Comprehensive Rate Study & Cost Allocation Analysis

Public Workshop | December 4, 2017







Today's Workshop: Present findings and solicit Board input on rate design and fiscal policy considerations

Financial Outlook and Challenges

Financial Planning Scenarios

Rate Structure Recommendations

Next Steps / Q&A

Financial Outlook and Challenges

Financial Plan: Review uses three tests to assess the viability of the rates and corresponding revenues

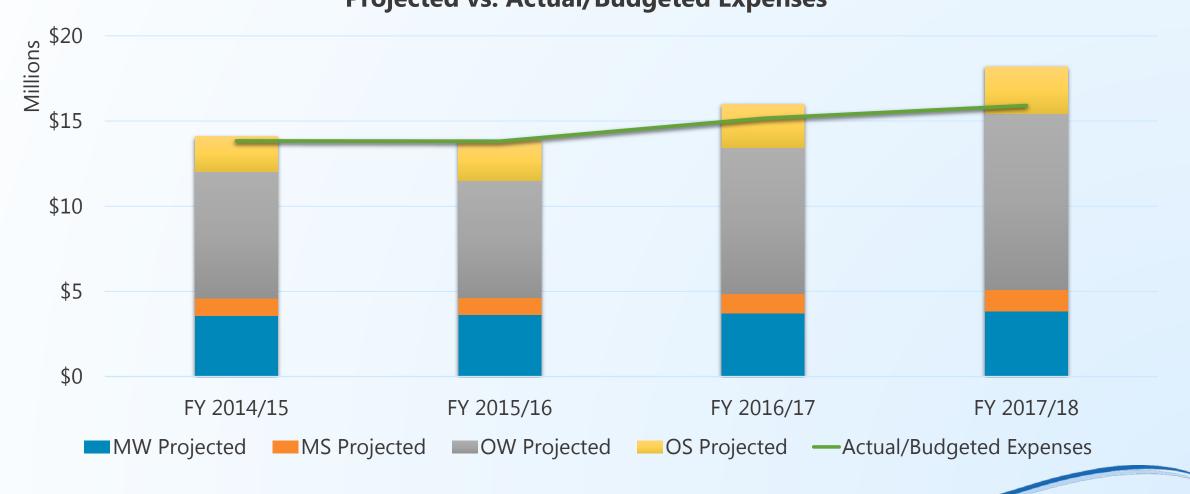
Do the rates fully fund operating expenditures?

Is there sufficient revenue for bond coverage?

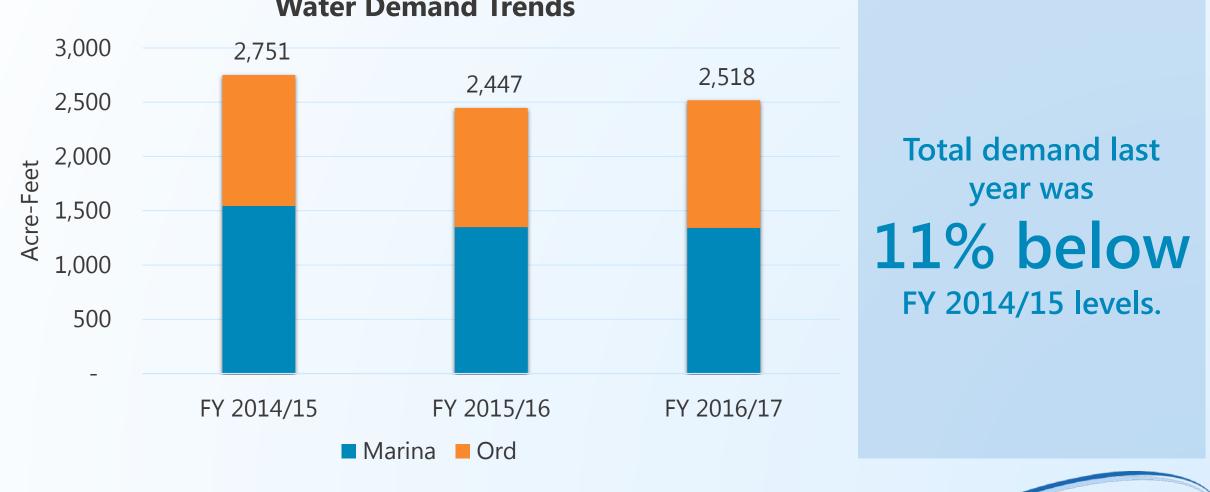
Is the capital plan fully funded through rates, reserves, and/or debt?



