SPECIAL WORK SESSION AGENDA

CITY COUNCIL SPECIAL WORK SESSION THURSDAY MAY 16, 2024

COUNCIL CHAMBERS 211 WEST ASPEN AVENUE 3:00 P.M.

All City Council Meetings are live streamed on the city's website (<u>https://www.flagstaffaz.gov/1461/Streaming-City-Council-Meetings</u>)

PUBLIC COMMENT

Verbal public comments related to items appearing on the posted agenda may be given in person or online and will be taken at the time the item is discussed.

To provide online verbal comment on an item that appears on the posted agenda, use the link below.

ONLINE VERBAL PUBLIC COMMENT

Written comments may be submitted to <u>publiccomment@flagstaffaz.gov</u>. All comments submitted via email will be considered written comments and will be documented in the record as such.

1. Call to Order

NOTICE OF OPTION TO RECESS INTO EXECUTIVE SESSION

Pursuant to A.R.S. §38-431.02, notice is hereby given to the members of the City Council and to the general public that, at this work session, the City Council may vote to go into executive session, which will not be open to the public, for discussion and consultation with the City's attorneys for legal advice on any item listed on the following agenda, pursuant to A.R.S. §38-431.03(A)(3).

2. Roll Call

NOTE: One or more Councilmembers may be in attendance through other technological means.

MAYOR DAGGETT VICE MAYOR ASLAN COUNCILMEMBER HARRIS COUNCILMEMBER HOUSE

COUNCILMEMBER MATTHEWS COUNCILMEMBER MCCARTHY COUNCILMEMBER SWEET

3. Pledge of Allegiance, Mission Statement, and Land Acknowledgement

MISSION STATEMENT

The mission of the City of Flagstaff is to protect and enhance the quality of life for all.

LAND ACKNOWLEDGEMENT

The Flagstaff City Council humbly acknowledges the ancestral homelands of this area's Indigenous nations and original stewards. These lands, still inhabited by Native descendants, border mountains sacred to Indigenous peoples. We honor them, their legacies, their traditions, and their continued contributions. We celebrate their past, present, and future generations who will forever know this place as home.

4. Water, Sewer, and Reclaimed Water Rates and Fees Study Special Work Session

City staff and the City's Consultant, Stantec, are addressing questions from the City Council related to the assumptions used in the rate model. City staff and Stantec will facilitate a discussion on financial planning scenarios and how those might influence the outcome of the proposed rates for water, sewer, and reclaimed water rates and fees. The desired outcome is for the Council to provide their direction on the financial planning scenarios.

5. Adjournment

CERTIFICATE OF POSTING OF NOTICE

The undersigned hereby certifies that a copy of the foregoing notice was duly posted at Flagstaff City Hall on _____ at ______ a.m./p.m. in accordance with the statement filed by the City Council with the City Clerk.

Dated this _____ day of _____, 2024.

Stacy Saltzburg, MMC, City Clerk

THE CITY OF FLAGSTAFF ENDEAVORS TO MAKE ALL PUBLIC MEETINGS ACCESSIBLE TO PERSONS WITH DISABILITIES. With 48-hour advance notice, reasonable accommodations will be made upon request for persons with disabilities or non-English speaking residents. Please call the City Clerk (928) 213-2076 or email at stacy.saltzburg@flagstaffaz.gov to request an accommodation to participate in this public meeting.

NOTICE TO PARENTS AND LEGAL GUARDIANS: Parents and legal guardians have the right to consent before the City of Flagstaff makes a video or voice recording of a minor child, pursuant to A.R.S. § 1-602(A)(9). The Flagstaff City Council meetings are live-streamed and recorded and may be viewed on the City of Flagstaff's website. If you permit your child to attend/participate in a televised Council meeting, a recording will be made. You may exercise your right not to consent by not allowing your child to attend/participate in the meeting.

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

То:	The Honorable Mayor and Council	TAFE
From:	Shannon Anderson, Senior Deputy City Manager	RIACSTAFF
Co-Submitter	: Erin Young, Water Services Manager, and Shannon Jones, Water Services Division Director	AND CONTRACTOR
Date:	05/09/2024	F374BLISHED 1881
Meeting Date:	05/16/2024	

TITLE:

Water, Sewer, and Reclaimed Water Rates and Fees Study Special Work Session

DESIRED OUTCOME:

City staff and the City's Consultant, Stantec, are addressing questions from the City Council related to the assumptions used in the rate model. City staff and Stantec will facilitate a discussion on financial planning scenarios and how those might influence the outcome of the proposed rates for water, sewer, and reclaimed water rates and fees. The desired outcome is for the Council to provide their direction on the financial planning scenarios.

Executive Summary:

City staff and Stantec have been discussing the rate study components with the Water Commission and City Council since September 2023. There have been discussions about financial planning; capacity fees; rate design priorities; water, sewer, and reclaimed water rates; and miscellaneous fees. During today's presentation, City staff will provide an update to Council on the most recent outreach efforts that continue to provide awareness to the community about the rate study and the proposed rates. City staff will share information about the water services division, operations and maintenance, capital improvements, and the impacts of the proposed rates. This conversation will lead us to the four financial planning scenarios for Council consideration.

Information:

City Council and the Water Commission have committed a significant amount of time learning about the rate study process, policy strategies, financial planning, cost-of-service details, and potential rate designs to create the proposed water, sewer, and reclaimed rates. All of this information is available on the cleanwaterflagstaff.com website. The team of Stantec and City staff members have worked to build a rate calculator that is available on this website, so community members and businesses are able to see what their water and sewer bills may look like for the upcoming five years based on the proposed rates. The group has invested in radio, print, social media, and digital advertising to provide outreach and educational opportunities. In this presentation the team will share some of the outcomes of this outreach and what efforts will continue over the next few months.

During the last several months of meetings, there have been discussions about revenue needs and the opportunities available to meet those financial needs. City staff will spend time during today's presentation providing the operational details behind these numbers. Sharing how these revenues are used to maintain service and what happens when there are shortages or unexpected challenges. The capital improvement plan makes up a large portion of the water services revenue needs and City staff will provide an explanation of the approved, informed, and unfunded capital project lists and how this looks across the community. These future revenue needs are built upon assumptions and staff will provide background on how the assumptions in the rate model were derived based on today's experiences. Given altering these assumptions can result in different outputs, Stantec has created four financial planning scenarios to demonstrate how changing assumptions on growth, cost escalation, debt or CIP execution can alter the

resulting proposed rates.

*Please note the attached financial planning scenarios presentation still includes drafts of updated rate projections and bill impacts. These will be finalized following the completion of Stantec's quality control review process.

Attachments:Water, Sewer, and Reclaimed Water Rate StudyFinancial Planning Scenarios



Water Rate Study Outreach May 2024





Join us and spread the word!

Juture of Water Rate Study COMMUNITY DROP-IN EVENT



- Free pizza
- Free guest pass to the Aquaplex for all attendees*
- Learn about water and sewer rate changes
- Speak to Mayor Daggett
- Open to City of Flagstaff customers of all ages!
 *Guest passes redeemable 5/20/2024 - 12/31/2024



SATURDAY, MAY 18 | 11AM - 2PM | AQUAPLEX COMMUNITY ROOM

Community Engagement

- Earth Day at Bushmaster Park 4/20
- Tourism Commission 4/25
- Friends of Flagstaff Future 4/30
- Friends of the Rio at Shultz Basin 5/2
- ADEQ Roadshow at East Flagstaff Community Library 5/8
- Northern Arizona Climate Change Alliance 5/9
- Airport Commission 5/9
- Community Drop In at Aquaplex 5/18
- ECONA Advisory Committee 5/21

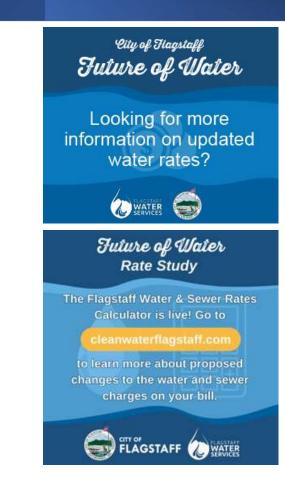
Website Update

- 7,260 site visitors to date
- 4,072 site visitors the last 30 days
- Increased visitation
- Watch past meetings
- Upcoming engagement opportunities
- New resources
- Spanish resource section
- Educational videos
- Posted rate calculator
- Posted draft report and appendices

Total Water & Sewer Charges - Note that the Proposed Water and or Sewer charges may be lower Forecast Time Period* September 1st, 2024 - December 31st, 2025				
Service	Existing		Proposed*	
Total Water Charge	\$	16.64	\$	14.33
Total Sewer Charge	s		\$	10.39
Total	\$	16.64	\$	24.72

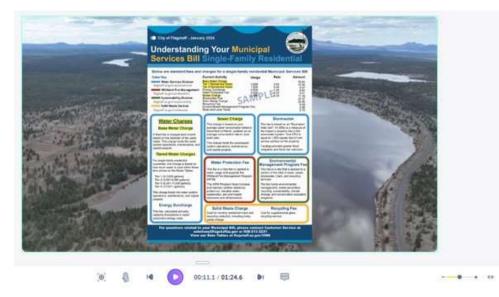
Marketing & Advertising

- Digital Ad Campaign
 - 259,614 total impressions to date
 - 1,353 clicks
 - Began April 17th through May 15th
- Advertising Website and Community Events
 - Digital ads, social media, and radio
 - Printed water bill inserts
 - Flyer distribution at various locations around town



Marketing & Advertising

- Outreach videos
 - Rate change impact on residents
 - Rate change impact on businesses and developers
 - Rate calculator demonstration



