



Water & Wastewater Rates

Public Works Commission

August 11, 2022



Presentation Outline

- Wastewater Enterprise
 - Five-year financial projection and cost-of-service analysis
 - Confirm key policies
 - New flow-based single and multi family quantity rate
 - Expand commercial classes from two to three classes
 - Phase in single family rate adjustments

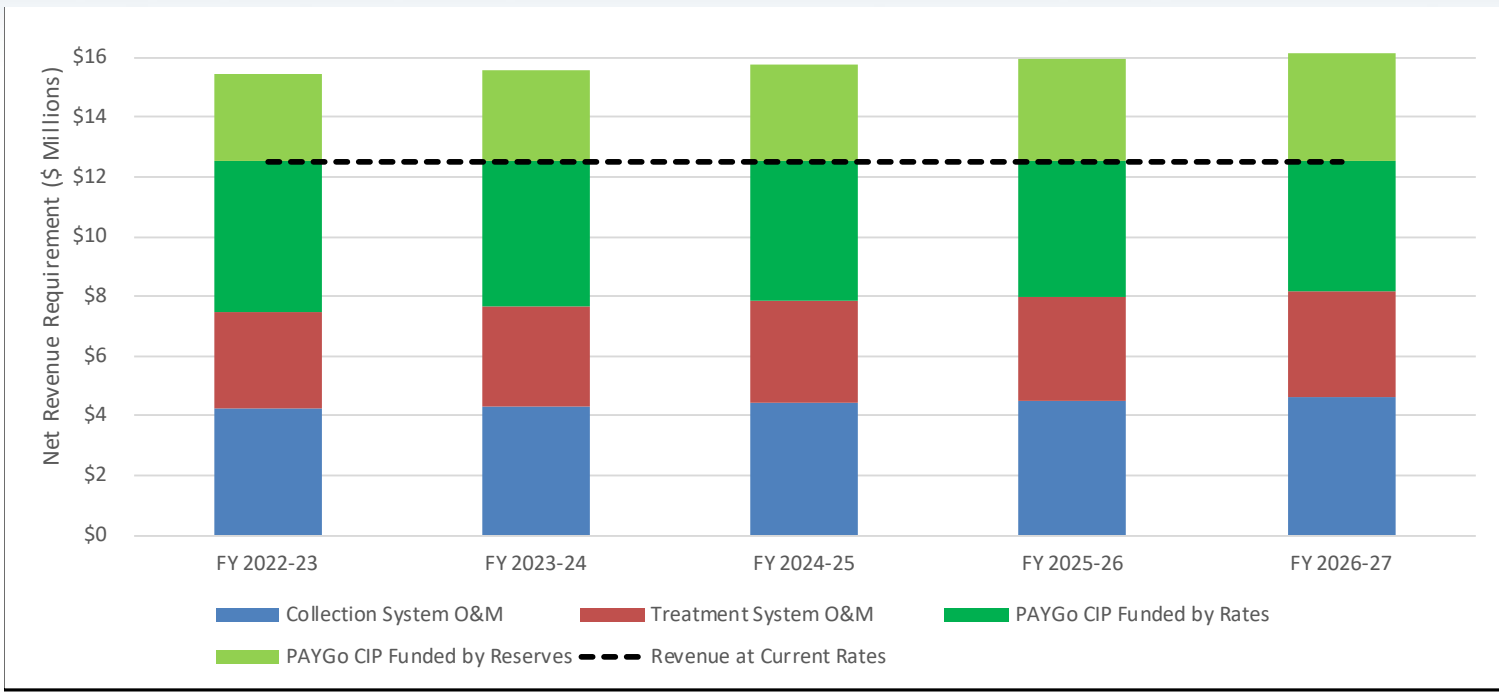
- Water Enterprise
 - Five-year financial projections
 - Confirm key policies
 - Capital spending alternatives
 - Balance of revenue from fixed and quantity charges
 - Outside City rate differential
 - Pass-through adjustments
 - Water reliability charge
 - Water shortage revenue stabilization factors