O&M expenses have kept pace with projected levels from the last rate study, and have even fallen below projections this year Projected vs. Actual/Budgeted Expenses



Like most utilities in California, the financial plan is impacted by recent conservation, and ongoing capital funding needs



Water Demand Trends

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As a result of the conservation, water rate revenue was at least 10 percent below projected levels in FY 2015/16

\$6.0 Millions \$5.0 \$4.12 \$4.12 \$4.12 \$4.0 \$3.67 \$3.62 \$3.36 \$3.0 \$2.0 \$1.0 -18% -11% -12% \$0.0 FY 2014/15 FY 2015/16 FY 2016/17 Projected Actual

Marina Water Rate Revenue



Ord Water Rate Revenue

Previous forecast of gradual buildup of reserves didn't materialize...

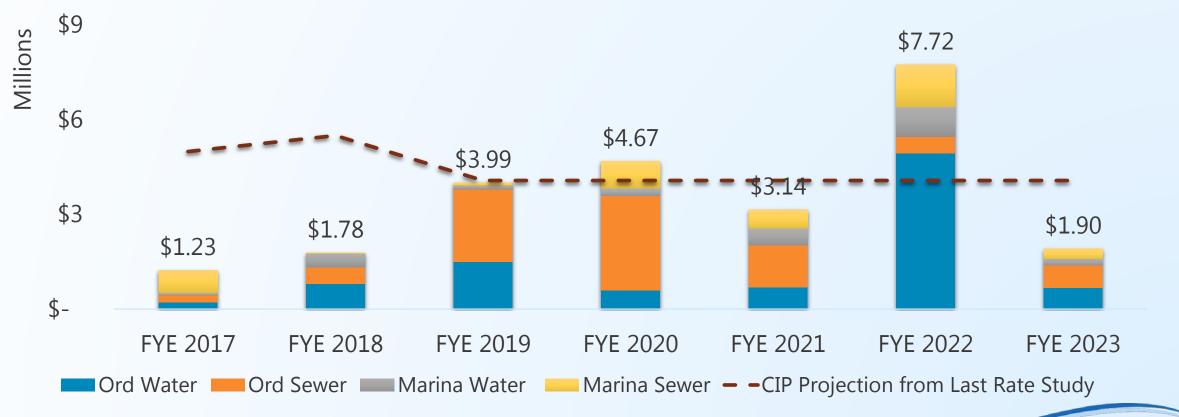


Combined Balances

Combined Capital Reserve Combined Operating Reserve A Required Capital Reserve Required Operating Reserve

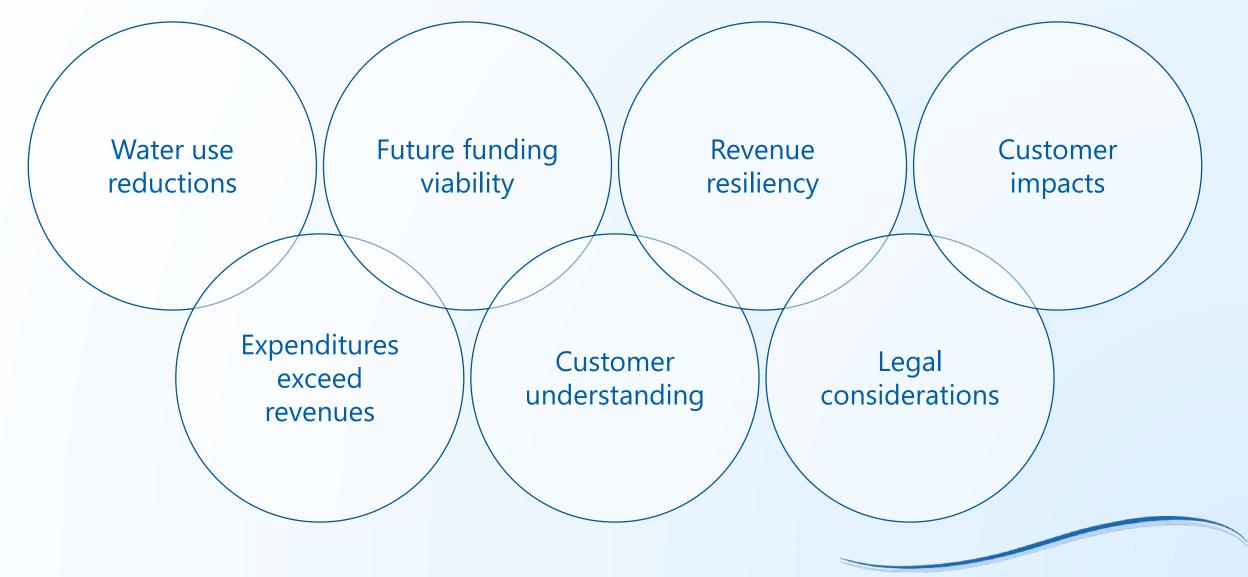
All four systems have significant increases in capital funding needs forecasted in the next five years, a challenge with limited reserves for some cost centers

