - > Additional black barrel rate: from \$13.58 to \$14.06
 - Residential green barrel service: from \$6.79 to \$7.03

Solid Waste Utility Rate Recommendations

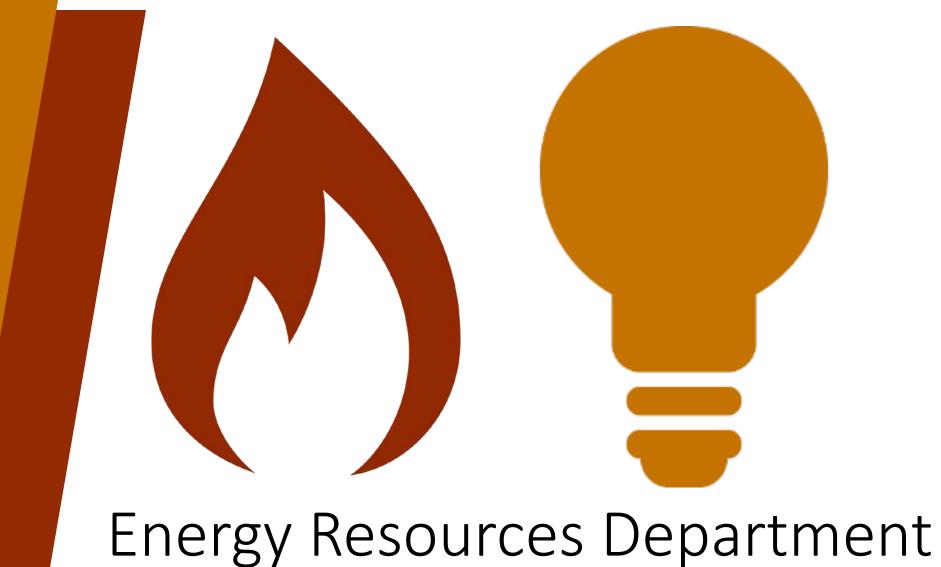
- Mesa Green and Clean Fee: no adjustment recommended
- Average residential customer: \$29.60 to \$30.61
- 3.5% increase on bulk item and appliance collection for City of Mesa refuse customers
- Commercial Front Load Rates:
 - Trash: Overall 2.0% increase
 - Commingled: Increase Base Rate from \$28.00 to \$36.00 while providing a 15% discount for additional bins
 - Cardboard: Increase Base Rate from \$24.00 to \$28.00 while slightly increasing the Multi-Day and Multi-Bin factors
- Commercial Roll Off Rates:
 - Trash: no adjustment recommended
 - Green Waste: increase per ton charge 6.9%
 - Overweight Containers: increase per ton charge 4.5%











Electric & Gas Utilities

- Electric Utility
 - Residential: 14,265 customer billed in February 2018
 - Non-Residential: 2,585 customer billed in February 2018

- Gas Utility
 - Residential: 59,949 customer billed in February 2018
 - Non-Residential: 2,496 customer billed in February 2018





Electric Utility Rate Recommendations



- Residential System Service Charge component: from \$10.75 to \$12.50
- Consumption component of rate: No adjustment recommended



- Average residential customer: from \$93.41 to \$95.16, 1.9% (Including commodity pass-through cost)
- Non-residential rates: No adjustment recommended



Electric Utility Rate Recommendations

- Proposed System Service Charge of \$12.50 is:
 - \$7.50 per month less than SRP's monthly service charge of \$20.00
- Monthly bills during calendar year 2017 (at FY 2018/19 Mesa rates) would be approximately \$12.80 less per month than if served by SRP (\$153.60 less per year)
- Commodity costs for power are passed through to the customers and are not included in the annual rate review