WASTEWATER RATE STUDY



Wastewater Revenue Requirements

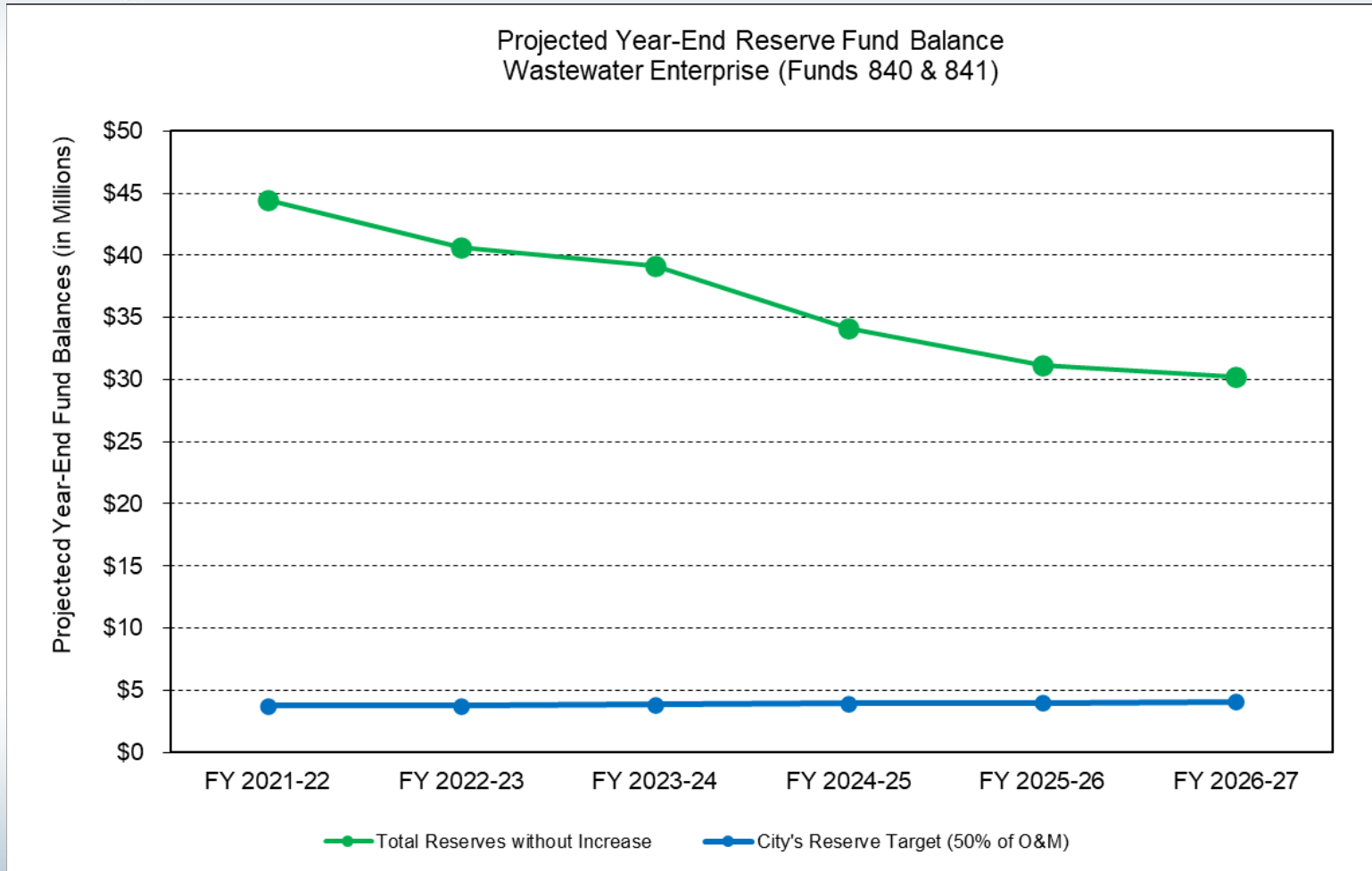


Reserves will be drawn down to meet needs without the need for revenue increases

	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27
Collection System O&M	\$4,201,149	\$4,238,395	\$4,315,594	\$4,434,281	\$4,527,779	\$4,635,228
Treatment System O&M	\$3,300,713	\$3,234,500	\$3,331,535	\$3,398,166	\$3,466,129	\$3,535,452
PAYGo CIP Funded by Rates	\$3,607,958	\$5,054,682	\$4,880,449	\$4,695,131	\$4,533,669	\$4,356,898
PAYGo CIP Funded by Reserves	\$4,404,552	\$2,902,316	\$3,076,550	\$3,261,867	\$3,423,329	\$3,600,101
Total Revenue Requirement	\$15,514,372	\$15,429,894	\$15,604,127	\$15,789,445	\$15,950,907	\$16,127,678



Wastewater Fund Balance





Wastewater Cost of Service Allocations

	Current Revenue	Cost-of-Service	Difference
Single Family Residential	\$3,187,622	\$6,242,658	\$3,055,035
Multi Family Residential	\$5,304,141	\$3,246,030	(\$2,058,111)
Commercial Domestic Strength	\$2,739,728	\$1,941,207	(\$798,522)
Commercial Excess Strength	\$1,277,538	\$1,079,135	(\$198,403)
Total	\$12,509,029	\$12,509,029	\$0

- Costs shift toward Single Family class
 - Single Family flow per dwelling unit is higher than Multi Family flow
 - Commercial share of costs has declined relative to the increase in Single Family