Council Discussion

Questions

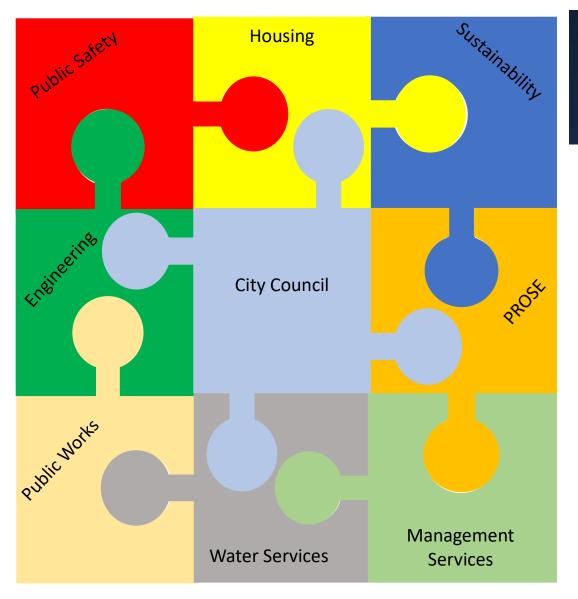
Additional Feeback



Water Rate Study Presentation May 2024







City Services

- Interconnection of services
- Provide services to community
- Rely on each other for support and resources to provide those services
- Policy direction from Council keeps it all together
- Goal to provide a quality of life for all

Introduction to Water Services

- 4 Treatment Plants 2 Drinking Water and 2 Water Reclamation Plants
- 8 Large and 6 Small Drinking Water Storage Tank
- 2 Reclaimed Treated Effluent Storage Tank
- 30 Drinking Water Wells and Pump Houses
- Over 447 miles of Water Distribution lines
- Over 290 miles of Sewer Collection lines
- Over 3,432 Fire Hydrants
- 5 Standpipes 3 Drinking Water and 2 Reclaimed Treated Effluent
- Regulatory Compliance
- Water Sustainability and Conservation
- 97 Staff members

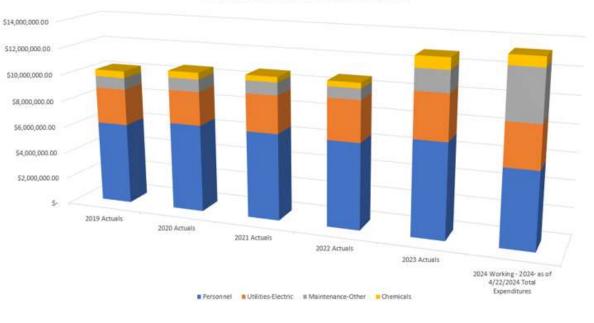
What's included in Operations & Maintenance

- Process Treatment Equipment
- Buildings and materials
- Parts & labor
- Gas, oil and chemicals
- Service vehicles and machinery
- Personnel



General Increases in Costs

- Electrical Costs
- Treatment Chemical Costs
- Costs of Parts
- Personnel



Five Year Cost Escalations in Major Categories

Insufficient Funding Impacts

- Defer repair and replacement of aging infrastructure
- Challenge to maintain technology and facilities
- Lack resiliency and robustness
- Limited personnel resources



Benefits of Funding

- Sustainable use and development of water resources
- Effective water institutions and administrative systems
- Assure water quality and wastewater management
- Invest in repairing and replacing aging infrastructure
- Retain qualified staff to maintain resources



Operations & Maintenance: Water Distribution Lines

Flagstaff averages 6 main breaks per 100 miles of pipe (25 annually)





2023 Clay Avenue

Operations & Maintenance: Sewer Collection Lines

- 290 miles of sewer line
- 8,000 Manholes
- 6 Sanitary Sewer Overflows







Capital Improvements

What do improvements accomplish?

- Address capacity to meet community growth and development
- Fulfill master planning efforts for the future of Flagstaff
- Develop water supply
- Maintain water supply and wastewater collections
- Integrate asset management into Utility infrastructure
- Advance wastewater treatment



Capital Improvement Plan (CIP)

What is a CIP

- Plan includes approved, informed, and unfunded projects
- Plan is conservative
- Dependency on external funding sources
- No capacity for citywide initiatives



CIP - Water

Full Water CIP List

Project	10-Year Project Cost (\$ Millions)	Project	10-Year Project Cost (\$ Millions)
Beaulah/University Waterline Relocation	\$404,103	Inner Basin Line - Schultz to Reservoir Plant	\$8,200,000
Rio Flood Control Project - Waterline	\$2,275,000	Inner Basin Spring Box and Collection Rehab	\$4,200,000
Aging Water Infrastructure Replacements	\$19,966,000	LM Raw Water Pipeline Rehab*	\$16,000,000
Water Vault/PRV Replacement Program	\$2,275,512	Zone B Storage	\$1,050,000
Radio Read Meter Replacements*	\$4,250,000	Lake Mary Dam Repairs	\$250,000
Reserve	\$3,000,000	Red Gap Ranch Hydrogeologic Study	\$300,000
Water System Master Plan	\$284,561	Red Gap Ranch ROW Survey and Mapping	\$150,000
Water Rate Study	\$262,000	Red Gap Ranch Water Quality Study	\$400,000
SCADA Well Upgrades	\$330,000	Railroad Springs #3 Storage Tank	\$1,500,000
New Well and Pumphouse	\$26,248,619	Red Gap Ranch NEPA Environ Impact Study*	\$1,250,000
Coconino Estates - Bundle #4	\$938,807	Red Gap Ranch ROW Acquisition Segments 1-3	\$2,000,000
Lake Mary Sedimentation Basins (Flocculations)	\$12,198,994	Red Gap Ranch Well Completion (10 Wells)	\$450,000
Soliere Waterline 12" Upsizing	\$3,377,150	JW Powell Waterline Oversizing	\$2,300,000
Lake Mary Land Acquisition	\$3,000,000	Pine Del Waterline Upsizing	\$2,500,000
McAllister-Well Design/Construction	\$148,912	Red Gap Ranch Geotechnical Investigation*	\$725,000
Switzer Canyon Transmission Line Phase 4	\$6,823,506	Red Gap Ranch Well Field Piping Design	\$750,000
Switzer Canyon Transmission Line Phase 5	\$7,000,000	Woody Mountain Wellfield Powerline Burial*	\$3,500,000
Fort Tuthill Waterline Loop - Phase 2	\$2,000,000	Fort Valley Shopping Center	\$600,000
Water Energy Efficiency Upgrades	\$500,000	ADOT Cast Iron	\$5,500,000
Water Resources Master Plan	\$145,000	Turquoise WL Replacement	\$1,100,000
First Ave TREX Waterline Replacement	\$249,750	East Side Shop New Building for Equipment Storage	\$1,000,000
Fort Tuthill Well	\$7,592,083	Annual Unfunded project	\$9,000,000
Inner Basin Waterline*	\$16,132,576	Total Water 10-Year CIP	\$182,252,573

*Includes grant funding

CIP - Water Unfunded List

- Lake Mary Treatment Plant Chlorine Dioxide Generator Replacement
- North Reservoir Treatment Plant Filter Rehab
- Tank Rehab
- Diesel Engine Replacement
- Flow Meter Replacement
- Booster Station Rehab
- Wellfield Powerline Burial
- Load Out Station
- Red Gap Pipeline design and construction

CIP - Wastewater

Full Wastewater CIP List

Project	10-Year Project Cost (\$ Millions)		
Beaulah/University Sewer Ext	\$300,000		
Master Plan - Collections	\$400,000		
Energy Efficiency Program	\$206,637		
Rio Two Bar Screens	\$515,917		
Aging Infrastructure Replacements	\$13,000,000		
Reserve for Improvements	\$3,000,000		
Rio de Flag Sewer Relocations	\$4,245,000		
Coconino Estates - Bundle #4	\$875,276		
Wildcat Dewatering Facility	\$6,100,000		
Sewer Rate Study	\$125,000		
First Ave Rte 66 Sewer Replacement	\$500,990		
Country Club Interceptor to WCH	\$12,300,000		
Rio Solids Treatment	\$24,618,500		
Sewer Collection AIR Assessments	\$50,000		
Wildcat New Elect./Fiber Upgrade	\$3,246,000		
Rio de Flag Fiber Upgrade	\$250,000		

Project	10-Year Project Cost (\$ Millions)		
Wildcat Roof Replacement	\$3,000,000		
Wildcat UV Disinfection	\$5,500,000		
Rio Main Motor Control Centers	\$3,600,000		
BNSF Sewer Relocations	\$1,839,141		
Facility Master Plan Update	\$1,150,000		
Headworks Rehab	\$3,000,000		
East Industrial Sewer Improvements	\$520,000		
Sunnyside Trunk Upsizing	\$260,000		
Ponderosa Pkwy - McMillan Mesa	\$400,000		
East Railhead Upsizing	\$500,000		
University Heights Oversizing	\$500,000		
Wildcat Solar Drying Facility	\$3,000,000		
Rio Roof Replacement	\$2,500,000		
Unfunded project estimate	\$20,532,000		
Total Wastewater 10-Year CIP	\$116,034,461		

*This list does not include projects that are funded by G.O. bonds being paid for by property taxes

CIP - Wastewater Unfunded List

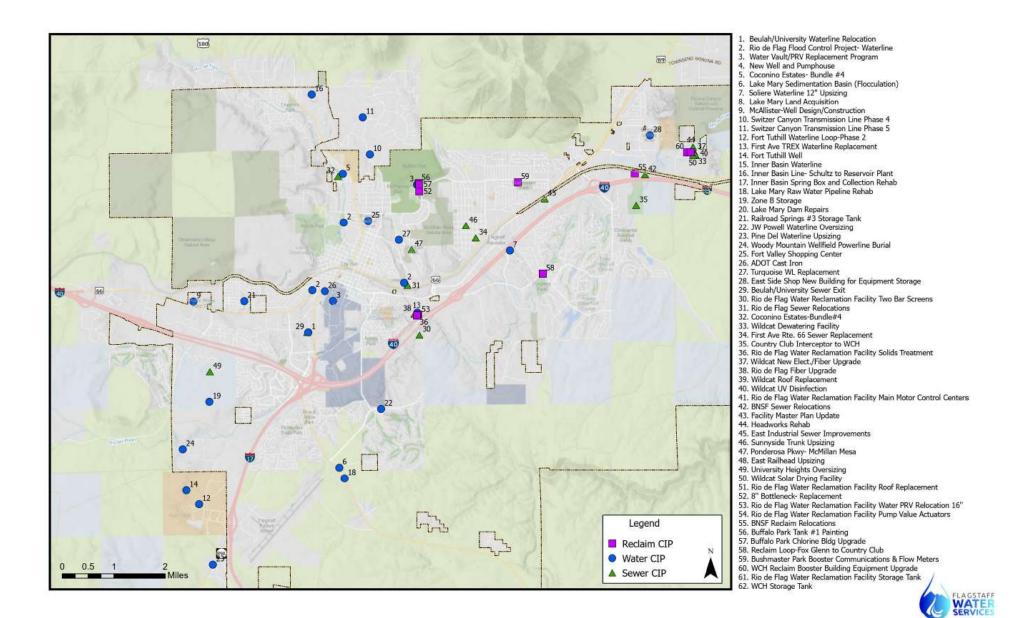
- Influent Grit Removal
- Improved Baffling and Weirs for Secondary Clarifiers
- Add Post Anoxic Zone
- Add Initial Anaerobic Zone
- Septage and Grease Station
- Interceptor (Butler to Country Club)