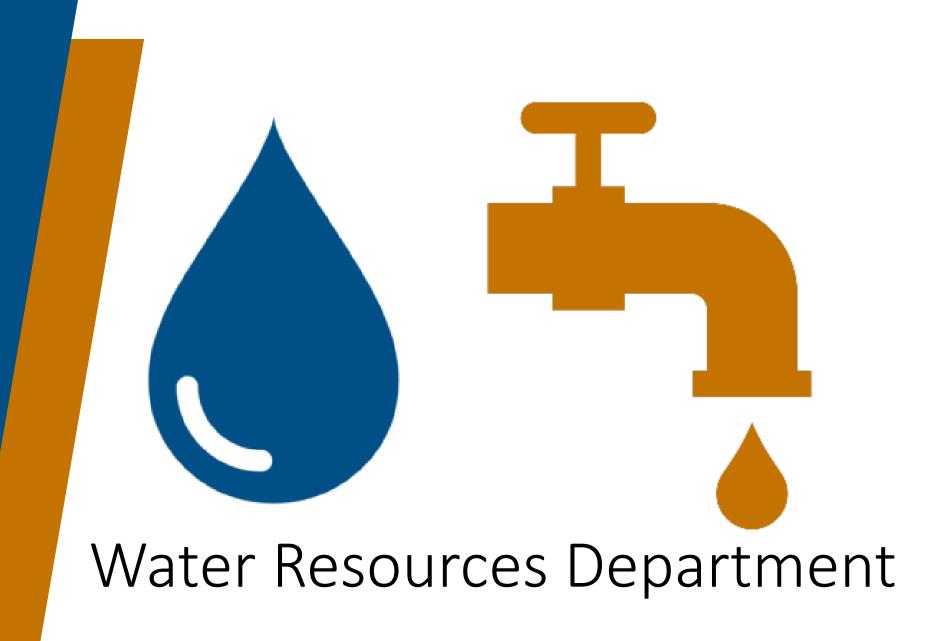




Natural Gas Utility Rate Recommendations

- All customers System Service Charge: increase \$0.75 per month
 - Residential customers summer: from \$13.86 to \$14.61 per month
 - Residential customers winter: from \$16.79 to \$17.54 per month
- Average residential monthly bill: from \$32.92 to \$33.67, 2.3% (Including commodity pass-through)
- Monthly bills during calendar year 2017 (at FY 2018/19 Mesa rates) were approximately \$1.88 more per month (\$22.56 more per year) than if served by Southwest Gas.
- Commodity costs for natural gas are passed through to the customers and are not included in the annual rate review