Derivation of Return to Sewer Factors

<u>Customer Class</u>	<u>Annual Flow</u> [1] hcf a	<u>Sewered Flow</u> [2] hcf b	<u>Return to Sewer</u> c = b/a	<u>Accounts</u> Units d	<u>Avg Flow per Unit</u> hcf per year e = b/d
Single Family Residences	2,017,021	1,339,931	66.4%	6,080	220
Multiple Family Residences	572,457	551,726	96.4%	10,117	55
Commercial/Industrial	734,172	694,018	94.5%	795	873
Municipal	43,051	24,558	57.0%	57	431

1. Average of CY 2017 & 2018 annual metered flow
2. Average of lowest three winter months



Proposed Cost-of-Service Rates

Customer Class	Current Bi-Monthly	Proposed (COS)
Single Family		
Service Charge per dwelling unit	\$87.38	\$60.27
Quantity Charge	n/a	\$3.02
Multi Family		
Service Charge per dwelling unit	\$87.38	\$26.04
Quantity Charge	n/a	\$3.02
Commercial/Municipal		
Service Charge per account	\$34.20	\$60.27
Quantity Charges (option 1 - existing classes)		
Domestic Strength	\$4.74	\$3.02
Excess Strength	\$7.08	\$5.87
Quantity Charges (option 2 - proposed classes)		
Low Strength	n/a	\$3.02
Med Strength	n/a	\$4.42
High Strength	n/a	\$5.87

- Single Family and Multi Family bi-monthly fixed service charges decrease with the introduction of a flow-based quantity charge
- Quantity charges based on estimated sewer flow
 - Metered water use factored down to eliminate flow that is not sewerred such as irrigation
 - Return to sewer factors calculated for each customer class