CIP - Reclaimed

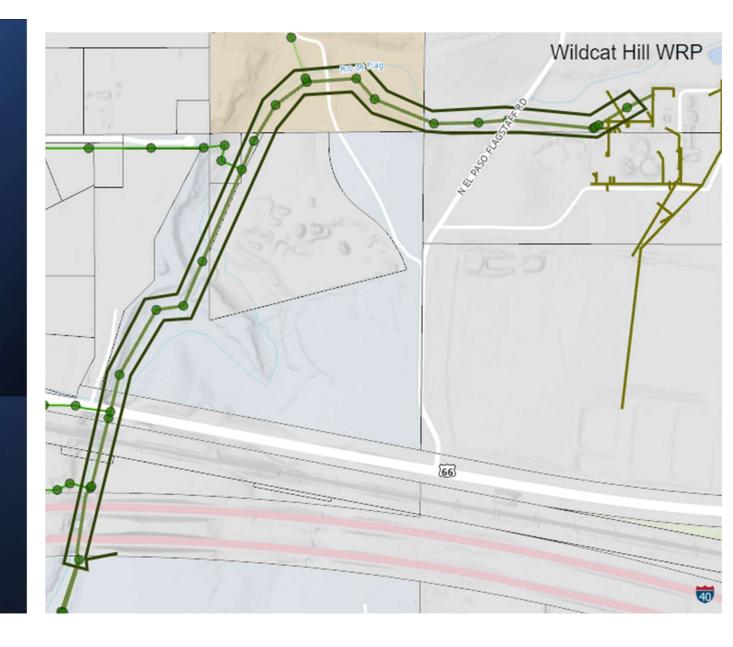
Project	10-Year Project Cost (\$ Millions)
8" Bottleneck - Replacement	\$6,121,983
Rio Reclaim Water PRV Relocation 16"	\$280,000
Rate Study- Reclaimed Portion	\$75,000
Reclaim Water Meters and Vaults	\$225,000
Rio Reclaimed Pump Valve Actuators	\$120,000
AWT Sampling and Testing	\$180,000
Reclaim System PRV/ARV Assessment	\$100,000
BNSF Reclaimed Relocations	\$905,846
Buffalo Park Tank #1 Painting	\$400,000
Buffalo Park Chlorine Bldg Upgrade	\$3,000,000
Reclaim Loop - Fox Glenn to Country Club	\$5,000,000
Bushmaster Park Booster Communications & Flow Meters	\$600,000
WCH Reclaim Booster Building Equipment Upgrade	\$4,000,000
AWT Pilot Project	\$3,000,000
Reclaim Model Projects	\$2,500,000
Rio Storage Tank	\$500,000
WCH Storage tank	\$500,000
Unfunded project estimate	\$29,250,000
Total Reclaimed Water 10-Year CIP	\$56,757,829

CIP - Reclaimed Unfunded List

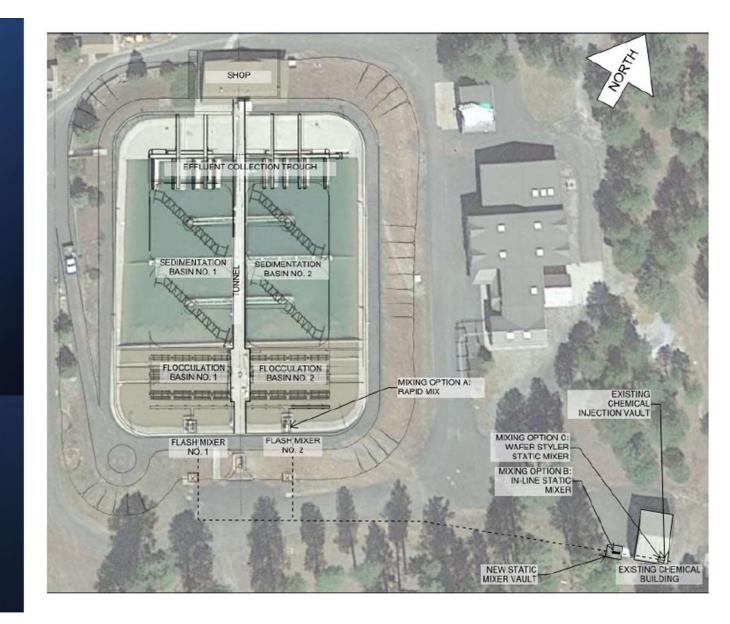
- Bushmaster Booster Station, Pump, and Automatic Valve
- Rio Reclaim Booster Pump Station Upgrades
- Master Radio Tower Rio de Flag
- Cemex and County Yard Flow Monitoring Stations
- Rio Reclaim Distribution System Upgrades
- Water System Expansion Westside



CIP: Wildcat Interceptor Line

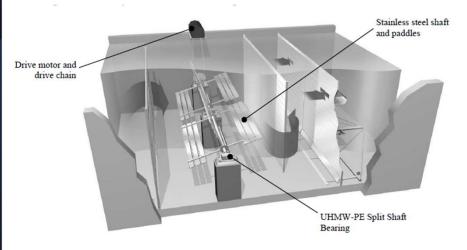


CIP: Lake Mary Sedimentation Basin



CIP: Lake Mary Sedimentation Basin







CIP Funding

Fund		Approved CIP ¹	Approved + Informed CIP ²	Approved + Informed + Unfunded CIP ³
Water	Annual Average	\$13.1	\$19.7	\$20.8
	Total CIP Funding FY24 – FY33	\$130.7	\$196.9	\$207.9
Wastewater	Annual Average	\$8.7	\$10.0	\$12.5
	Total CIP Funding FY24 – FY33	\$86.7	\$99.5	\$124.6
Reclaimed	Annual Average	\$0.5	\$3.3	\$6.9
	Total CIP Funding FY24 – FY33	\$5.2	\$32.8	\$68.6

¹Conforms to anticipated revenues projected by Utility (partial CIP list).

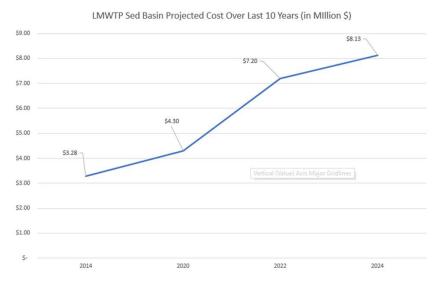
² From complete CIP list informed by Master Plan recommended projects (e.g., Water Infrastructure Master Plan, Sewer Master Plan).

³Needed projects without an identified funding source.

CIP Funding

Impacts of Insufficient Funding

- Value engineer and/or strip components of project
- Consistently reprioritizing projects based on available funding
 - Reduces funding for other projects
 - More projects become underfunded
- Move project(s) to unfunded list
 - Project placed on hold
 - Project is removed from the 5-year plan
 - Postponing projects tends to cost two to three times more



Rate Study Background

- Rates and fees provide funding for operations, maintenance, and capital improvements
- Objectives of the Study
 - Build a financial model
 - Establish a Cost-of-Service
 - Review Rate Structure
 - Adjust rates and fees
- Last rate study was completed in 2015
- Last rate increase went into effect in 2020
- Began discussions with City Council in September 2023
- Public Hearing are scheduled for June 18, and July 2, 2024
- Rate changes effective September 1, 2024

Rate Study Priorities

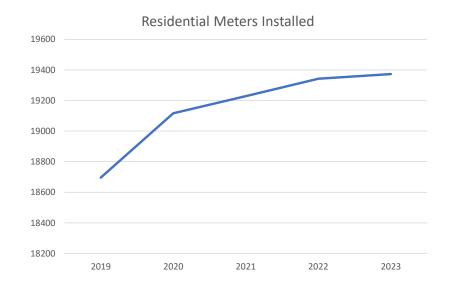
Create sufficient resources through rates to support:

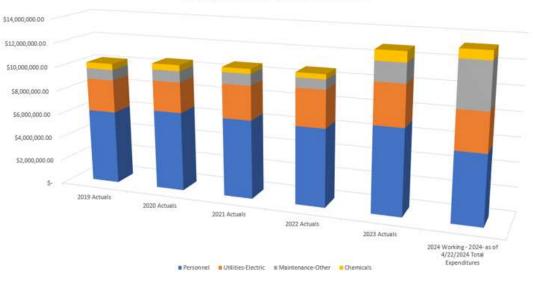
- **Provide High-Quality Water**: Bring clean, safe and reliable water supply by balancing variable supply and customer demand
- **Develop Reliable Sources of Water**: Invest ongoing to maintain three independent water supplies and careful use of natural resources
- Address Aging Water Infrastructure: Reduce increased maintenance costs, ongoing service problems, breakage, and water loss
- Use of Reclaimed Water: Offsets demand for potable water up to 20%
- Fulfill Regulatory Requirements: Produce potable water and reclaimed water within State and Federal guidelines

Rate Study Model Assumptions

Assumption	Details
Growth in Accounts	1.00% annually
Reserve Targets	90 days O&M
Debt Service Coverage	Target: 1.25x Minimum: 1.20x
Debt Service Policy	Annual payment less than or equal to 20% of operating revenues for Water, Wastewater, Reclaimed Water, and Stormwater enterprise funds
Base Operating Budget	"Balanced" O&M budget adjusted to reflect average spending rate, carry- forwards, one-time requests, and operating capital
Cost Escalation Factors	Default inflation factor at 3.5%
	Chemical, Utilities, Equipment Maintenance at 6.00%
CIP Escalation	Full CIP adjusted for 4% annual cost escalation beginning in FY 2025
Funding Sources	Rate revenues, fund balances, debt, grant funding, and capacity fees
Grant Funding	\$21.9M in Water; \$3.2M in Reclaimed Water
Major Projects	Water – Water Supply Security Projects
	Wastewater – Wildcat Hill Wastewater Treatment Plant Design & Expansion

Rate Study Model Assumptions





Five Year Cost Escalations in Major Categories

Water Service has seen an average 3.5% growth in meter installations over the last five years. Financial model assume a 1% growth over the planning period.