R&R Capital Funding Needs

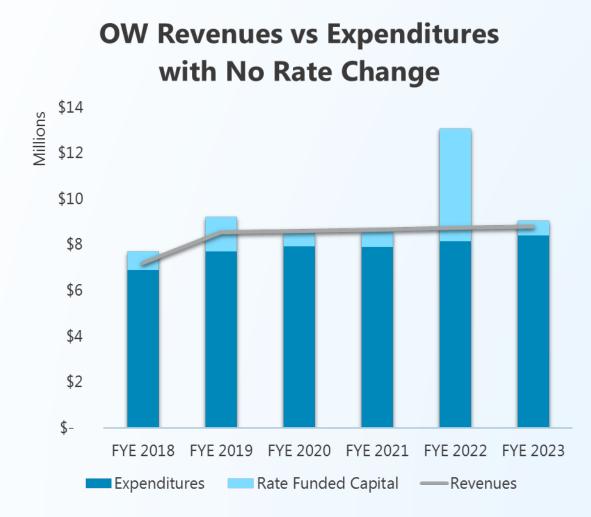


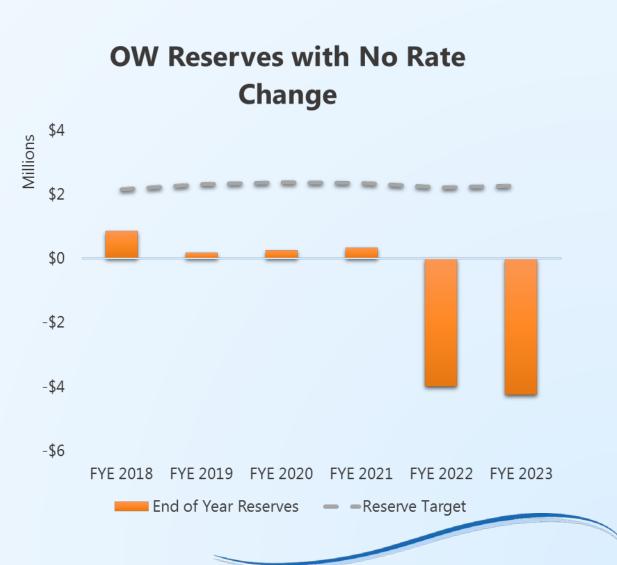
Financial Planning Scenarios

Adjusting to the New Normal: Key considerations and changes to system costs necessitate review of existing rates



Ord Water: Significant capital needs that are currently underfunded by rates or reserves over the next five years





Ord Water: Financial plan options offer a spectrum of capital funding scenarios



• Increases (%):

- 11 / 5 / 5 / 2 thereafter
- Debt
- \$4.9m in FYE 2022

• Reserves:

- O&M reserve \$1.5m below target in FYE 2019; \$300k in 2020
- Meets target in all other years
- Typical Customer Impact:*
- Approx. \$10 per month