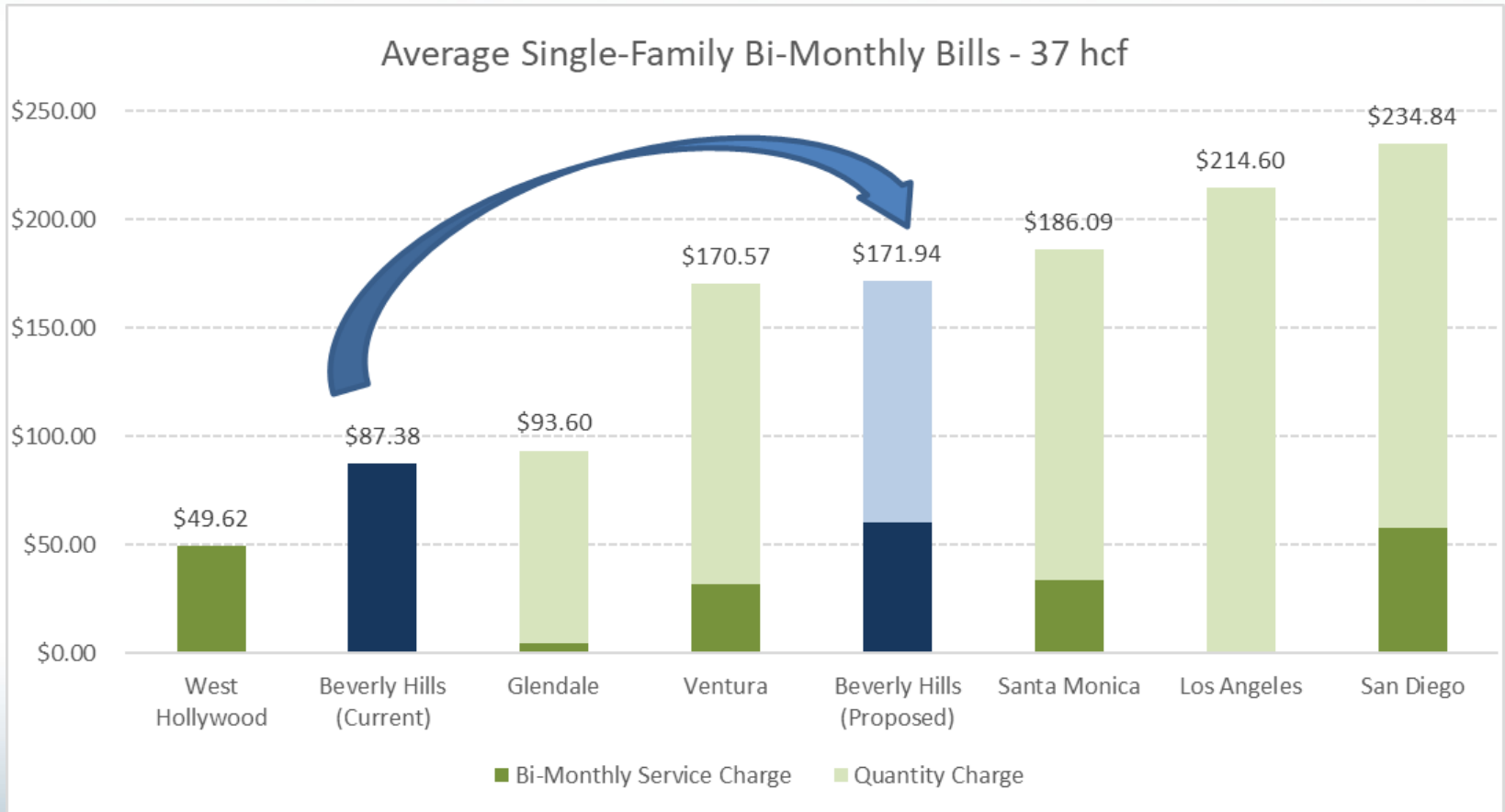


Average Bi-Monthly Bill Comparison

Average Bi-Monthly Bill by Class				
	Single Family	Multi Family	Commercial Domestic/Low	Commercial Excess/High
Sample Bills at Current Rates				
Bi-Monthly Service Charge	\$87.38	\$87.38	\$34.20	\$34.20
Quantity Charge per hcf				
Metered water use			112.1	303.6
Rate per hcf			\$4.74	\$7.08
Total Quantity Charge	n/a	n/a	\$531.51	\$2,149.52
Current Bi-Monthly Bill	\$87.38	\$87.38	\$565.71	\$2,183.72
Sample Bills at Proposed Rates				
Bi-Monthly Service Charge	\$60.27	\$26.04	\$60.27	\$60.27
Quantity Charge per hcf				
Metered water use	55.7	9.3	112.1	303.6
Return to sewer factor	66.4%	96.4%	94.5%	94.5%
Sewered flow	37.0	9.0	106.0	287.0
Rate per hcf	\$3.02	\$3.02	\$3.02	\$5.87
Total Quantity Charge	\$111.67	\$27.16	\$319.91	\$1,685.03
Proposed Bi-Monthly Bill	\$171.94	\$53.21	\$380.18	\$1,745.30
Difference				
Dollar Difference	\$84.56	(\$34.17)	(\$185.53)	(\$438.43)

