

City of Littleton

Sewer and Storm Drainage Rate Study

August 11, 2026





Agenda

1. Rate study overview
2. Sewer financial plan update
3. Sewer pricing objectives & rate design
4. Storm drainage financial plan review
5. Customer billing frequency
6. Customer affordability
7. Public outreach
8. Staff recommendation

A rate study balances:



What is a Rate Study?

A rate study is a financial planning and rate-setting process that:



Identifies the cost to be recovered from rates:

- O&M
- Capital
- Reserves
- Debt Service



Sets legally defensible rates

- Cost of service analysis
- Follow industry best practices



Rates align with community objectives

- Revenue stability
- Essential use affordability
- Equity between customer classes
- Cost recovery within a class
- Conservation
- Ease of understanding, administration, and implementation

Sewer Financial Plan Update



Financial plan changes since 5/12 study session

Changes reduced initial revenue adjustments, and better-balanced use of debt issues and reserves to fund capital projects



CIP Adjustments

4-year replacement programs for line replacement, pipe patches and lining spread over 5-years.



Rate adjustment constraints

Added scenarios with annual revenue adjustments limited to 15% per year



Debt structuring

Incorporated *Federal funding program - Water Infrastructure Finance and Innovation Act (WIFIA)* financing as first priority debt financing, then state loans, then revenue bonds to finance capital projects