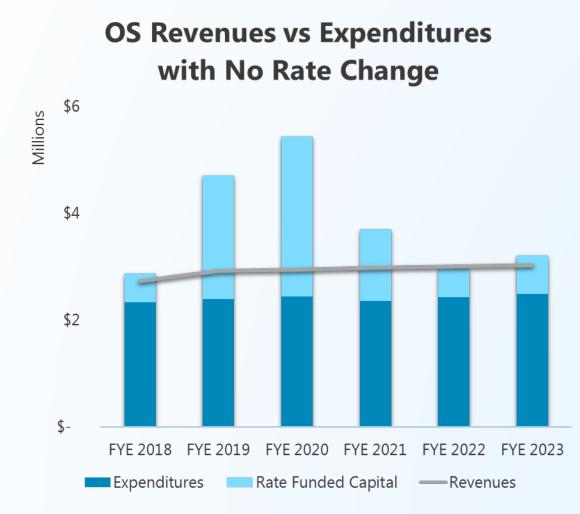


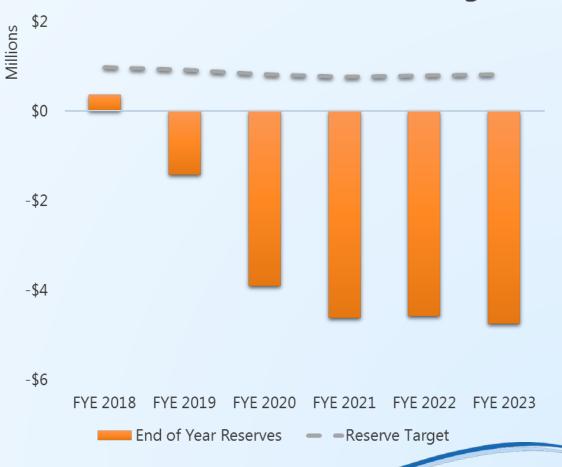
• Increases (%):

- 5 / 5 / 2 thereafter
- Debt
- \$1.5m in FYE 2019
- \$4.9m in FYE 2022
- Reserves:
- O&M reserve \$250k below target in FYE 2019
 - Meets target in all other vears
- Typical Customer Impact:*
- Approx. \$4 per month

- Increases (%): • 3 in all years Extend • Debt • \$1.5m in FYE 2019 • \$4.9m in FYE 2022 • Reserves: • O&M reserve **\$1.4m below** target in FYE 2019; **\$1.0m** in FYE 2020 • Meets target in all other years
 - Typical Customer Impact:*
 - Approx. \$2 per month

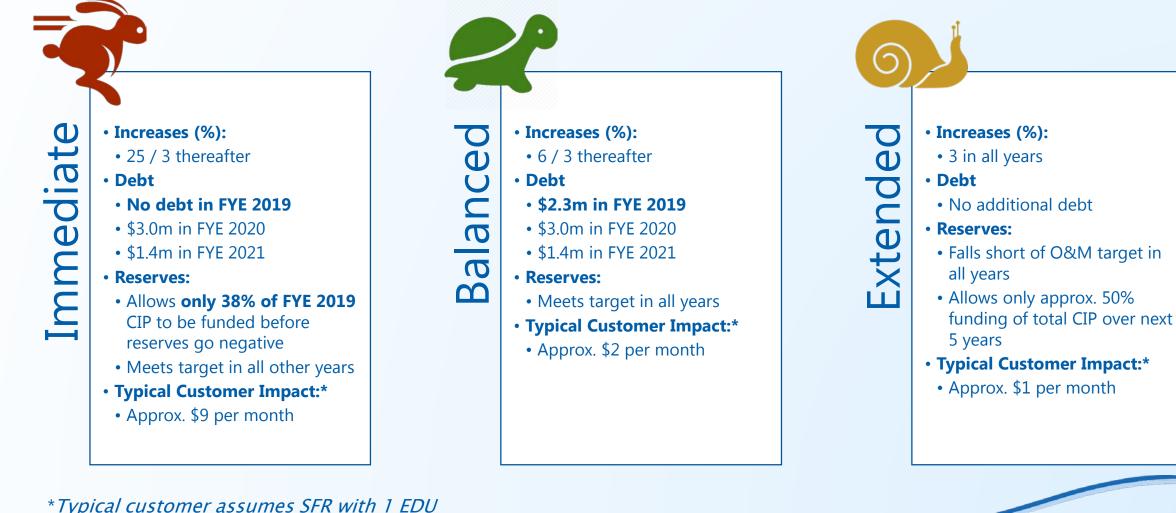
Ord Sewer: Significant capital needs that are currently underfunded by rates or reserves over the next five years