Financial Model assumes 3.5% cost escalator, and a 6% for Chemicals, Electrical, and Maintenance (CEM). CEM has seen a 29% cost escalation in these expenses.



Proposed Water Rates

	WATER RATES - Proposed (Fixed Charge)						
	Current Fixed Charge	September 1st, 2024 - December 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029	
Meter Size:	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	
0.75	\$16.64	\$14.33	\$16.48	\$18.96	\$21.80	\$25.07	
1	\$19.60	\$19.86	\$22.83	\$26.26	\$30.20	\$34.73	
1.5	\$26.98	\$33.66	\$38.71	\$44.52	\$51.19	\$58.87	
2	\$35.84	\$50.23	\$57.76	\$66.42	\$76.39	\$87.85	
3	\$56.52	\$102.68	\$118.09	\$135.80	\$156.17	\$179.59	
4	\$86.05	\$144.10	\$165.71	\$190.57	\$219.15	\$252.03	
6	\$159.88	\$364.97	\$419.72	\$482.67	\$555.08	\$638.34	
8	\$248.47	\$447.80	\$514.97	\$592.21	\$681.05	\$783.20	
10	\$351.83	\$1,165.64	\$1,340.48	\$1,541.55	\$1,772.79	\$2,038.71	

	WATER RATES - Proposed (Volume)							
		Current Volume Charge	September 1st, 2024 - December 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029	
POTAB	LE WATER: (per 1,000 gallons)		Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	
Single Family	Tier 1 (0 - 3,500 gallons)	\$3.44	\$4.39	\$ 5.04	\$ 5.80	\$ 6.67	\$ 7.67	
	Tier 2 (3,501 - 6,200 gallons)	\$4.45	\$4.72	\$ 5.42	\$ 6.24	\$ 7.17	\$ 8.25	
	Tier 3 (6,201 - 11,500 gallons)	\$6.86	\$9.43	\$ 10.85	\$ 12.47	\$ 14.34	\$ 16.50	
	Tier 4 (11,501+ gallons)	\$13.72	\$18.86	\$ 21.69	\$ 24.95	\$ 28.69	\$ 32.99	
Multi-Family		\$4.42	\$4.97	\$ 5.72	\$ 6.57	\$ 7.56	\$ 8.69	
Commercial/Schools		\$4.69	\$5.88	\$ 6.76	\$ 7.78	\$ 8.94	\$ 10.29	
Institutional		\$4.30	\$5.88	\$ 6.76	\$ 7.78	\$ 8.94	\$ 10.29	
Manufacturing		\$4.63	\$5.56	\$ 6.39	\$ 7.35	\$ 8.45	\$ 9.72	
Landscaping/Lawn Meters		\$4.69	\$10.51	\$ 12.09	\$ 13.90	\$ 15.99	\$ 18.39	
Hydrant Meter		\$7.17	\$7.60	\$ 8.74	\$ 10.05	\$ 11.56	\$ 13.29	
Standpipe**		\$9.56	\$7.55	\$ 8.68	\$ 9.98	\$ 11.48	\$ 13.20	

Proposed Sewer Rates

SI	SEWER RATES - Proposed (Fixed Charge)						
	September 1st, 2024 December 31st, 2025	and the second se	January 1st, 2027 - December 31st, 2027	Card and the second			
Meter Charge	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits		
0.75	\$10.39	\$12.99	\$14.94	\$16.43	\$17.25		
1	\$17.32	\$21.65	\$24.90	\$27.39	\$28.76		
1.5	\$34.63	\$43.29	\$49.78	\$54.76	\$57.50		
2	\$55.41	\$69.26	\$79.65	\$87.62	\$92.00		
3	\$121.22	\$151.53	\$174.25	\$191.68	\$201.26		
4	\$173.17	\$216,46	\$248.93	\$273.83	\$287.52		
6	\$346.33	\$432.91	\$497.85	\$547.63	\$575.02		
8	\$554.13	\$692.66	\$796.56	\$876.22	\$920.03		

SEWER RATES - Proposed (Volume)

	September 1st, 2024 December 31st, 2025		January 1st, 2027 - December 31st, 2027		
SEWER: (per 1,000 gallons)	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits
Residential					T
Residential	\$5.50	\$6.88	\$7.91	\$8.70	\$9.13
Non-Residential					
Non-Residential A	\$4.45	\$5.56	\$6.40	\$7.04	\$7.39
Non-Residential B	\$7.05	\$8.81	\$10.13	\$11.15	\$11.71
Non-Residential C	\$29.96	\$37.45	\$43.07	\$47.37	\$49,74

*Residential usage based on WQA (usage billed in winter months of December, January, February, March)

Proposed Reclaimed Rates

RECLAIMED WATER RATES - Proposed (Fixed Charge)						
	Current Fixed Charge	September 1st, 2024 - December 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029
Meter Size:		Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits
0.75	\$16.64	\$14.33	\$16.48	\$18.96	\$21.80	\$25.07
1	\$19.60	\$19.86	\$22.83	\$26.26	\$30.20	\$34.73
1.5		\$33.66	\$38.71	\$44.52	\$51.19	\$58.87
2	\$35.84	\$50.23	\$57.76	\$66.42	\$76.39	\$87.85
3	\$56.52	\$102.68	\$118.09	\$135.80	\$156.17	\$179.59
4	\$86.05	\$144.10	\$165.71	\$190.57	\$219.15	\$252.03
6	\$159.88	\$364.97	\$419.72	\$482.67	\$555.08	\$638.34
8	\$248.47	\$447.80	\$514.97	\$592.21	\$681.05	\$783.20
10	\$351.83	\$1,165.64	\$1,340.48	\$1,541.55	\$1,772.79	\$2,038.71

	RECLAIMED WATER RATES - Proposed (Volume)							
		Current Volume Charge	September 1st, 2024 - December 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029	Percent of Potable Water Rate
RECLAIMED	WATER: (per 1,000 gallons)		Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits
	Tier 1 (0 - 3,500 gallons)	\$1.63	\$1.97	\$2.20	\$2.46	\$2.77	\$3.12	
Private Residential	Tier 2 (3,501 - 6,200 gallons)	\$1.99	\$2.08	\$2.33	\$2.62	\$2.94	\$3.32	35%
Private Residential	Tier 3 (6,201 - 11,500 gallons)	\$2.83	\$3.73	\$4.23	\$4.80	\$5.45	\$6.21	3576
	Tier 4 (11,501+ gallons)	\$5.24	\$7.04	\$8.03	\$9.17	\$10.47	\$11.98	
Commercial (no main Ext	:):	\$2.08	\$2.49	\$2.80	\$3.16	\$3.56	\$4.03	35%
Commercial (w/ main Ext):	\$4.44	\$5.34	\$6.00	\$6.76	\$7.64	\$8.64	75%
Manufacturing (no main E	Ext):	\$2.05	\$2.38	\$2.67	\$3.01	\$3.39	\$3.83	35%
Manufacturing (w/ main E	xt):	\$4.40	\$5.10	\$5.72	\$6.44	\$7.27	\$8.22	75%
NAU (No main extension)	C	\$1.94	\$2.49	\$2.80	\$3.16	\$3.56	\$4.03	35%
NAU (with main extension	n):	\$4.16	\$5.34	\$6.00	\$6.76	\$7.64	\$8.64	75%
Hydrant Meter	2	\$4.21	\$4.42	\$4.99	\$5.65	\$6.40	\$7.27	50%
Standpipe		\$4.79	\$4.39	\$4.96	\$5.61	\$6.36	\$7.22	50%
Off Peak/Golf Course*		\$1.81	\$2.17	\$2.44	\$2.75	\$3.10	\$3.51	87%
Rate is 87% of the Commerc	ial (no main extension) reclaimed wat	ter rate						

Capacity Fees

WATER						
Meter Size	ERU Factor	Existing Fee	Proposed Fee			
3/4"	1.0	\$5,728	\$8,266			
1"	1.67	\$9,566	\$13,804			
1 1⁄2"	3.33	\$19,074	\$27,526			
2"	5.33	\$30,530	\$44,058			
3"	10.00	\$57,279	\$82,660			
4"	16.67	\$95,484	\$137,795			
6"	33.33	\$190,910	\$275,506			
8"	53.33	\$305,468	\$440,827			
10"	76.67	\$439,157	\$633,756			

WASTEWATER

Meter Size*	Existing Fee	ERU Factor	Proposed Fee
3/4"	\$3,723	1.0	\$4,086
1"	\$6,218	1.67	\$6,824
1 1⁄2"	\$12,399	3.33	\$13,608
2"	\$19,845	5.33	\$21,780
3"	\$37,233	10.00	\$40,863
4"	\$62,068	16.67	\$68,120
6"	\$124,099	33.33	\$136,198
8"	\$198,566	53.33	\$217,927
10"	\$285,468	76.67	\$313,302

Miscellaneous Fees

- Water Meter Installations
- Water and Sewer Tap Fees
- Service Charges
 - Establishment
 - Non-Payment
 - Meter Testing
 - Backflow Prevention Permit
 - Backflow Compliance
 - Malicious Damage

- Sewer Fees
 - Industrial Pre-Treatment Discharge
 - Septage
 - Restaurant Grease
 - Mud Sump
 - After Hours Dumping
 - Scavenger Waste Permit
- High Strength Waste Surcharge

Rate Calculator Demonstration

https://cleanwaterflagstaff.com/rate-calculator

Below are standard fees and charges for a Single-Family Residential Municipal Services Bill.