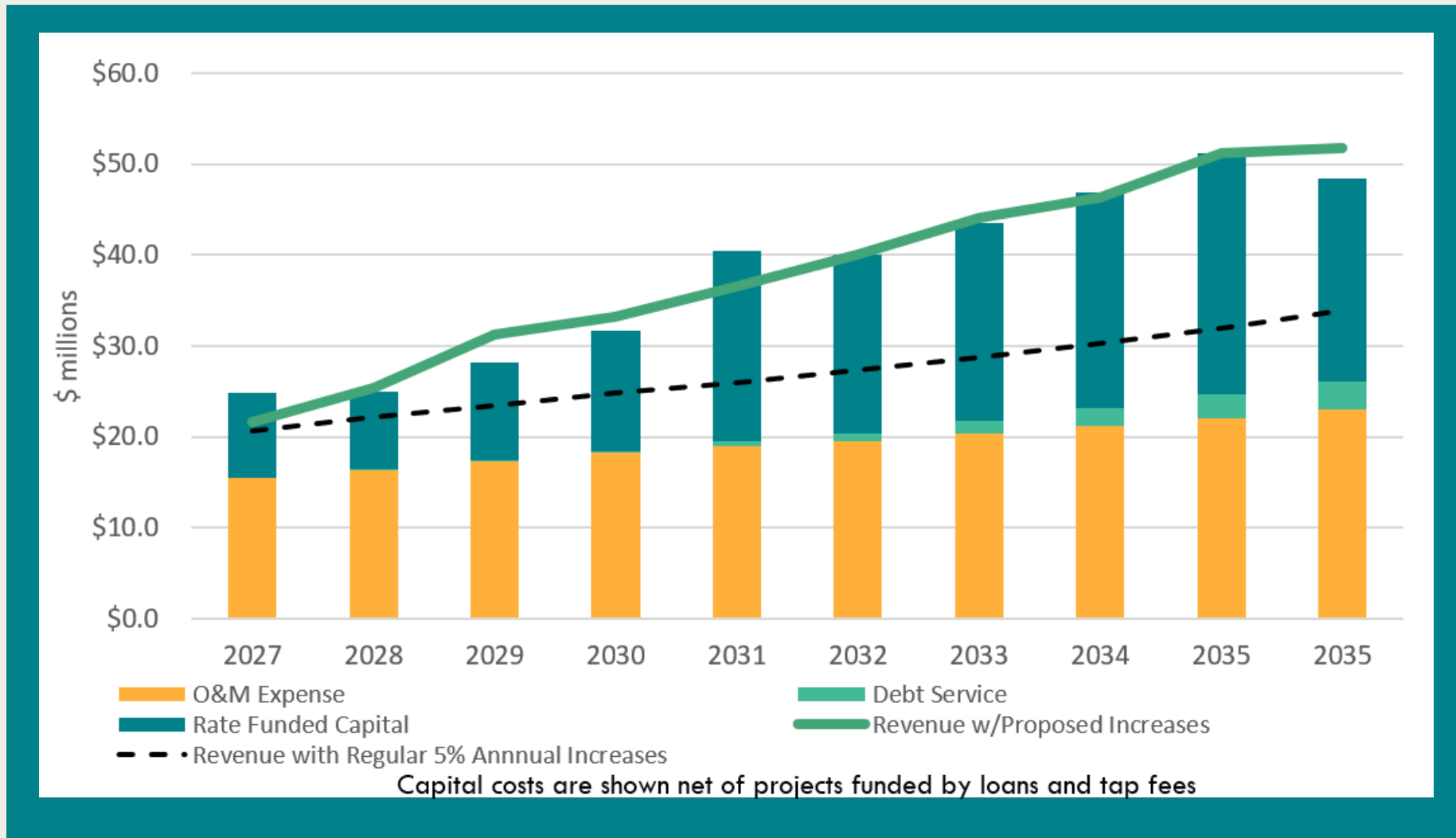


Reserve management

Cash reserves kept close to target reserve levels to leverage cash spending prior to issuing debt, avoiding accruing large cash balances where possible

Sewer 10-Year financial forecast

Annual Revenues and Expenditures

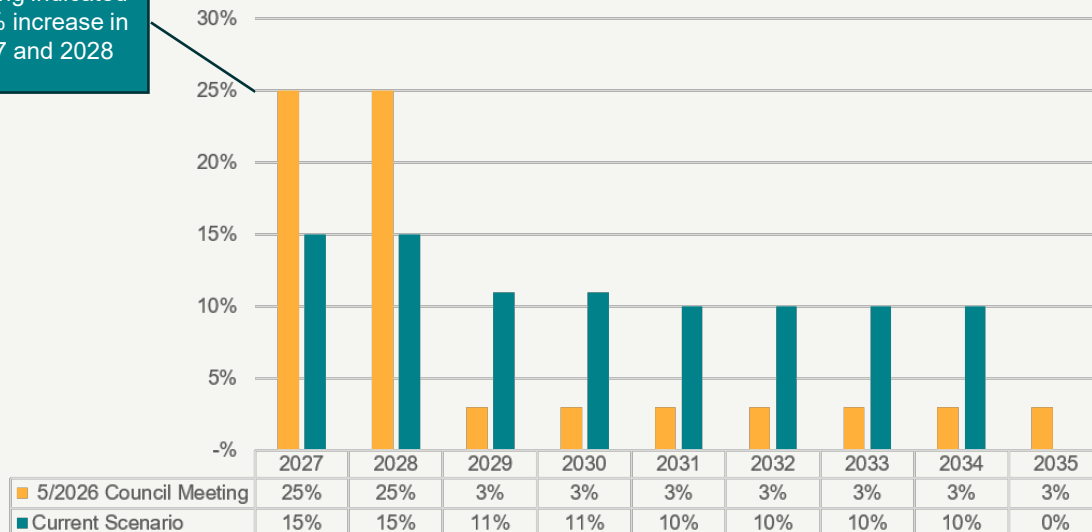


Financial plan assumptions

- Funds the \$256.2 million capital program, annual operating expenses, and debt service
- Debt issue cap of \$65 million
- Remainder funded by rates, reserves, tap fees, and other operating revenues

Scenario from prior May 2026 meeting indicated a 25% increase in 2027 and 2028

Comparison of Proposed Rate Adjustments
Prior Council Meeting and Current Scenario