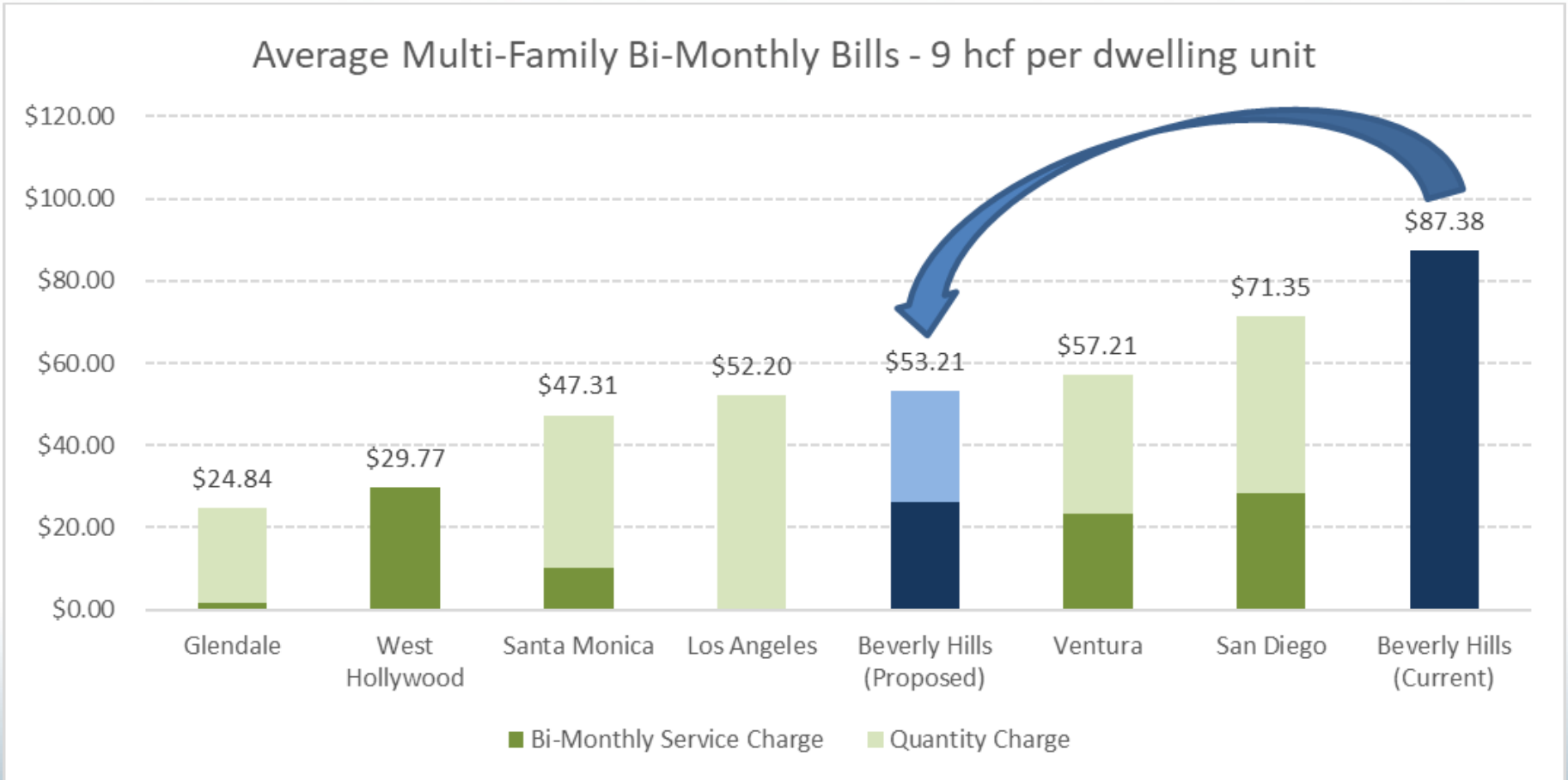


Comparison With Other Agencies – Single Family





Comparison With Other Agencies – Multi Family





Option: Phase In Single Family Rates

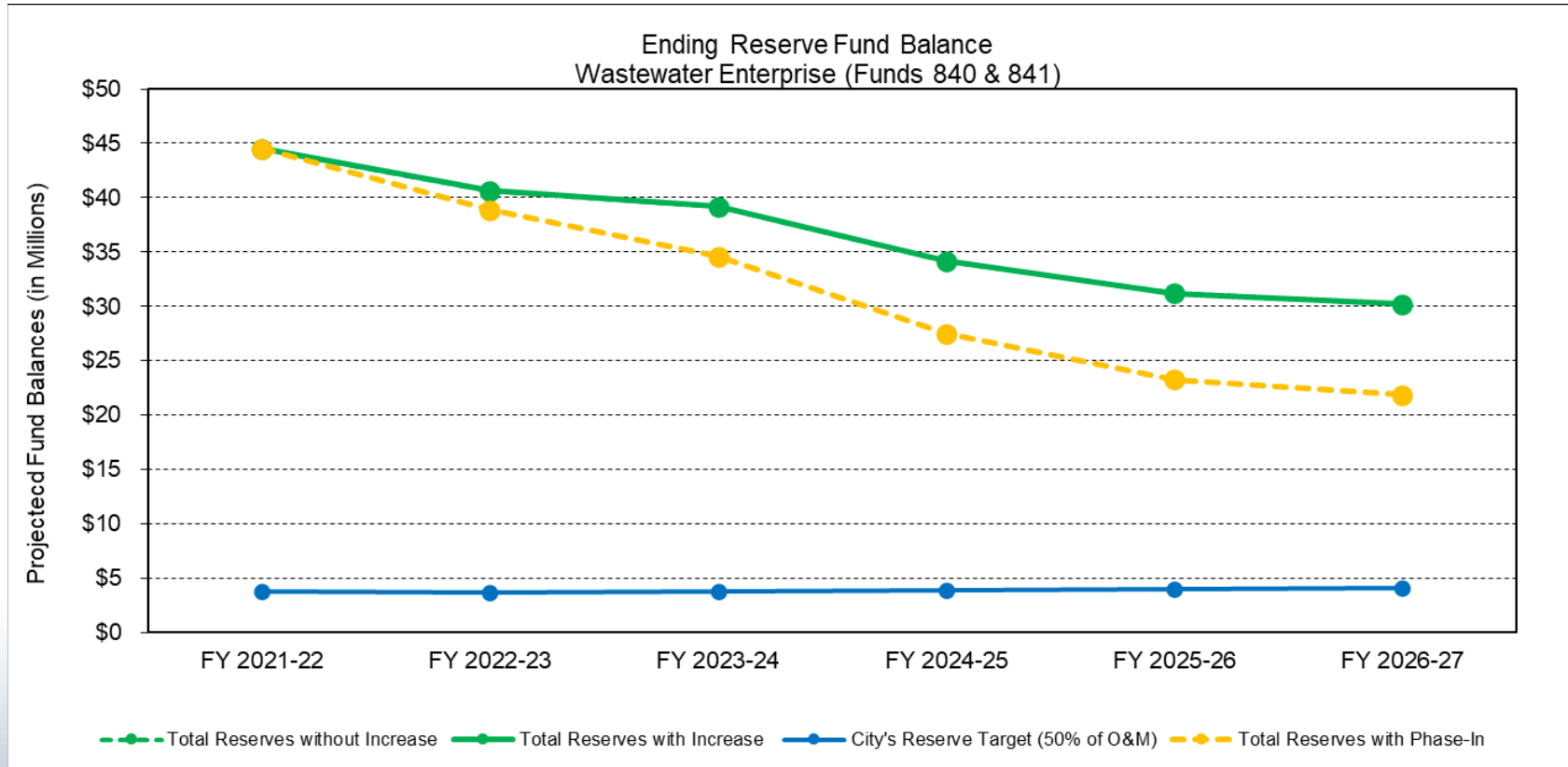
- Phase in Single Family quantity charge over five years
 - Quantity charge increases by 20% of proposed \$3.02 every year over five years