The 2024 Rate Study is evaluating the base meter charge, tiered water charges, and sewer charge for adjustments required to meet the cost of service. See the "Understanding Your Municipal Services Bill" factsheet for an explanation of all items listed.

Current Activity	Usage	Rate	Amount
Base Meter Charge	-		16.64
Tier 1 Residential Water	3,500	\$3.44	12.04
Tier 2 Residential Water	1,050	\$4.45	4.67
Energy Surcharge	4,550	\$1.24	5.64
Water Protection Fee	4,550	\$0.53	2.41
Sewer Charge	2,090	\$5.35	11.18
Stormwater Fee			12.57
Solid Waste Charge			25.45
Recycling Fee			5.09
Environmental Management Pro	ogram Fee		2.48
State and Local Taxes			3.73
Total			\$101.90

Water

Enter information from your Municipal Services Statement in the orange highlighted spaces below, or you can estimate your water use and meter size from the list below. Most residents have a 3/4" meter size.

Enter Monthly Usage in Gallons (for residential, add up usage over the different tiers, or use the value from "Energy Surcharge" similar to how shown in this example):

Current Activity	Usage				-
Base Meter Charge Tier 1 Residential Water	3.500				
Tier 2 Residential Water	1,050				
Energy Surcharge	4,550				
Enter Monthly Base Mete	er Charge from y	our bill:			\$16.64
Enter your customer class:				Institutional	
New Proposed Customer	Class (if applical	ble)		Commercial/Sc	hools
Amount		Existing		Proposed	
Water Base Charge		\$	16.64	\$	14.33
Water Volume Charge		\$		\$	8
Total Water Charge		s	16.64	s	14.33

Rate Calculator – Residential Example

- Residential customer who usage is 4,577 gallon
- Current monthly bill \$51.30 (Water \$33.47, Sewer \$17.83)
- Year 1 bill \$63.48 (Water \$34.76, Sewer \$28.72)
- Year 2 bill \$75.88 (Water \$39.98, Sewer \$35.90)
- Year 3 bill \$87.26 (Water \$45.97, Sewer \$41.29)
- Year 4 bill \$98.29 (Water \$52.87, Sewer \$45.42)
- Year 5 bill \$108.49 (Water \$60.80, Sewer \$47.69)

Rate Calculator – Commercial Example

- Commercial customer who usage is 51,750
- Currently monthly bill \$553.29 (Water \$259.35, Sewer \$293.94)
- Year 1 bill \$559.33 (Water \$318.65, Sewer \$240.68)
- Year 2 bill \$667.30 (Water \$366.45, Sewer \$300.85)
- Year 3 bill \$767.39 (Water \$421.42, Sewer \$345.97)
- Year 4 bill \$865.20 (Water \$484.63, Sewer \$380.57)
- Year 5 bill \$956.53 (Water \$557.33, Sewer \$399.60)

Rate Study Council Direction

Minimizing the Impact to the Rate Payer:

- Utilized Actual Flow Data versus Design Flow Data to minimize Capacity Fee increase
- ✓ Added Solids Loading component to the Capacity Fee calculation to minimize impact to new developments and align costs to those producing higher solids
- ✓ Reduced revenue recovered from Water Base Fee from 29% to 25% to empower water users to have more control over their bill
- ✓ Assumed a 90% execution rate of operating budget
- Adjusted Residential Tier Rates to reduce bills for water smart customers in both Tier 1 and Tier 2
- Consolidated Customer Classes to make the structure simpler and reduced rate increases in some cases
- ✓ Adjusted Other Miscellaneous Fees so those receiving services pay those costs and it is not passed on to the rate payer

Council Discussion

Questions

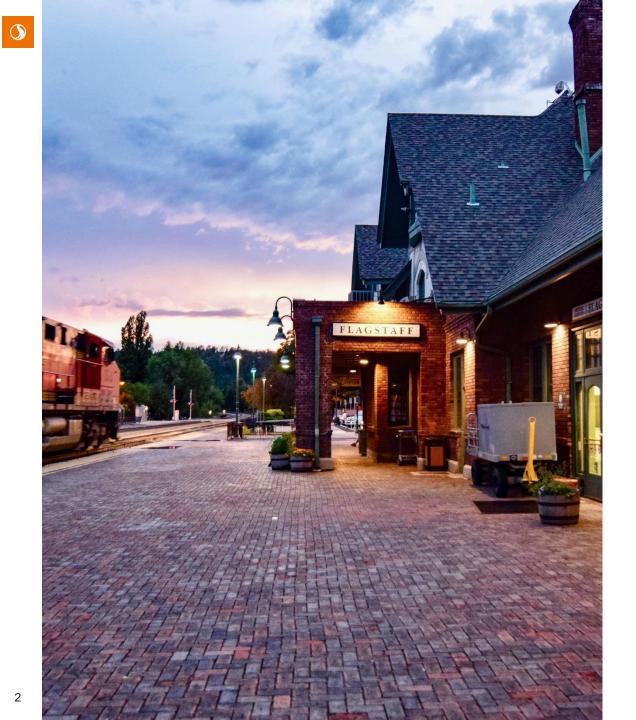
Additional Feeback





City of Flagstaff, AZ Water, Reclaimed Water, & Wastewater Cost-of-Service Study Financial Planning Scenarios

City Council Work Session May 16, 2024



Financial Planning Scenarios

- Growth
- Escalation
- Percentage of Debt
- Capital Execution

Key Financial Assumptions & Adjustments

Assumption	Details
Growth	1.00% annually
Reserve Targets	90 days O&M
Debt Service Coverage	Target: 1.25x Minimum: 1.20x
Debt Service Policy	Annual payment less than or equal to 20% of operating revenues for Water & Wastewater; Reclaimed Water and Stormwater enterprise funds included
Base Operating Budget	"Balanced" O&M budget adjusted to reflect average spending rate, carry- forwards, one-time requests, and operating capital
Cost Escalation Factors	Default inflation factor at 3.5%
	Chemical, Utilities, Equipment Maintenance at 6.00%
CIP Escalation	Full CIP adjusted for 4% annual cost escalation beginning in FY 2025
Funding Sources	Rate revenues, fund balances, debt, grant funding, and capacity fees
Grant Funding	\$21.9M in Water; \$3.2M in Reclaimed Water
Major Projects	Water – Water Supply Security Projects
	Wastewater – Wildcat Hill Wastewater Treatment Plant Design & Expansion

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Borrowing Funds for Capital Improvements

Notes about debt

- Total debt subject to City policy that was adopted to include four enterprise funds: Water, Wastewater, Reclaimed Water, and Stormwater
- What is optimal amount of debt?
 - City policy
 - Bond rating agencies look at multiple factors
 - Fitch Rating agency metrics for highly rated water & sewer utilities (AAA, AA, A)
 - Percent of CIP funded with debt = 36%
 - Debt Service Coverage (DSC) ratios = 2.4X
 - All in Debt Service payments as % of gross revenues = 18%
- Favorable bond ratings generally lead to lower interest rates = rate payer savings

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Growth in Accounts

Growth in Accounts

What does growth influence in rate models?

- Rate revenues
- Capacity fee revenues
- Lower growth = less revenue from proposed rates
 - Increase rates to recover same revenue requirements
 - Holding proposed rates constant, increase debt to fund full CIP
- Higher growth = more revenue from proposed rates
 - Decrease rates to recover same revenue requirements
 - · Holding proposed rates constant, less debt needed to fund full CIP
- Current rate model assumption: 1% account growth per year
 - 2023 Report to the Water Commission water production change 1.15% per year
 - Regional Plan 2030 population growth ranges from 0.8% to 1.3% annually
 - 3.5% increase in meter installations from FY 2019 to FY 2023 ~0.7% annually

Water Fund FAMS Control Panel – Reduced Growth (0.5%)

Financial Analysis & Management System By Stantec											CALC SAVE CTRL	Stantec	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2029	FY 2033
Water Rate Plan Last Plan		0.00% 0.00%	15.00% 15.00%	15.00% 15.00%	15.00% 15.00%	15.00% 15.00%	15.00% 15.00%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	101.20% 101.20%	144.59% 144.59%
All-In DSC Last Plan	1.89 1.89	3.05 3.01	2.49 2.40	2.62 2.39	2.61 2.28	3.34 2.81	3.64 2.98	4.20 3.30	4.14 3.12	4.05 2.96	4.45 3.06	Total Debt Current Plan Total Debt Last Plan	\$54.95 \$78.94
Total Funded O&M Total Funded CIP Combined DS %	\$14.747 \$4.606 13.7% ↑ Insert New F	\$13.250 \$28.954 21.7% Panel Controls	\$16.380 \$22.660 17.1% Above this R		\$16.712 \$19.843 20.9%	\$17.475 \$11.032 19.8%	\$18.189 \$27.959 16.6%	\$18.934 \$17.183 15.4%	\$19.711 \$28.727 15.2%	\$20.524 \$14.069 15.0%	\$21.372 \$22.460 14.0%	Average CIP	\$20.36

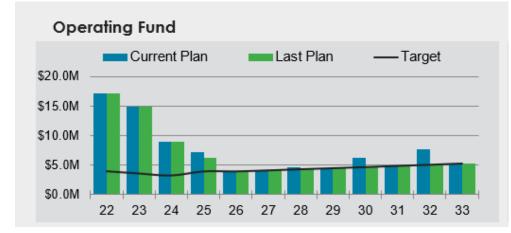
Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 0.5% Growth (rates held constant, borrowing adjusted)