Revenue Adjustment Summary

1

May 2026 Council Meeting

2027: 25%

2028: 25%

Average increase:
2029 – 2035: 3%

2

Updated Financial Plan Scenario

2027: 15%

2028: 15%

Average increase:
2029 – 2035: 9%

Sterling Ranch (Dominion Water & Sanitation)

Start-up & emergency back-up agreement since August 2015

Purpose was to provide treatment at SPR until Dominion built treatment plant within about 6 years

Current timeframe for plant has exceeded start-up intent so new agreement currently under discussion

Revenue assumption in plan has been made accounting for Dominion system payments due over five-year period to avoid subsidy in of Sterling Ranch in rate model

Pricing Objectives

Sanitary Sewer



Rate schedule pricing objectives

Required objectives



Revenue sufficiency

Rates must be sufficient to recover utility's costs and sustain the utility's financial health.



Defensibility

Rate structure is compliant with relevant local, state, and federal laws; satisfies any debt obligation covenants or other requirements

Rate structure pricing objectives



Revenue stability

Rate structure should generate stable and predictable revenues sufficient to meet annual revenue requirements, bond covenants and other financial requirements.



Cost equity between customer classes

Through a cost-of-service analysis, costs are recovered proportionately from each customer class' rate structure based on their unique demand characteristics and level of service requirements.



Cost equity between customers within a class

The rate structure results in individual customers paying their cost to receive service based on their unique demand characteristics (e.g. low volume and high volume customers).



Basic sanitation affordability

Rate structure should provide essential services at the lowest possible cost all the while allowing the utility to generate revenue sufficient to maintain their financial health.

Rate structure pricing objectives



Conservation pricing signal

Rate structure contains a pricing signal to encourage the wise use of water.



Customer understanding

The rate structure is easy to explain and understood by customers with minimal misinterpretations as possible.



Ease of administration

Rate structure should be compatible with existing billing and accounting systems.

Information for implementation and administration should be based on readily available, and manageable data

Pricing objectives ranking

Objective	Current Fixed Structure	Alternative – Flexible Structure
Revenue sufficiency		
Defensibility		
Revenue stability		
Cost equity between classes		
Cost equity within a class		
Basic sanitation affordability		
Customer understanding		
Ease of administration		

Rate Design

Sanitary Sewer



Current sanitary sewer fixed rate structure

applies to all customers

Annual Charges

- Residential
 - Annual flat charge, \$ per account
- Multifamily
 - Annual flat charge, \$ per unit
- Commercial
 - Annual flat charge [1], \$ per account
 - Volume rate, \$ per 1,000 gallons
- Commercial volume rate applied to usage over 22,000 gallons for inside city customers and 44,000 gallons for outside city customers

Services provided

- Treatment and collection
 - Applies to City of Littleton customers
- Treatment only
 - Applies to:
 - Customers *within* City but served by District (i.e. Littleton Village)
 - Customers *outside* the City served by Districts

Areas served

- City of Littleton
- Ken Caryl
- Bow Mar
- Sterling Ranch (Dominion)
- Platte Canyon
- Grant Ranch
- Meadowbrook
- Roxborough
- Columbine

Rate comparison of fixed rate structure Existing 2026 and Proposed 2027

City of Littleton Treatment and Collection

- Residential

<u>Residential</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$360.57	\$30.05
2027 Fixed	\$414.66	\$34.55
Inc/(Dec) - \$	\$54.09	\$4.50

- Multifamily

<u>Multifamily</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$306.46	\$25.54
2027 Fixed	\$352.43	\$29.37
Inc/(Dec) - \$	\$45.97	\$3.83

- Commercial

<u>Commercial</u>	<u>\$ per Year*</u>	<u>\$ per Month</u>	<u>\$ per k-gal</u>
2026 Fixed	\$148.55	\$12.38	\$6.62
2027 Fixed	\$170.83	\$14.24	\$8.28
Inc/(Dec) - \$	\$22.28	\$1.86	\$1.66

- *Commercial bill is the greater of the minimum charge or the billable volume x volume rate