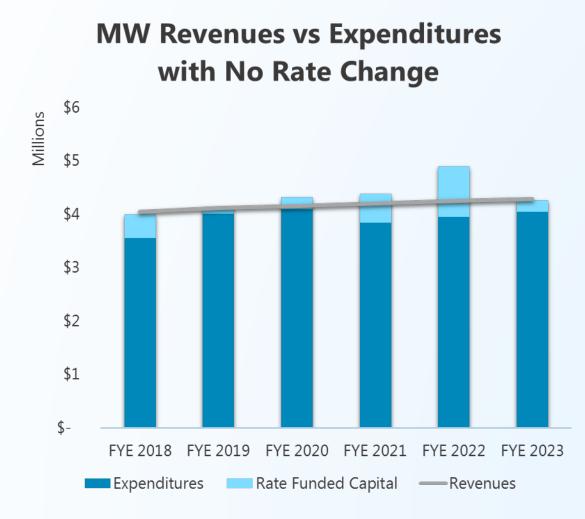


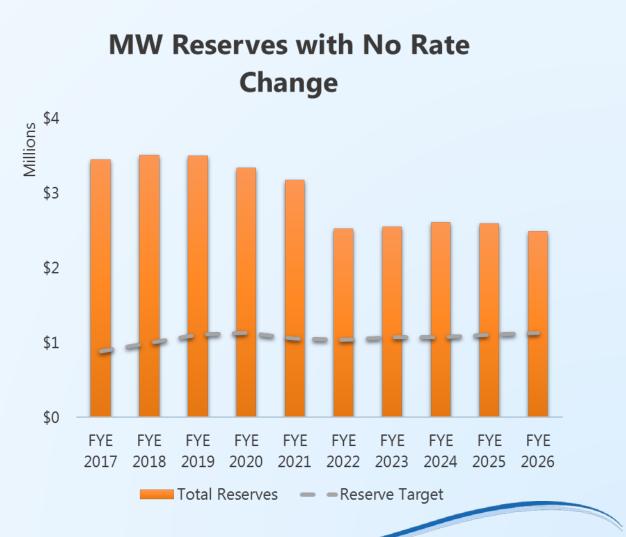
OS Reserves with No Rate Change

Ord Sewer: Options offer either no debt in FYE 2019 and high increases, or lower increases with immediate debt



Marina Water: Rates would need increases to fund O&M, but increases would be inflationary and modest (<4%)





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Marina Water: Financial plan options balance how quickly to rebuild operating and capital reserves