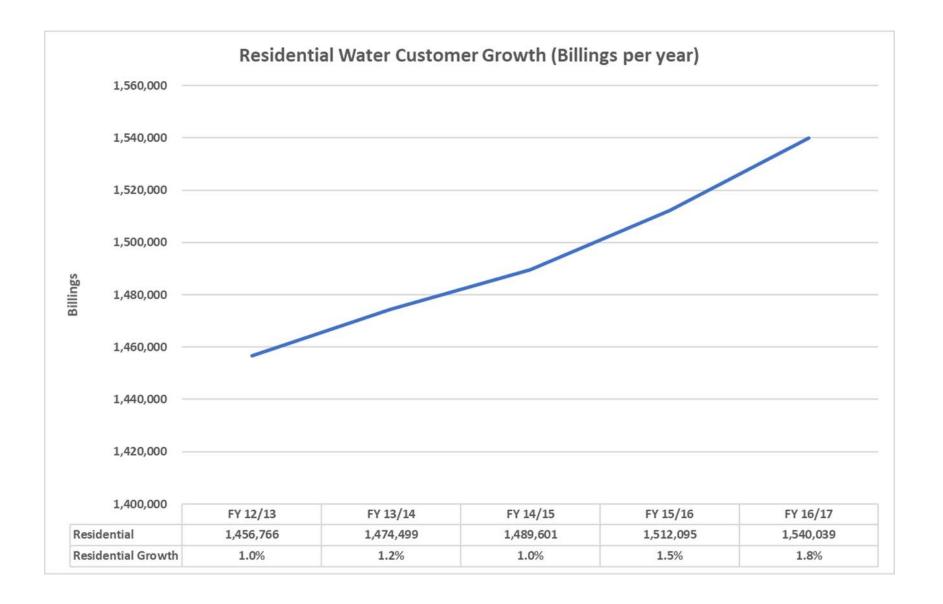




Water Utility Rate Structure

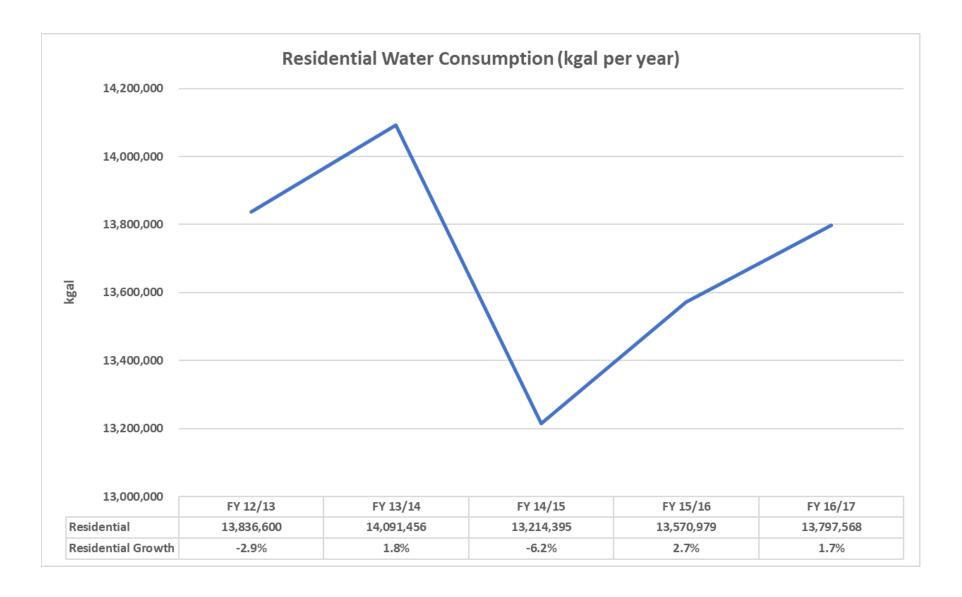
- Over the last few years the City has focused on better aligning fixed revenues with fixed costs. Target is fixed revenues at 35-40% of total costs. FY 2017/18 is estimated at 36.09%
- Water consumption per account has declined in recent years: more widespread use of water saving appliances, smaller number of people per household, less landscaping and more water conservation awareness