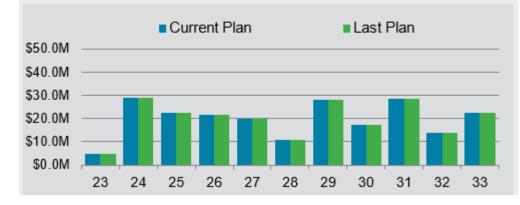
DRAFT – FOR DISCUSSION PURPOSES

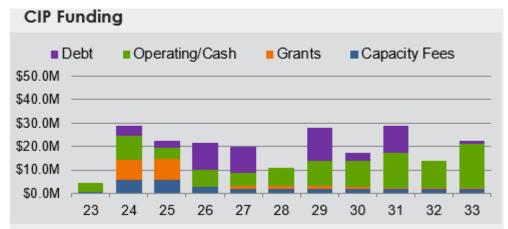
Estimated borrowing

Water Fund FAMS Control Panel – Reduced Growth (0.5%)



CIP Spending







Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 0.5% Growth (rates held constant, borrowing adjusted)

Impact of Growth on Borrowing

*Hel	d Constant: Rate Pla	an & CIP	Annual Rate Increase								
	Total CIP (FY 25 – FY 33)	Total CIP from Debt (FY 25 –	Proceeds	5 FY 25	FY 26	FY 27	FY 28	FY 29			
1% Growth		\$54.9M	(30%)	15%	15%	15%	15%	15%			
0.5% Growth	\$185.6M	\$78.9M	(43%)	15%	15%	15%	15%	15%			
1.25% Growth		\$46.0M	(25%)	15%	15%	15%	15%	15%			
1% Growth		\$24.0M	(21%)	25%	25%	15%	10%	5%			
0.5% Growth	\$112.6M	\$27.7M	(25%)	25%	25%	15%	10%	5%			
1.25% Growth		\$22.2M	(20%)	25%	25%	15%	10%	5%			
Water Factors	Water Factors Wastewater Factors					% CIP funded w-Debt					

Impact of Growth on Rates

*Hel	d Constant: Rate Pl	an & CIP		Annual Rate Increase						
	Total CIP (FY 25 – FY 33)	Total CIP from Debt (FY 25 –	Proceeds	FY 25	FY 26	FY 27	FY 28	FY 29		
1% Growth		\$54.9M	(30%)	15%	15%	15%	15%	15%		
0.5% Growth	\$185.6M	\$54.3M	(29%)	17.50%	17.50%	17.50%	17.50%	17.50%		
1.25% Growth		\$54.6M	(29%)	14.00%	14.00%	14.00%	13.50%	13.50%		
1% Growth		\$24.0M	(21%)	25%	25%	15%	10%	5%		
0.5% Growth	\$112.6M	\$24.7M	(22%)	28%	28%	15%	10%	5%		
1.25% Growth		\$24.2M	(21%)	23%	23%	15%	10%	5%		
Water Factors	Wastew	ater Factors	6	% CIP funded w-Debt						



Cost Escalation Factors

Cost Escalation Factors

What do cost escalation factors influence in rate models?

- Operating expenses forecast
- Future capital improvement expenses

What impacts do we see?

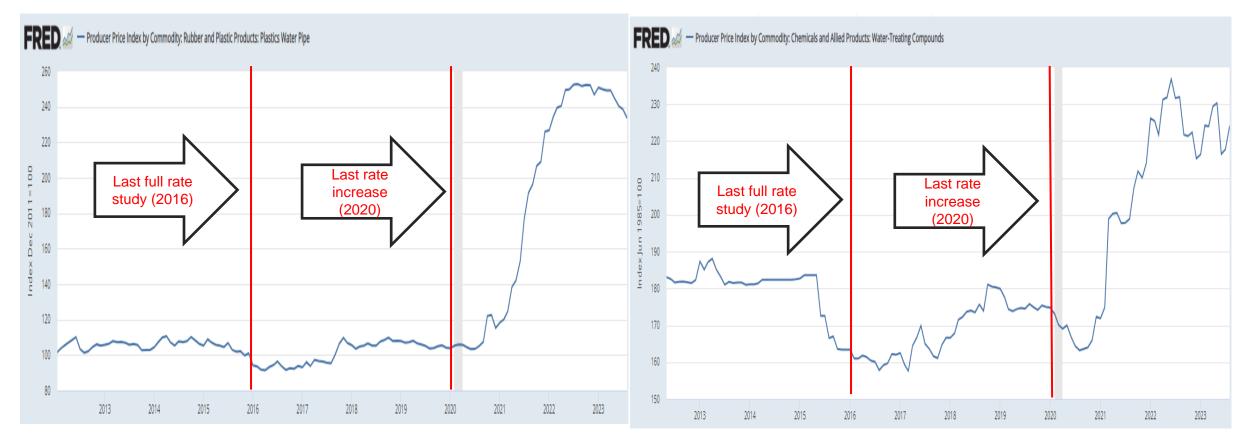
- Total debt to fund full CIP
- Rate projections

References for cost escalation factors

- Philadelphia Federal Reserve Bank Headline CPI forecast: 2023 2032 = 2.4%
- For capital improvements, Engineering News Record Construction Cost Index = 4%
- Recent changes in production cost increases
- Actual Water Services expenses forecast = 3.5%

				WATER	FUND	WASTEWA	TER FUND
		Annual		FY24 Budget	Percent of	FY24 Budget	Percent of
Factor	Notes	Inflation	Used in Model	(\$M)	Budget	(\$M)	Budget
Default Operating	7% average in actual O&M from FY19-23	7.0%	3.5%				
	Water Pipe Maintenance index: Up 132% from Jan 2020	37.7%	5.5%	\$11.29	77%	of FY24 Budget	75%
Chemicals, Maintenance,	29% increase in costs over 5 years	5.8%	6.0%				
Vehicle and Other	National Water Treatment Chemical Index: Up 31% from Jan 2020	8.9%	0.0%	\$3.43	23%	\$1.93	25%
<u>CIP</u>			/				
General Construction	Up 33% from January 2020 to June 2023	9.4%	/				
Industrial Construction	Up 40% from January 2020 to June 2023	11.4%	4%				
Engineering News Record Construction Cost Index	Average Change: Dec 2019 - Dec 2023	3.8%					

Operations/Material Cost Inflation: 2020-2024



National Commodity Index – Plastic Water Pipe

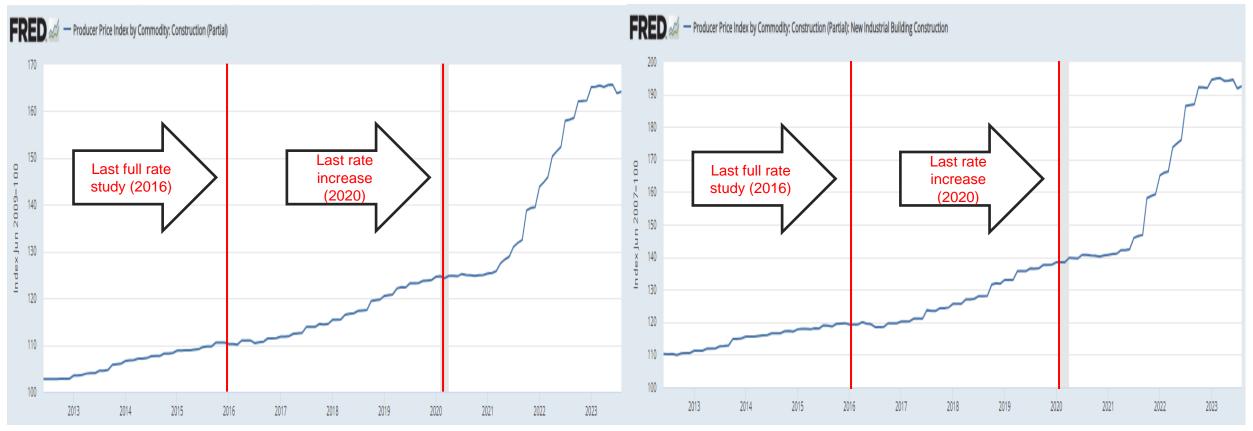
Up 132% from Jan 2020 to June 2023

National Water Treatment Chemical Index

Up 31% from Jan 2020 to June 2023

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Construction Cost Inflation: 2020-2024



National Cost Index – Construction

- General Construction Up 33% from Jan 2020 to June 2023
- Industrial Construction Up 40% from Jan 2020 to June 2023
- Last rate increase was in 2020

Water Fund FAMS Control Panel – Reduced Escalation Factor (2.4%) and Rate Projections

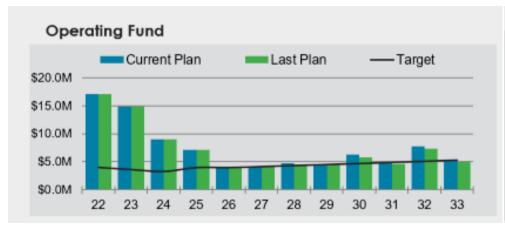
Financial Analysis & Managemen	ETAMS CITY OF FLAGSTAFF WATER FUND											CALC SAVE CTRL	Stantec	
		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2029	FY 2033
٧	Water Rate Plan Last Plan	0.00% 0.00%	0.00% 0.00%	15.00% 14.25%	15.00% 14.25%	15.00% 14.25%	15.00% 14.25%	15.00% 14.25%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	101.20% 94.71%	144.59% 136.72%
	All-In DSC Last Plan	1.89 1.89	3.05 3.05	2.49 2.50	2.62 2.64	2.61 2.62	3.34 3.32	3.64 3.59	4.20 4.13	4.14 4.08	4.05 4.01	4.45 4.41	Total Debt Current Plan Total Debt Last Plan	\$54.95 \$55.48
T	Total Funded O&M Total Funded CIP Combined DS %	\$14.747 \$4.606 13.7% † Insert New F	\$13.250 \$28.954 21.7% Panel Controls	\$16.380 \$22.660 17.1% Above this R		\$16.712 \$19.843 20.9%	\$17.475 \$11.032 19.8%	\$18.189 \$27.959 16.6%	\$18.934 \$17.183 15.4%	\$19.711 \$28.727 15.2%	\$20.524 \$14.069 15.0%	\$21.372 \$22.460 14.0%	Average CIP	\$20.36