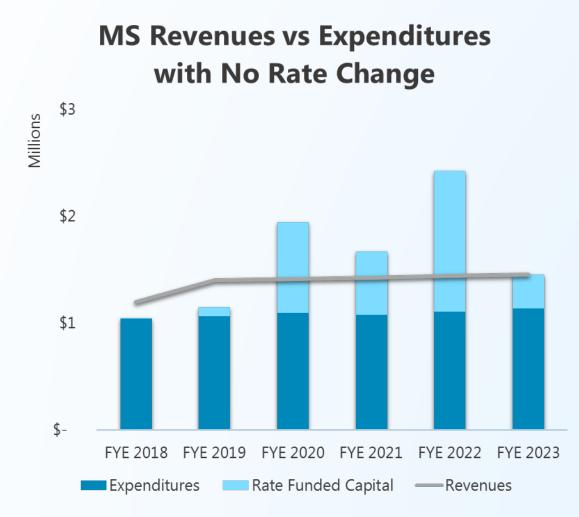


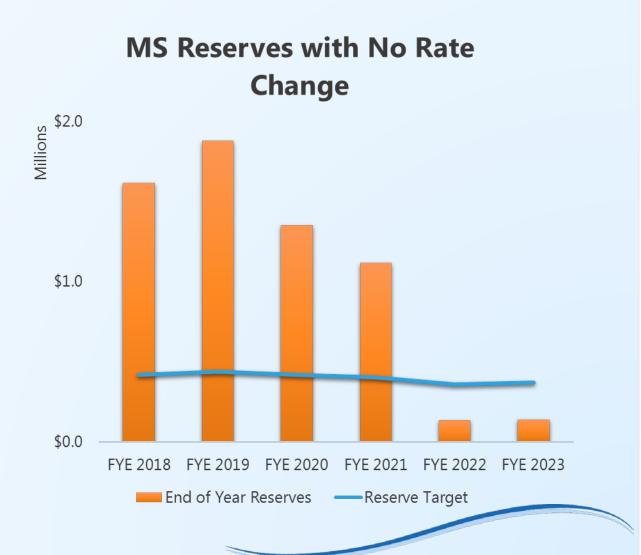
- 3 in all years
- Debt

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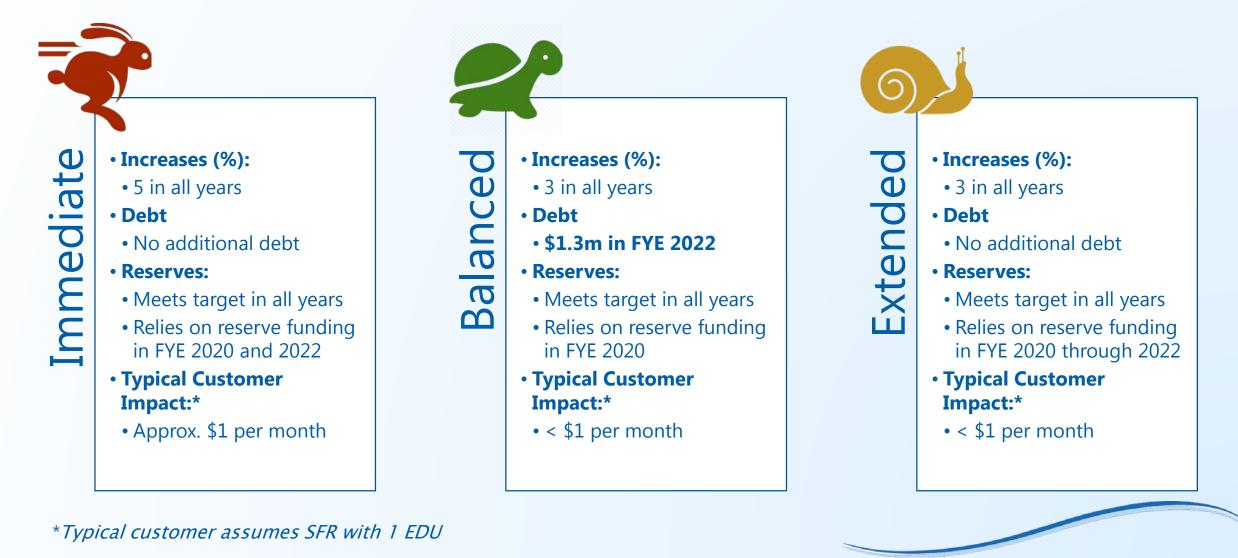
- No additional debt
- Reserves:
 - O&M reserve meets target in all years
- Typical Customer Impact:*
 - Approx. \$3 per month

Marina Sewer: Significant capital expenditures planning in FYE 2020-2022, necessitating additional funding



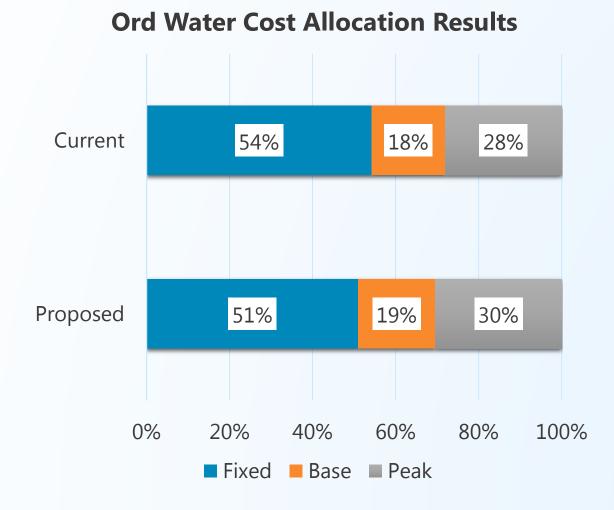


Marina Sewer: Financial plan balances debt in FYE 2022 with more modest rate increases (3% versus 5% without debt)



Rate Structure Recommendations

Ord Water: Cost recovery continues to be stabilized by a high percentage of revenues from fixed charges