Residential Water Customer Growth

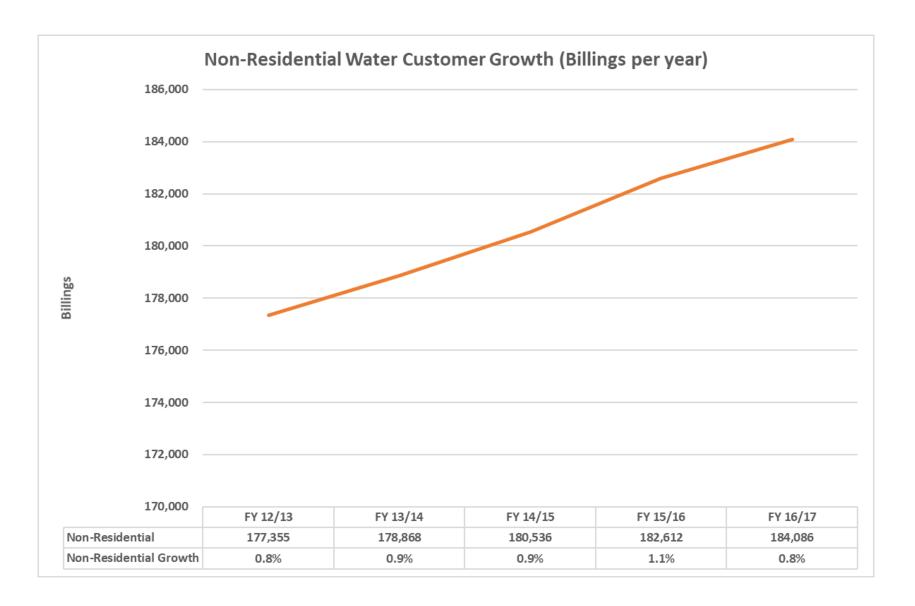




Residential Water Consumption

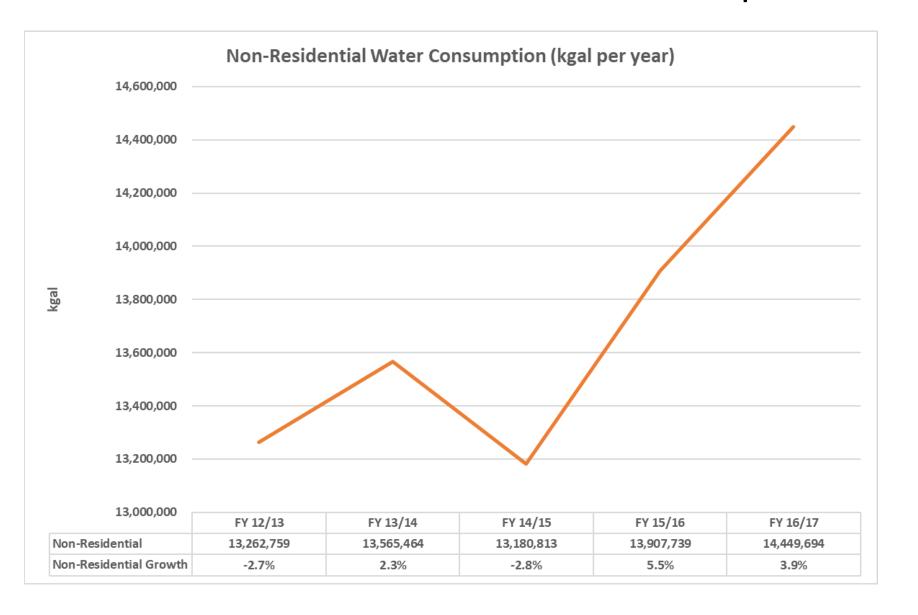


Non-Residential Water Customer Growth

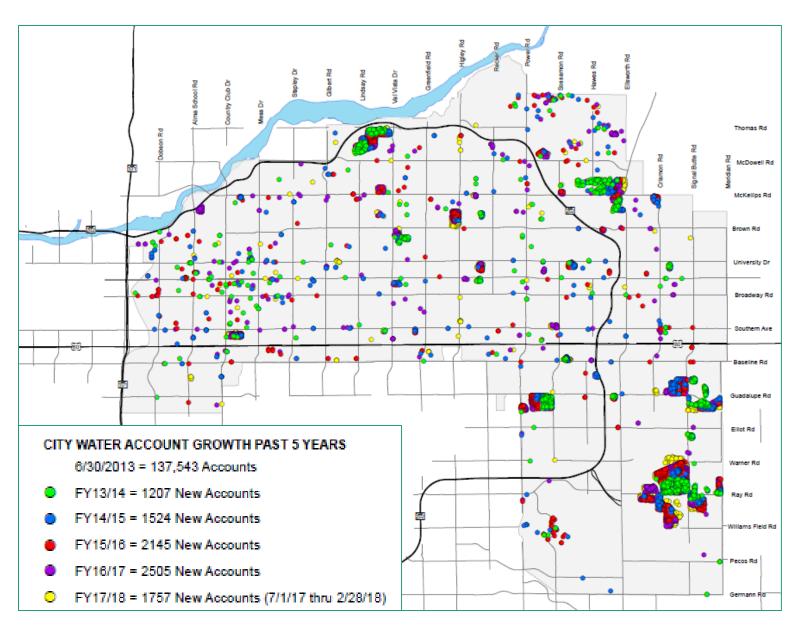




Non-Residential Water Consumption



Water Account Growth since FY 13/14







Water Utility Rate Structure

Current Residential Ti	er Structure for FY 17/18
First 3,000 gallons in	cluded in service charge
Gallons	Cost per 1,000 gal
4,000-10,000	\$3.13
Next 10,000 gallons	\$4.70
Next 4,000 gallons	\$5.57
All additional 1,000 gallons	\$6.07
Proposed Residential T	ier Structure for FY 18/19
	cluded in service charge
First 3,000 gallons in	cluded in service charge
First 3,000 gallons inc	cluded in service charge Cost per 1,000 gal
First 3,000 gallons in Gallons 4,000-9,000	Cost per 1,000 gal

Water Utility Rate Recommendations

- All customers: 3.5% increase on all rate components
- Residential Service Charge: from \$27.55 to \$28.51
- Residential average monthly seasonal consumption total bill: from \$46.33 to \$47.95
- The City average monthly consumption is about 9,000 gallons however seasonality takes into account high demand summer months that experience some water consumption in tier 2. The resulting impact is greater than a straight 9,000 gallons per month.