Inside City, Served by District Treatment Only

- Residential

<u>Residential</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$273.66	\$22.81
2027 Fixed	\$314.71	\$26.23
Inc/(Dec) - \$	\$41.05	\$3.43

- Multifamily

<u>Multifamily</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$232.59	\$19.38
2027 Fixed	\$267.48	\$22.29
Inc/(Dec) - \$	\$34.89	\$2.91

Outside City Treatment Only

- Residential

<u>Single Family</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$328.37	\$27.36
2027 Fixed	\$377.63	\$31.47
Inc/(Dec) - \$	\$49.26	\$4.11

- Multifamily

<u>Multifamily</u>	<u>\$ per Year</u>	<u>\$ per Month</u>
2026 Fixed	\$279.09	\$23.26
2027 Fixed	\$320.95	\$26.75
Inc/(Dec) - \$	\$41.86	\$3.49

- Commercial

<u>Commercial</u>	<u>\$ per Year*</u>	<u>\$ per Month</u>	<u>\$ per k-gal</u>
2026 Fixed	\$178.23	\$14.85	\$3.61
2027 Fixed	\$204.96	\$17.08	\$4.15
Inc/(Dec) - \$	\$26.73	\$2.23	\$0.54

- *Commercial bill is the greater of the minimum charge or the billable volume x volume rate

Proposed flexible rate structure

Customer classes and service areas remain the same

City of Littleton Treatment and Collection

- Residential
- Multifamily
- Commercial

Inside City, Served by District Treatment Only (i.e. Littleton Village)

- Residential
- Multifamily

Outside City Treatment Only

- Residential
- Multifamily
- Commercial

Sanitary sewer flexible rate structure



Residential

Fixed Charge
\$ per Bill



Volume Rate
\$ per 1,000 gallons
Based on average winter water
volume



Total Sewer Bill (\$)



Multifamily

Fixed Charge
\$ per unit
per bill



Volume Rate
\$ per 1,000 gallons
Based on average winter water
volume



Total Sewer Bill (\$)



Commercial

Fixed Charge
\$ per Bill



Volume Rate
\$ per 1,000 gallons
Based on actual water volume



Total Sewer Bill (\$)

Flexible rate structure



The fixed + variable rate structure is common among wastewater utilities along the front range



Rebalances equity between customer classes and customers within a class



Customers have more flexibility in managing their bill



Average winter consumption

Average billed water use for the months January through March. Applies to residential and multifamily



Actual water consumption

Based on commercial customer's actual 12-month water use



Fixed charge

Recovers the cost of billing, general administrative costs and some capital costs