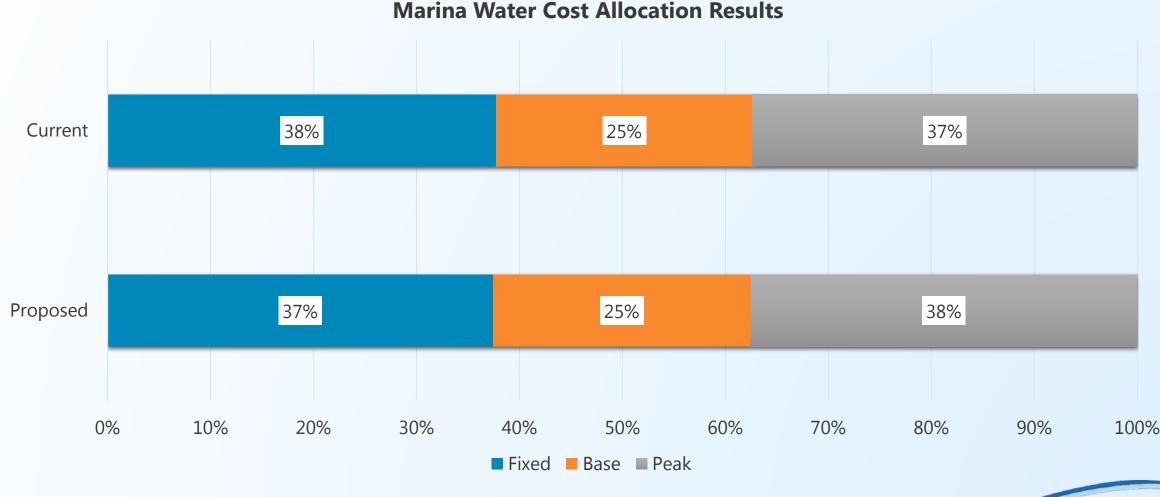


- High fixed cost recovery helped smooth revenue collection during the drought
 - However, percentage went up as volumetric usage went down in recent years





While less than Ord, Marina Water fixed cost recovery is still high enough to help stabilize revenues



Three-Tiered rates have a firm cost of service foundation

		July 1, 2016	January 1, 2017			
Water Consumption Charge						
0-8 hcf	First Tier	2.97 per hcf	3.40 per hcf			
8-16 hcf	Second Tier	4.56 per hcf	5.22 per hcf			
16+ hcf	Third Tier	6.14 per hcf	7.03 per hcf			

But have the underlying assumptions changed since these were developed?

- What changes could be made to the rates?
 - More closely tailored to cost of service?
 - More reflective customer demands?
 - Greater mitigation of financial risk?



With the exception of Institutional customers, MCWD customers have a relatively flat peak profile