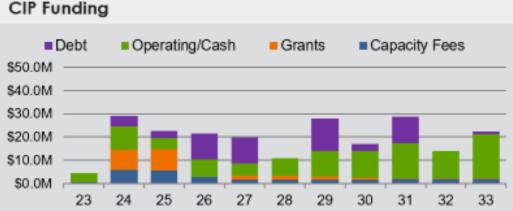
Rate Projections

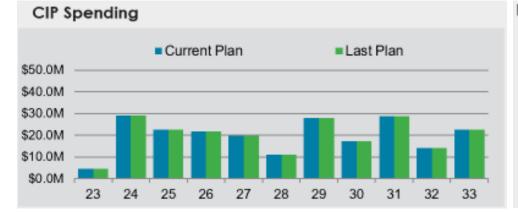
Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

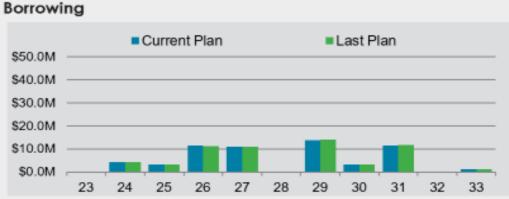
Last Plan = Results with 2.4% Escalation Factor (borrowing held constant, rates adjusted)

Water Fund FAMS Control Panel – Reduced Escalation Factor (2.4%) and Rate Projections









Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 2.4% Escalation Factor (borrowing held constant, rates adjusted)

Cost Escalation Impact on Rate Projections

*He	eld Constant: CIP	& Debt		Annua	al Rate Inc	crease	
	Total CIP (FY 25 – FY 33)	Total CIP Funding from Debt Proceeds (FY 25 – FY 33)	FY 25	FY 26	FY 27	FY 28	FY 29
Current (3.5%)	\$185.6M	\$54.9M (30%)	15%	15%	15%	15%	15%
2.4%	\$185.6M	\$55.5M (30%)	14.25%	14.25%	14.25%	14.25%	14.25%
4.5%	\$185.6M	\$54.8M (30%)	15.75%	15.75%	15.75%	15.50%	15.50%
Current (3.5%)	\$112.6M	\$24.0M (21%)	25%	25%	15%	10%	5%
2.4%	\$112.6M	\$24.3M (22%)	24%	24%	15%	10%	2.5%
4.5%	\$112.6M	\$24.0M (21%)	25.75%	25.75%	15.00%	10.00%	10.00%

Water Factors Wastewater Factors



Debt Factors

Increased Percentage of Debt

What does the percentage of debt influence in rate models?

- Rate projections
- Capital projects funding

What impacts do we see?

- Lower typical bills
- Increased percentage of debt funding for capital projects

Projected Debt Financed Projects

Project	FY 2025 – FY 2033 Project Cost
Switzer Canyon Transmission Line Phase 5	\$7,000,000
Fort Tuthill Well	\$6,820,000
Inner Basin Line - Schultz to Reservoir Plant	\$8,200,000
LM Raw Water Pipeline Rehab	\$4,950,000
Zone B Storage	\$1,000,000
Red Gap Ranch ROW Acquisition Segments 1-3	\$2,000,000
JW Powell Waterline Oversizing	\$2,300,000
Pine Del Waterline Upsizing	\$2,500,000
Red Gap Ranch Geotechnical Investigation	\$125,000
Woody Mountain Wellfield Powerline Burial	\$2,000,000
Fort Valley Shopping Center	\$600,000
ADOT Cast Iron	\$5,500,000
Turquoise WL Replacement	\$1,100,000
East Side Shop New Building for Equipment Storage	\$700,000
LM Raw Water Pipeline Rehab	\$4,950,000
Annual Unfunded project	\$9,000,000

Water Fund FAMS Control Panel – Increased Borrowing and Rate Projections

Financial Analysis & Management System By Starnfec	EXAMPLE & Martagement System By Startlec CITY OF FLAGSTAFF WATER FUND												
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2029	FY 2033
Water Rate Plan Last Plan	0.00% 0.00%	0.00% 0.00%	15.00% 10.00%	15.00% 10.00%	15.00% 10.00%	15.00% 10.00%	15.00% 10.00%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	5.00% 5.00%	101.20% 61.00%	144.59% 95.73%
All-In DSC Last Plan	1.89 1.89	3.05 3.05	2.49 2.21	2.62 2.12	2.61 1.88	3.34 2.11	3.64 2.03	4.20 2.10	4.14 1.91	4.05 1.77	4.45 1.79	Total Debt Current Plan Total Debt Last Plan	\$54.95 \$103.62
Total Funded O&M Total Funded CIP Combined DS %	\$14.747 \$4.606 13.7% † Insert New F	\$13.250 \$28.954 21.7% Panel Controls	\$16.380 \$22.660 17.1% Above this Rot	\$16.026 \$21.621 20.9%	\$16.712 \$19.843 20.9%	\$17.475 \$11.032 19.8%	\$18.189 \$27.959 16.6%	\$18.934 \$17.183 15.4%	\$19.711 \$28.727 15.2%	\$20.524 \$14.069 15.0%	\$21.372 \$22.460 14.0%	Average CIP	\$20.36

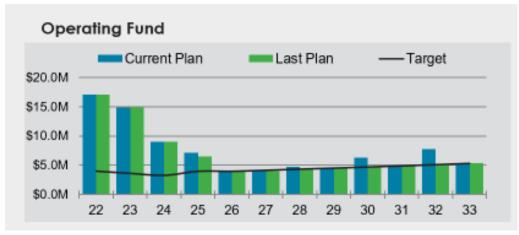
Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 5% Rate Plan Reduction (borrowing adjusted)

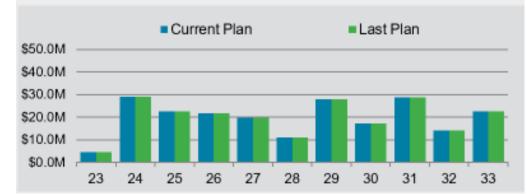
DRAFT – FOR DISCUSSION PURPOSES

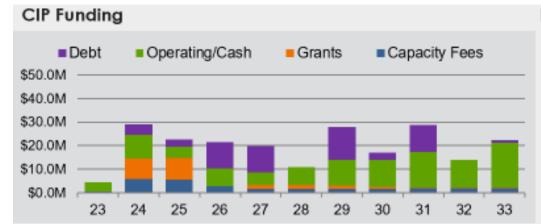
Estimated borrowing

Water Fund FAMS Control Panel – Increased Borrowing and Rate Projections



CIP Spending







Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 5% Rate Plan Reduction (borrowing adjusted)

Increased Borrowing Impact on Rate Projections

	*Held Constant: (CIP	Annual Rate Increase						
	Total CIP (FY 25 – FY 33)	Total CIP Funding from Debt Proceeds (FY 25 – FY 33)	FY 25	FY 26	FY 27	FY 28	FY 29		
Current	\$185.6M	\$54.9M <mark>(30%)</mark>	15%	15%	15%	15%	15%		
Increased Borrowing	\$185.6M	\$103.6M (56%)	10%	10%	10%	10%	10%		
Current	\$112.6M	\$24.0M (21%)	25%	25%	15%	10%	5%		
Increased Borrowing	\$112.6M	\$34.0M (30%)	20%	20%	15%	10%	5%		

Water Factors

Wastewater Factors

% CIP & Rate Projections



CIP Execution Factors

CIP Execution Reduction

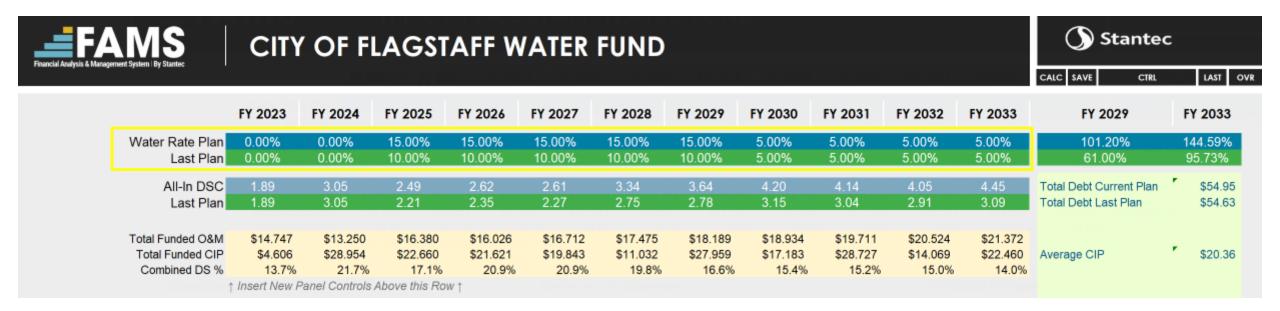
What does the CIP execution percentage influence in rate models?

- Capital improvement plan spending
- Revenue requirements

What impacts do we see?