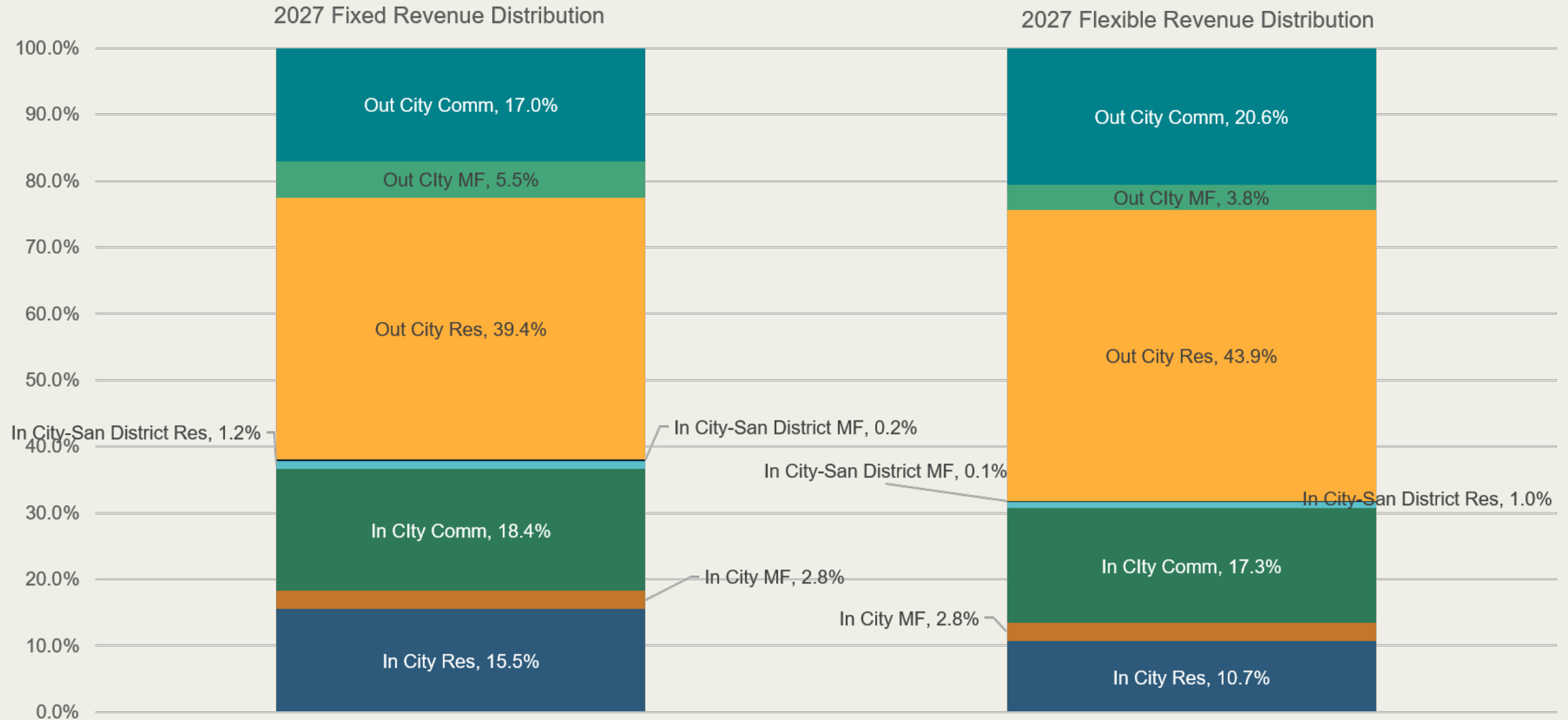


Volume rate

Recovers the cost to collect, treat, and dispose of treated water that meets regulatory requirements

Distribution of revenues by customer class and service area

2027 Fixed Structure and 2027 Flexible Structure



2027 flexible rate structure

applies to all customers

City of Littleton

- Residential
 - \$15.25 per bill
 - \$4.10 per \$1,000 gallons of average winter water use
- Multifamily
 - \$11.44 per unit per bill
 - \$4.10 per \$1,000 gallons of average winter water use
- Commercial
 - \$15.25 per bill
 - \$4.10 per 1,000 gallons of actual water use

Customers in City, served by District

- Residential
 - \$15.25 per bill
 - \$2.98 per \$1,000 gallons of average winter water use
- Multifamily
 - \$11.44 per unit per bill
 - \$2.98 per \$1,000 gallons of average winter water use

Outside City

- Residential
 - \$18.30 per bill
 - \$3.57 per 1,000 gallons of average winter water use
- Multifamily
 - \$13.73 per bill
 - \$3.57 per 1,000 gallons of average winter water use
- Commercial
 - \$18.30 per bill
 - \$3.57 per 1,000 gallons of actual water use

Monthly Bill Comparison

Sanitary Sewer



2027 Inside City residential customer bill



Proposed rates exclude financial plan adjustments and generate the same revenue as existing rates.