	1/1/2023	1/1/2024	1/1/2025	1/1/2026	1/1/2027
Proposed Rate per hcf	\$3.02	\$3.02	\$3.02	\$3.02	\$3.02
Phase-in Increase	20%	40%	60%	80%	100%
Phased-in Rate per hcf	\$0.60	\$1.21	\$1.81	\$2.41	\$3.02
Sewered flow	37	37	37	37	37
Quantity charge	\$22.33	\$44.67	\$67.00	\$89.33	\$111.67
Service charge	\$60.27	\$60.27	\$60.27	\$60.27	\$60.27
Proposed bill	\$82.61	\$104.94	\$127.27	\$149.61	\$171.94
Bill under current rates	\$87.38	\$87.38	\$87.38	\$87.38	\$87.38
Difference	(\$4.77)	\$17.56	\$39.89	\$62.23	\$84.56

- Requires use of Wastewater Enterprise reserves of \$8.1 million over five years
- Phase in unnecessary for other classes



Phase-In Rates

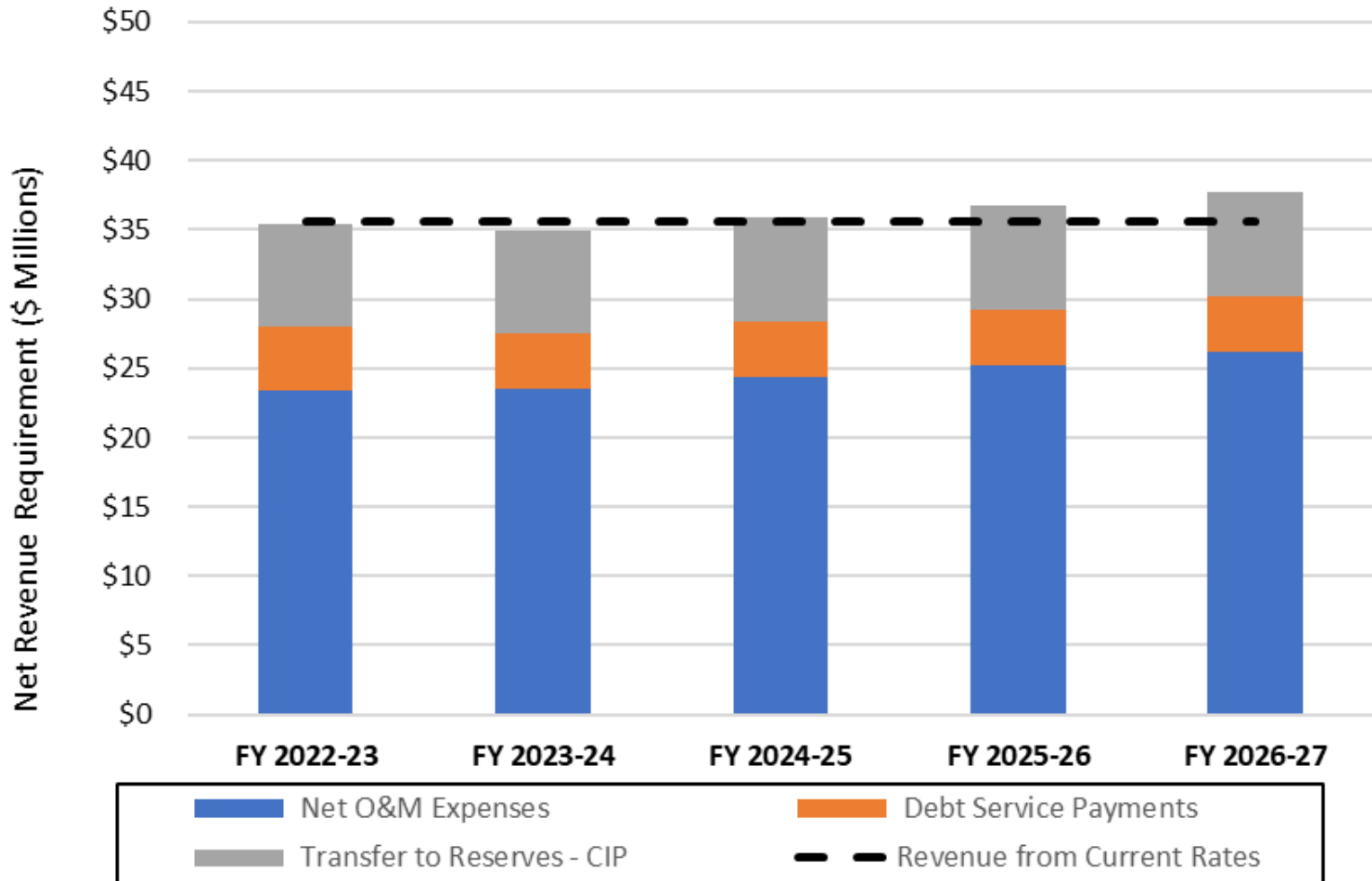




WATER RATE STUDY

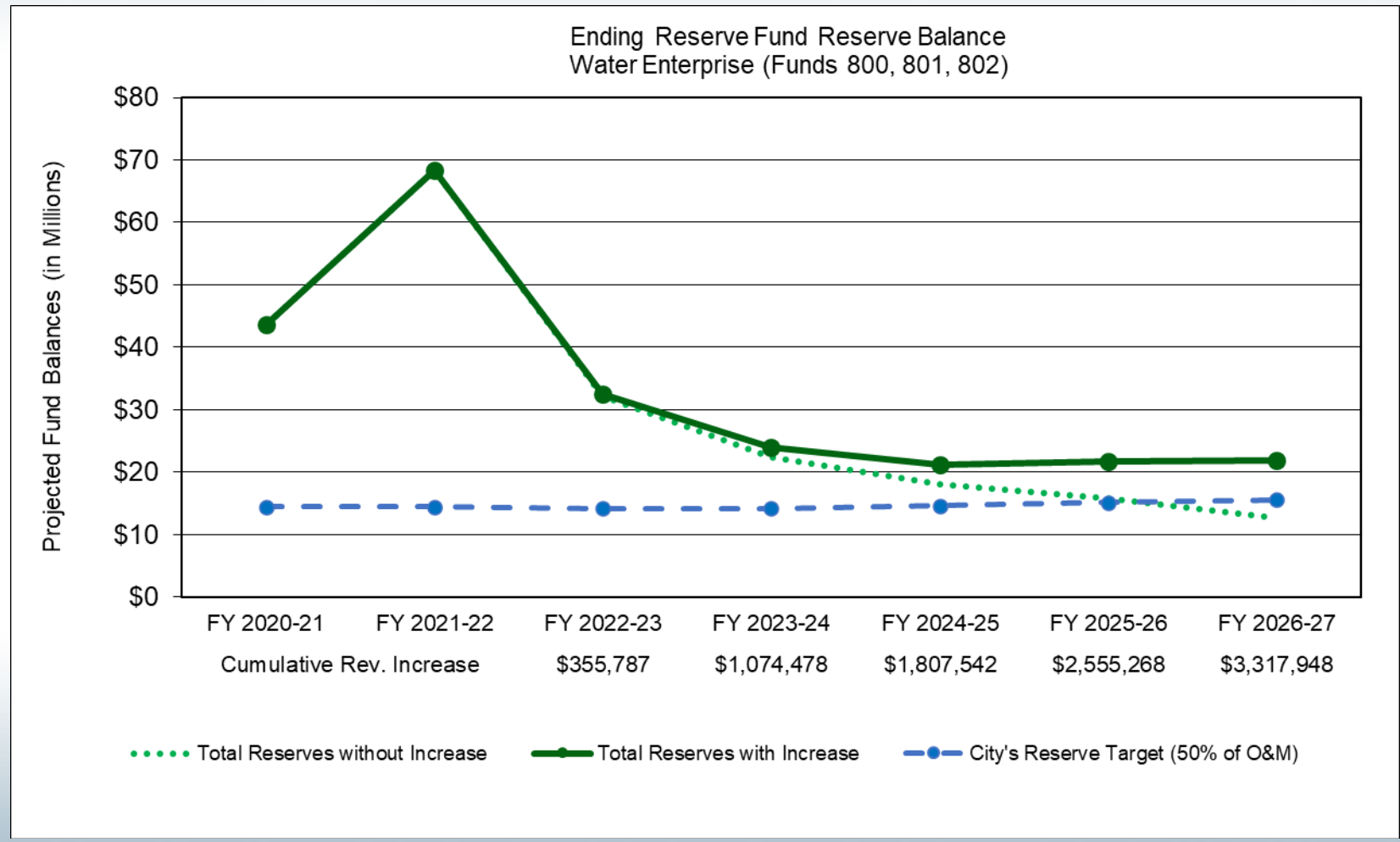


Water Revenue Requirement – CIP Option 1





Water Fund Balance – CIP Option 1





Water CIP Options

Options	Project	Preliminary Cost Estimate	Increase in Emergency Storage*	
1	Cabrillo Forebay	\$14.2M	0.3MG	<1%
2	Cabrillo Reservoir	\$32M	4.3MG	10%
3	Cabrillo Forebay and Reservoir 4C	\$24.7M	1.3MG	3%

*Existing Total Storage 43.5MG

With the addition of the new Reservoir Management Systems (RMS) at Greystone (19.4MG), Coldwater (8.3MG) and Sunset (6MG) reservoirs, which make up 77% of the total storage within the City, we will be increasing emergency storage by 25% (8.5MG).