Water Utility Rate Recommendations

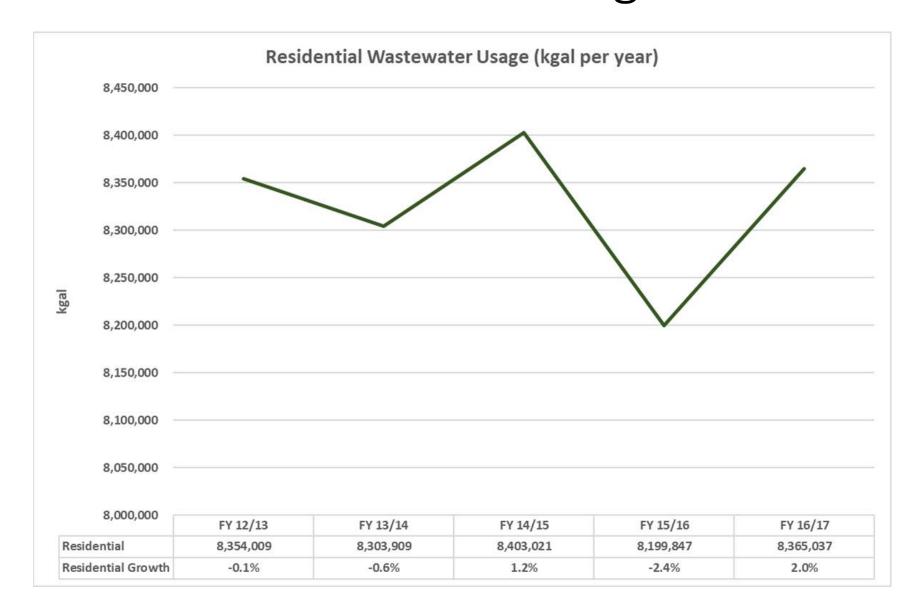
- Implement year-round excess water surcharge over three years
 - Affects commercial, multi-unit dwelling and public authorities customers
 - Currently the surcharge is operative for 9 months (March through November)
 - Financial impact: additional \$92,000 of water revenues in FY 2018/19
- Remove first 3,000 gallons from service charge for Water Hydrant Meter Service
 - The provision of the first 3,000 gallons of water is included in the service charge to sustain life or business
 - Water Hydrant meters are utilized for temporary water use, typically construction projects
 - Financial impact: additional \$30,000 of water revenues in FY 2018/19

Residential Wastewater Customer Growth

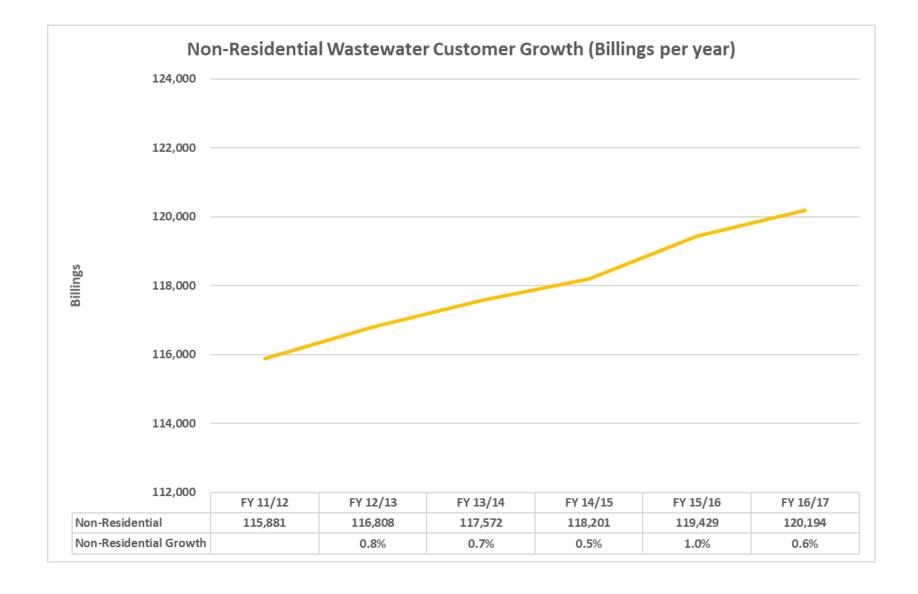




Residential Wastewater Usage



Non-Residential Wastewater Customer Growth



Non-Residential Wastewater Usage



Wastewater Utility Rate Recommendations

- All customers: 4% increase on all rate components
- Residential Service Charge: from \$18.80 to \$19.55
- Residential average monthly consumption total bill: from \$29.05 to \$30.20
- Wastewater rates are not subject to seasonality. The monthly rate is adjusted annually based on the winter water average usage of the individual customer