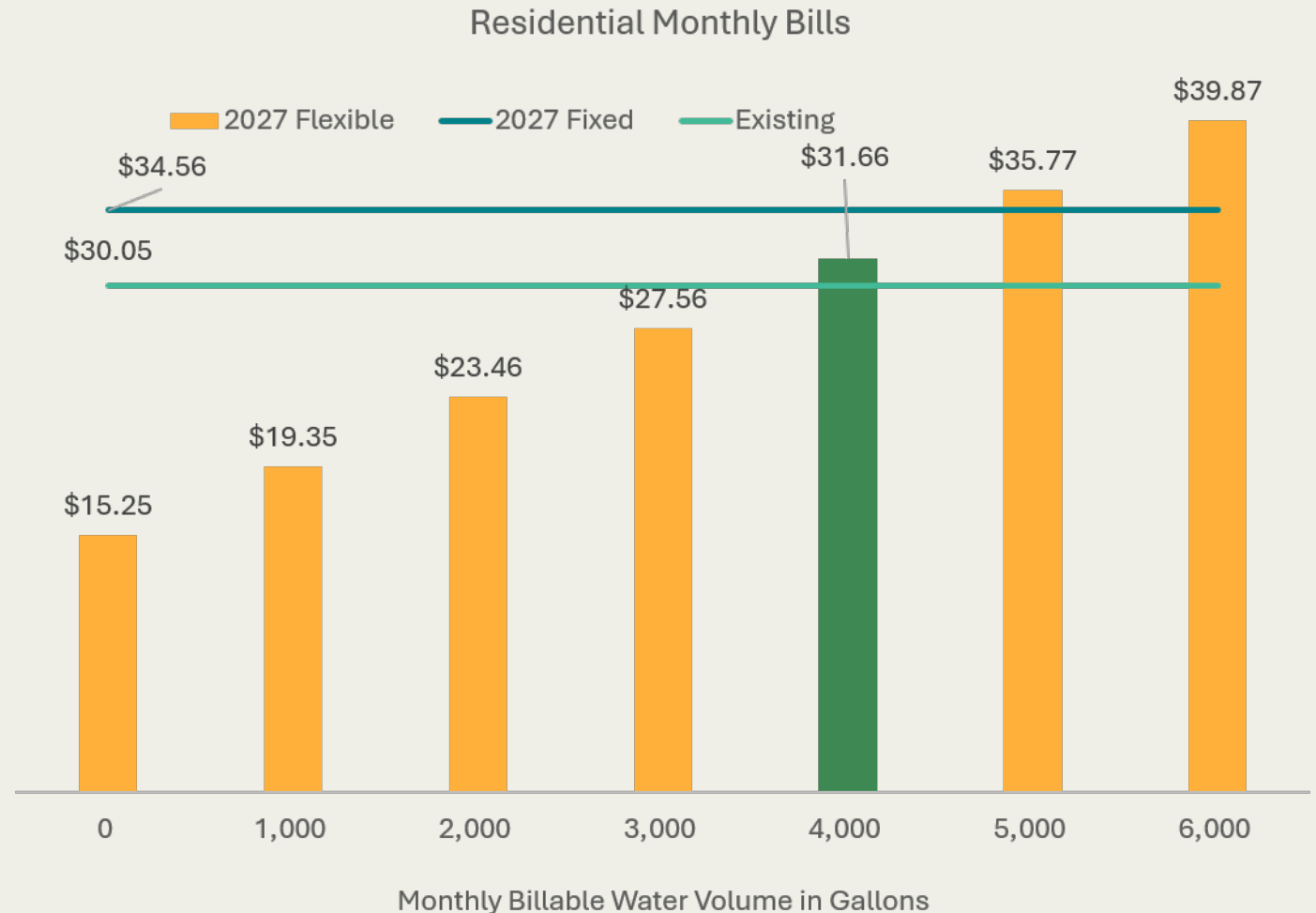
Most residential customer's winter volume averages 3,000 to 4,000 gallons per month



Recovers collection and treatment costs



Average winter consumption will be recalibrated annually based on most recent billing information