Max month is only

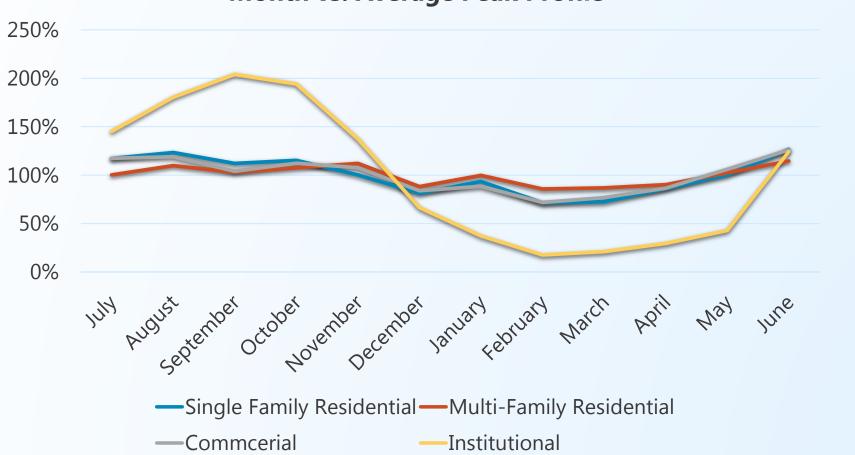
22%

higher

compared to an

average month for all

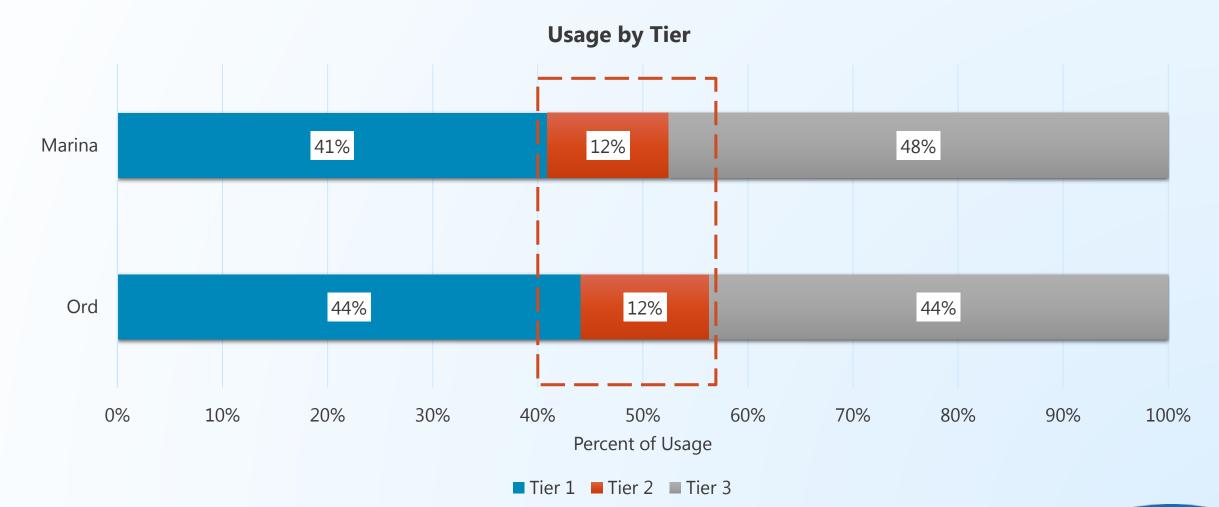
customer classes



Month vs. Average Peak Profile

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Over 85 percent of all usage for both Marina and Ord occurs within tiers 1 or 3, questioning the need for a tier 2



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Given the limited peaking of the District's customers, a twotiered approach may provide a better alternative

Easier to understand and administer

Simpler cost of service nexus

Potentially less subject to revenue risk

Two-Tier structure would expand the first tier, and consolidate the second and third tiers

- Tier 1 would be expanded to provide additional base capacity water
- Tier 2 would cover all usage above the tier 1 allowance
- Tier 3 would be eliminated

Tier	Three-Tier CCF	Two-Tier CCF		
1	8	10		
2	16	All other usage		
3	All other usage	Eliminated		



Proposed Water Rates: Assuming the balanced funding scenario

Ord				Marina				
Tier	Current Rates (Eff. 1/1/18)	Three Tier (1/1/19)	Two Tier (1/1/19)	Tier	Current Rates (Eff. 1/1/18)	Three Tier (1/1/19)	Two Tier (1/1/19)	
1	\$3.68	\$4.15	\$4.08	1	\$2.78	\$3.29	\$3.28	
2	\$5.65	\$5.80	\$8.33	2	\$3.19	\$4.19	\$4.99	
3	\$7.62	\$8.57	_	3	\$5.63	\$5.02	-	

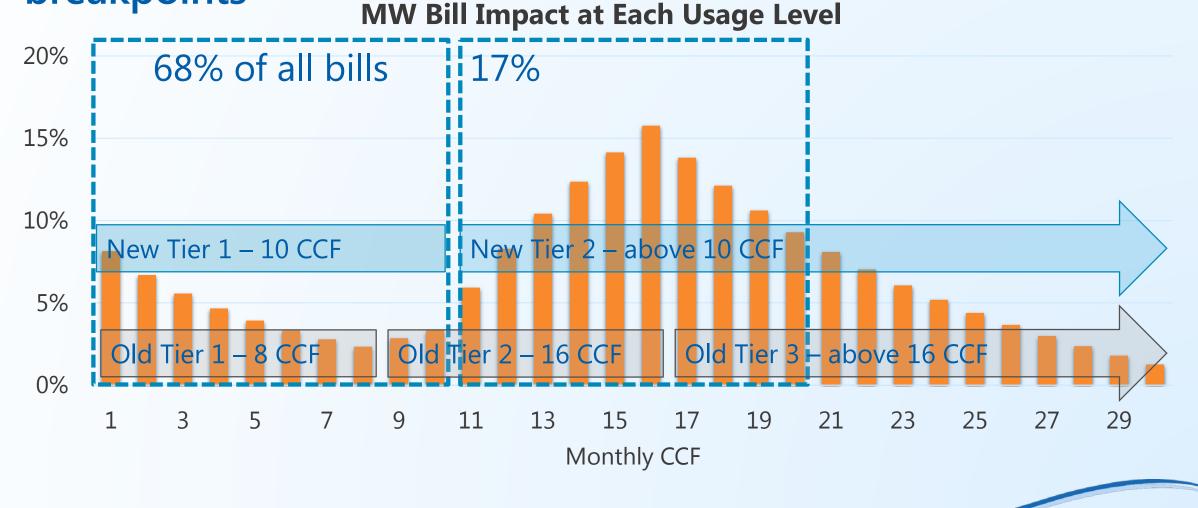
Balanced Financial Plan: Bill impacts for the typical customers



Ord Monthly Bill Comparison (9 CCF)

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Two-Tier structure would impact Marina water customers differently based on usage levels relative to old tier breakpoints





Schedule and Next Steps

Introduction of Draft Results

• December 4 (Board)

• December 18 (Board)

Consideration of Initiating Proposition 218 Process

• January 2018

• July 1, 2018

Rate Adoption