Average Residential Water and Wastewater Annual Cost Comparisons – FY 2017/18 Rates







Schedule for FY 2018/19 Utility Rate Consideration

Apr 5 – City Council Discussion of Utility Rates

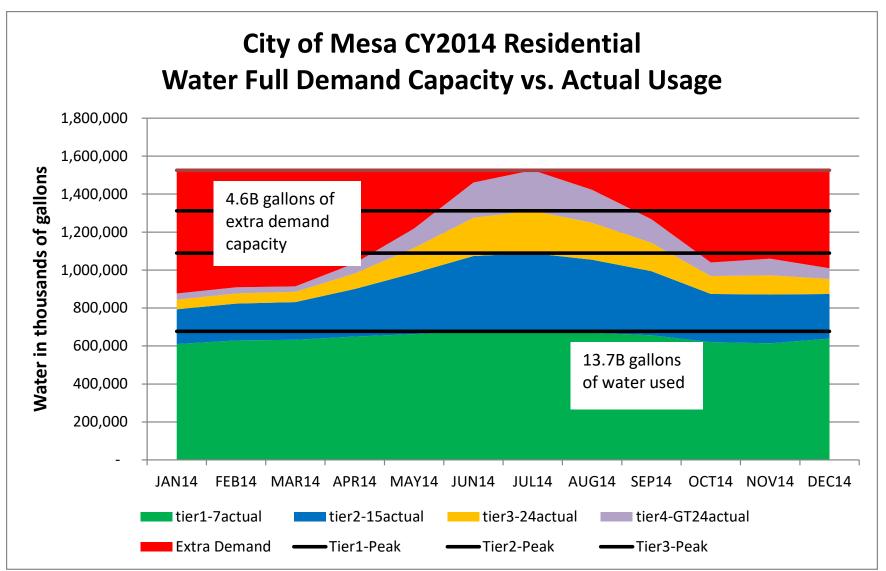
May 7 - Introduce Utility Rate Ordinances

May 21 - City Council Action on Utility Rates

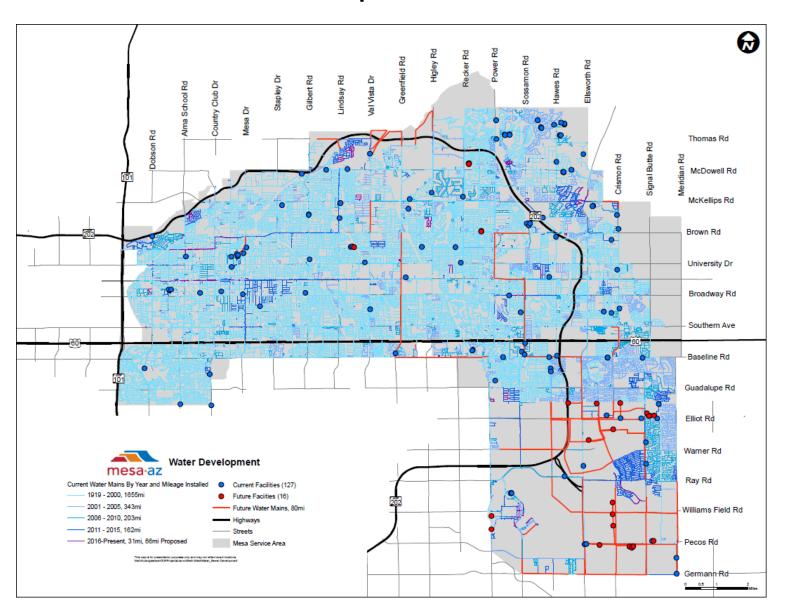
July 1 - Effective date for Utility Rate changes



Residential Demand vs. Actual Usage



Water Main Development



Wastewater Main Development