Other Projects	Preliminary Cost Estimate	Increase in Emergency Storage
RMS	\$3M	8.5MG
Treatment Plant Production	N/A	2.3MG



Water CIP Options

Water Capital Project Schedule Options		Option 1	Option 2	Option 3
1	Cabrillo Reservoir Project ¹	\$4,180,937	\$21,270,460	\$4,180,937
2	Reservoir Repl. & Pump Station Rehab Project ¹	\$2,969,633	\$2,969,633	\$9,508,941
3	All Other Capital Projects ¹	\$45,274,713	\$45,274,713	\$45,274,713
4	Total 5-Year CIP Spending¹	\$52,425,283	\$69,514,806	\$58,964,591
5				
6	Average Increase to Bi-Monthly Bill Received each Year			
7	Single-Family/Duplex	\$5.64	\$15.19	\$11.35
8	Multi-Family ²	\$44.98	\$66.37	\$58.00
9	Commercial/Municipal	\$36.35	\$70.53	\$57.19

¹All CIP Figures are escalated and assume CIP Completion Factor of 80% due to project timing.

²Multi-Family bill impact assume a 10-unit complex.



Balance of Fixed and Quantity Charge Revenue

- Current practice
 - Fixed charges for water and fire service revenue is based on COS analysis
 - Generates 17% of rate revenue
 - Fixed costs are about 68% of revenue requirement
 - Difference between fixed revenue and fixed costs is balanced by other revenue stabilization measures
 - Pass-thru adjustments and revenue stabilization factors
- Recommendation – continue practice



Outside City Rate Differential

- Current practice
 - Inside City (Beverly Hills) customers pay less than Outside City (West Hollywood) customers
 - Reflects the costs incurred by the Water Enterprise that have been paid by Beverly Hills' General Fund (e.g., street maintenance & repairs, use of City facilities, public safety)
 - Outside City customers do not have a similar contribution to reduce their rates
- Recommendation – continue practice
 - Apply updated analysis of rate differential
 - Outside City quantity charge rates will be \$0.66 more per hcf than Inside City rates



Pass-Through Rate Adjustments

- Current practice
 - Adjust quantity charges to cover the cost of unforeseen increases in the cost of purchased water from Metropolitan Water District
 - Does not require Proposition 218 notification; customers receive notice of adjustment on bills
 - Common industry practice
- Recommendation – continue practice



Water Reliability Charge

- Current practice
 - An additional uniform rate per HCF paid by all customers
 - Generates revenue to cover the cost of developing water supplies that reduce the City's dependence on MWD
- Recommendation – continue practice
 - Confirm adequacy of revenue from charge to meet CIP expenses
 - Rate per HCF continues to increase \$0.01 per year



Water Shortage Revenue Stabilization Factors

- Current practice
 - Factors adjust quantity charges to offset revenue shortfalls caused by conservation during water shortages
 - Factors are tailored to each class' ability to conserve within each required Stage's overall reduction goal
 - Does not require Proposition 218 notification; customers receive notice of adjustment on bills
- Recommendation – continue practice
 - Apply updated analysis of revenue stabilization factors



Water Shortage Revenue Stabilization Factors

Shortage Reductions By Class

Customer Class	Stage A	Stage B	Stage C	Stage D	Stage E
	5% Reduction	10% Reduction	20% Reduction	30% Reduction	50% Reduction
Single Family	6%	12%	24%	36%	58%
Multi-Family	3%	5%	11%	16%	31%
Commercial	4%	7%	15%	22%	40%
Irrigation	11%	22%	45%	67%	100%

Revenue Stabilization Factors By Class

Customer Class	Stage A	Stage B	Stage C	Stage D	Stage E
	5% Reduction	10% Reduction	20% Reduction	30% Reduction	50% Reduction
Single Family	1.039	1.081	1.187	1.333	1.824
Multi-Family	1.016	1.033	1.069	1.110	1.262
Commercial	1.023	1.048	1.103	1.170	1.388
Irrigation	1.076	1.169	1.474	2.192	n/a

To be applied as a multiplier to the regular quantity charges in effect prior to a shortage being declared.



END OF PRESENTATION