- Capital improvements cut
- Lower typical bills
- Less borrowing (primarily for wastewater fund)

Water Fund FAMS Control Panel – Capital and Rate Reduction

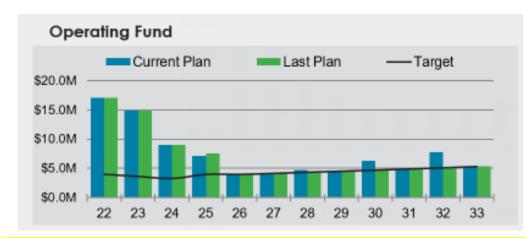


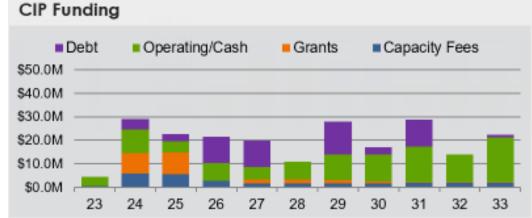
Rate Projections

Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

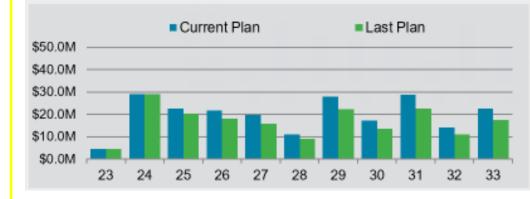
Last Plan = Results with 5% Rate Plan Reduction & 78% CIP Execution (borrowing held constant)

Water Fund FAMS Control Panel – Capital and Rate Reduction





CIP Spending





Water Rate Plan (Current Plan) = Proposed Rates with Full CIP Funding

Last Plan = Results with 5% Rate Plan Reduction & 78% CIP Execution (borrowing held constant)

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Reduced CIP Execution Impact on Rate Projections

*Held	Constant: Curre	nt Debt	Annual Rate Increase							
	Total CIP Funding from Debt Proceeds (FY 25 – FY 33)	Total CIP Funding (FY 25 – FY 33)	FY 25	FY 26	FY 27	FY 28	FY 29			
Current Rate Plan			15%	15%	15%	15%	15%			
CIP Execution Percentage	\$54.9M	\$185.6M (30%)	100%	100%	100%	100%	100%			
5% Rate Reduction		\$150.2M (36%) (Reduction of \$35.4M)	10%	10%	10%	10%	10%			
CIP Execution Percentage	\$54.6M		78%	78%	78%	78%	78%			
Current			25%	25%	15%	10%	5%			
CIP Execution Percentage	\$24.0M	\$112.6M (21%)	100%	100%	100%	100%	100%			
5% Rate Reduction		\$91.2M (21%)	20%	20%	10%	5%	5%			
CIP Execution Percentage	\$19.02M	(Reduction of \$21.4M)	81%	81%	81%	81%	81%			

Water Factors

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Wastewater Factors

CIP & Rate Projections



Projected Bill Impacts

Water Rate Structure – CIP Reduction Rate Projections

- CIP Reduction average \$4M per year
- Rate Projection 5% reduction
- Total Bill = Fixed Monthly Meter Charge + Volume Charge

WATER RATES - CIP Reduction (Fixed Charge)												
			January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029							
Meter Size:	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits							
0.75	\$14.01	\$15.41	\$16.95	\$18.65	\$20.51							
1	\$18.67	\$20.54	\$22.59	\$24.85	\$27.33							
1.5	\$30.30	\$33.33	\$36.66	\$40.33	\$44.36							
2	\$44.27	\$48.70	\$53.57	\$58.92	\$64.82							
3	\$88.50	\$97.35	\$107.09	\$117.79	\$129.57							
4	\$123.41	\$135.75	\$149.33	\$164.26	\$180.68							
6	\$309.62	\$340.58	\$374.64	\$412.10	\$453.31							
8	\$379.45	\$417.40	\$459.13	\$505.05	\$555.55							
10	\$984.64	\$1,08 .10	\$1,191.41	\$1,310.56	\$1,441.61							

WATER RATES - CIP Peduction (Volume)												
		September 1st, 20. 4 - December 31st, 202	Junuary 1st, 2026 - Dr tember 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029						
POTABLE WA	ATER: (per 1,000 gallons)	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits						
Single Family	Tier 1 (0 - 3,500 gallons)	\$4.30	\$4.73	\$5.20	\$5.72	\$6.29						
	Tier 2 (3,501 - 6,200 gallons)	\$4.62	\$5.08	\$5.59	\$6.15	\$6.76						
	Tier 3 (6,201 - 11,500 gallons)	\$9.24	\$10.16	\$11.18	\$12.30	\$13.53						
	Tier 4 (11,501+ gallons)	\$18.48	\$20.32	\$22.36	\$24.59	\$27.05						
Multi-Family		\$4.70	\$5.18	\$5.69	\$6.26	\$6.89						
Commercial/Schools		\$5.60	\$6.16	\$6.78	\$7.46	\$8.20						
Institutional		\$5.60	\$6.16	\$6.78	\$7.46	\$8.20						
Manufacturing		\$5.27	\$5.80	\$6.38	\$7.01	\$7.71						
Landscaping/Lawn Meters		\$9.97	\$10.96	\$12.06	\$13.27	\$14.59						
Hydrant Meter		\$7.42	\$8.16	\$8.98	\$9.88	\$10.86						
Standpipe**		\$7.36	\$8.10	\$8.91	\$9.80	\$10.78						

*Inside city rates. All rates exclude taxes and energy fee

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Water Projected Average Bill Impacts – CIP Reduction Scenario

Customer Meter Vo		Avg. Bill Volume	Volume Avg. FY 2024		Effective Date 9/1/2024		Effective Date 1/1/2026		Effective Date 1/1/2027		Effective Date 1/1/2028		Effective Date 1/1/2029	
	(kgals)	Water Bill	Total Bill*	\$ Change	% Change	Total Bill*	چ Change	Total Bill*	\$ Change	Total Bill*	\$ Change	Total Bill*	\$ Change	
Proposed Rates							(15% Rate Increase) (15% Rate Increase)		e Increase)	(15% Rate	15% Rate Increase)		(15% Rate Increase)	
Single Family	3/4"	4	\$30.91	\$32.04	\$1.13	3.7%	, 36. 4	\$4.81	\$42.37	\$5.53	\$48.72	\$6.36	\$56.03	\$7.31
Commercial/ Schools	1"	40	\$207.20	\$255.08	\$47.88	27.1%	1293.34	\$38.26	\$337.35	\$44.00	\$387.95	\$50.60	\$446.14	\$58.19
CIP and Rate Red	luction						(10% Rate	Increase)	(10% Rate	e Increase)	(10% Rate	e Increase)	(10% Rate	e Increase)
Single Family	3⁄4"	4	\$30.91	\$31.36	\$0.45	1.5%	\$34.49	\$3.14	\$37.94	\$3.45	\$41.73	\$3.79	\$45.91	\$4.17
Commercial/ Schools	1"	40	\$207.20	\$242.67	\$35.47	17.1%	\$266.93	\$24.27	\$293.63	\$26.69	\$322.99	\$29.36	\$355.29	\$32.30

*Total Bill = Water Fixed Charge + Water Volume Charge

Wastewater Rate Structure – CIP Reduction Rate Projections

- CIP Reduction average \$2.3M per year
- Rate Projection 5% reduction
- Total Bill = Fixed Monthly Meter Charge + Volume Charge

SEWER RATES - CIP Reduction (Fixed Charge)											
	September 1st, 2024 - December 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029						
Meter Charge	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits	Inside City Limits						
0.75	\$10.03	\$12.04	\$13.24	\$13.90	\$14.60						
1	\$16.75	\$20.10	\$22.11	\$23.22	\$24.38						
1.5	\$33.40	\$40.08	\$44.09	\$46.29	\$48.61						
2	\$53.46	\$64.15	\$70.57	\$74.10	\$77.80						
3	\$117.05	\$140.46	\$154.51	\$162.23	\$170.34						
4	\$167.2	\$200.64	\$220.70	\$231.74	\$243.33						
6	\$334.30	\$401.16	\$441.28	\$463.34	\$486.51						
8	\$5.4.5	\$641.88	\$706.07	\$741.37	\$778.44						
SEWER RATES - CIP Reduction (Volume)											
	Se [,] tember 1st, 2024 - [,] ccember 31st, 2025	January 1st, 2026 - December 31st, 2026	January 1st, 2027 - December 31st, 2027	January 1st, 2028 - December 31st, 2028	January 1st, 2029 - December 31st, 2029						

	ecember 31St, 2025	December 31St, 2020	December 31St, 2021	December 31St, 2026	December 315t, 2029
SEWER: (per 1,000 gallons)	Inside City Rate	Inside City Rate	Inside City Rate	Inside City Rate	Inside City Rate
<u>Residential</u>					
Residential	\$5.29	\$6.35	\$6.98	\$7.33	\$7.70
Non-Residential					
Non-Residential A	\$4.34	\$5.21	\$5.73	\$6.02	\$6.32
Non-Residential B	\$6.77	\$8.12	\$8.94	\$9.38	\$9.85
Non-Residential C	\$28.21	\$33.85	\$37.24	\$39.10	\$41.05
*Residential usage based on WQA (usage billed in winter months of De	cember, January, Februar	y, March)			

**Inside city rate. All rates exclude taxes

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Wastewater Projected Average Bill Impacts – CIP Reduction Scenario

Customer	Rep. Meter	Avg. Bill Volume			Effective Date 9/1/2024		Effective Date 1/1/2026		Effective Date 1/1/2027		Effective Date 1/1/2028		Effective Date 1/1/2029	
Class	S Size (kgals) Bill Total \$ %	% Change	Total Bill*	\$ Change	Total Bill*	\$ Change	Total Bill*	\$ Change	Total Bill*	\$ Change				
Proposed Rates							(25% cate Increase)		(15% Rate Increase)		(10% Rate Increase)) (5% Rate Increase)	
Residential	3/4"	4.88	\$26.13	\$38.37	\$12.24	46.8%	\$47.96	\$9.59	\$55.15	\$7.19	\$60.67	\$5.52	\$63.70	\$3.03
Commercial	1"	17.60	\$99.96	\$102.69	\$2.73	2.7%	212.3.36	\$25.67	\$147.62	\$19.25	\$162.38	\$14.76	\$170.50	\$8.12
CIP and Rate Red	luction					%	(20% Rate	e Increase)	(10% Rate	e Increase)	(5% Rate	Increase)	(5% Rate	Increase)
Residential	3/4"	4.88	\$26.13	\$35.86	\$9.71	37.2%	\$43.01	\$7.17	\$47.32	\$4.30	\$49.68	\$2.37	\$52.17	\$2.48
Commercial	1"	17.60	\$99.96	\$93.13	(\$6.83)	(6.8%)	\$111.76	\$18.63	\$122.94	\$11.18	\$129.08	\$6.15	\$135.54	\$6.45

*Total Bill = Wastewater Fixed Charge + Wastewater Volume Charge

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Discussion

City Council thoughts on scenarios and direction forward

Next Steps

- May 17 Water Commission comments on draft report are due
- June 4 Final rate package review and last update to Council before the public hearing
- June 18 and July 2, 2024 Public hearings on changes in rates and fees
- September 1, 2024 new rates are effective



Thank you