2027 Inside City multifamily customer bill (one unit)



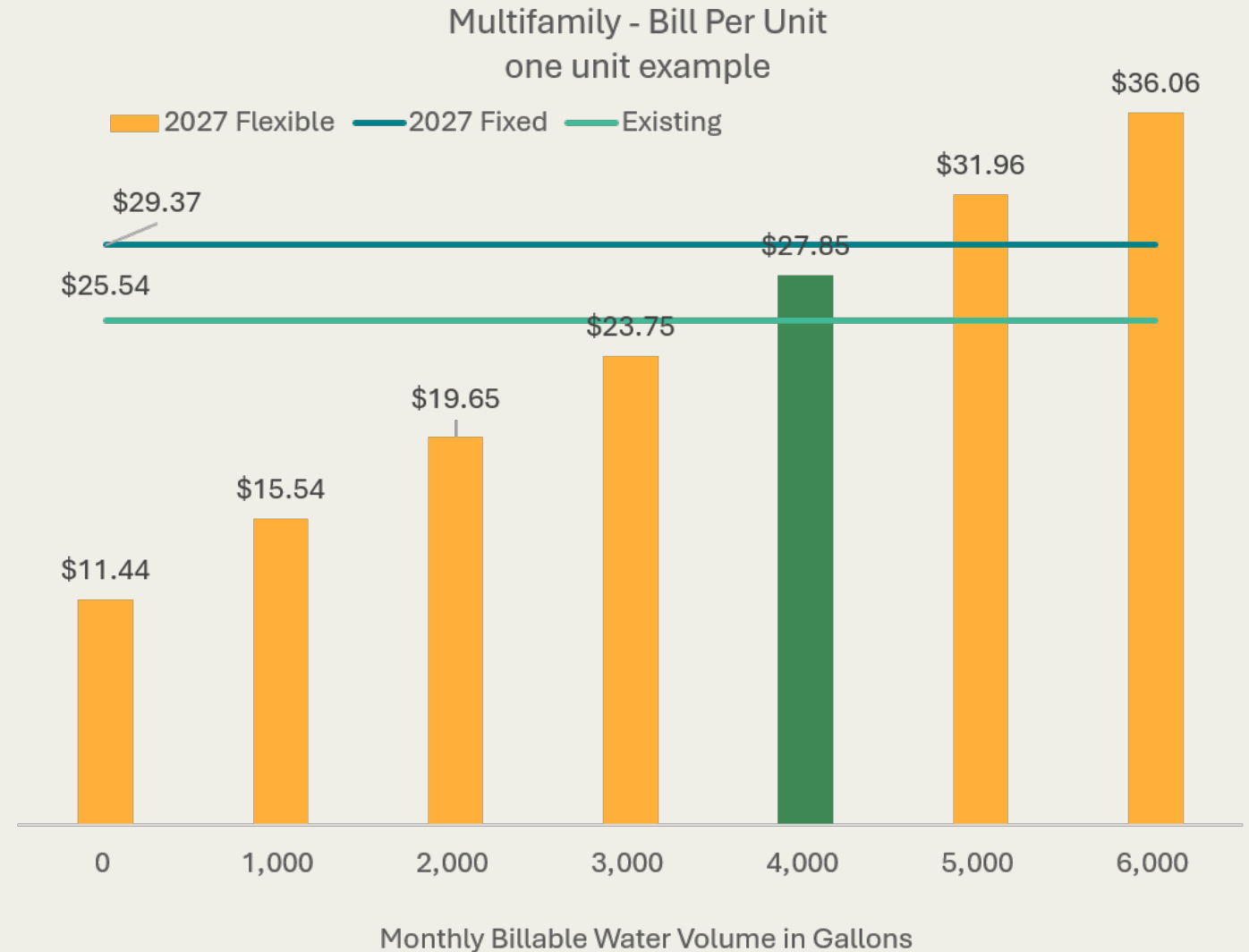
Multifamily customers are billed on a per unit basis for each bill



Multifamily billable volume per unit averages 3,000 gallons



Average winter consumption will be recalibrated annually based on most recent billing information



2027 Inside City commercial customer examples



Current fixed rate structure is based on customers lowest bimonthly use



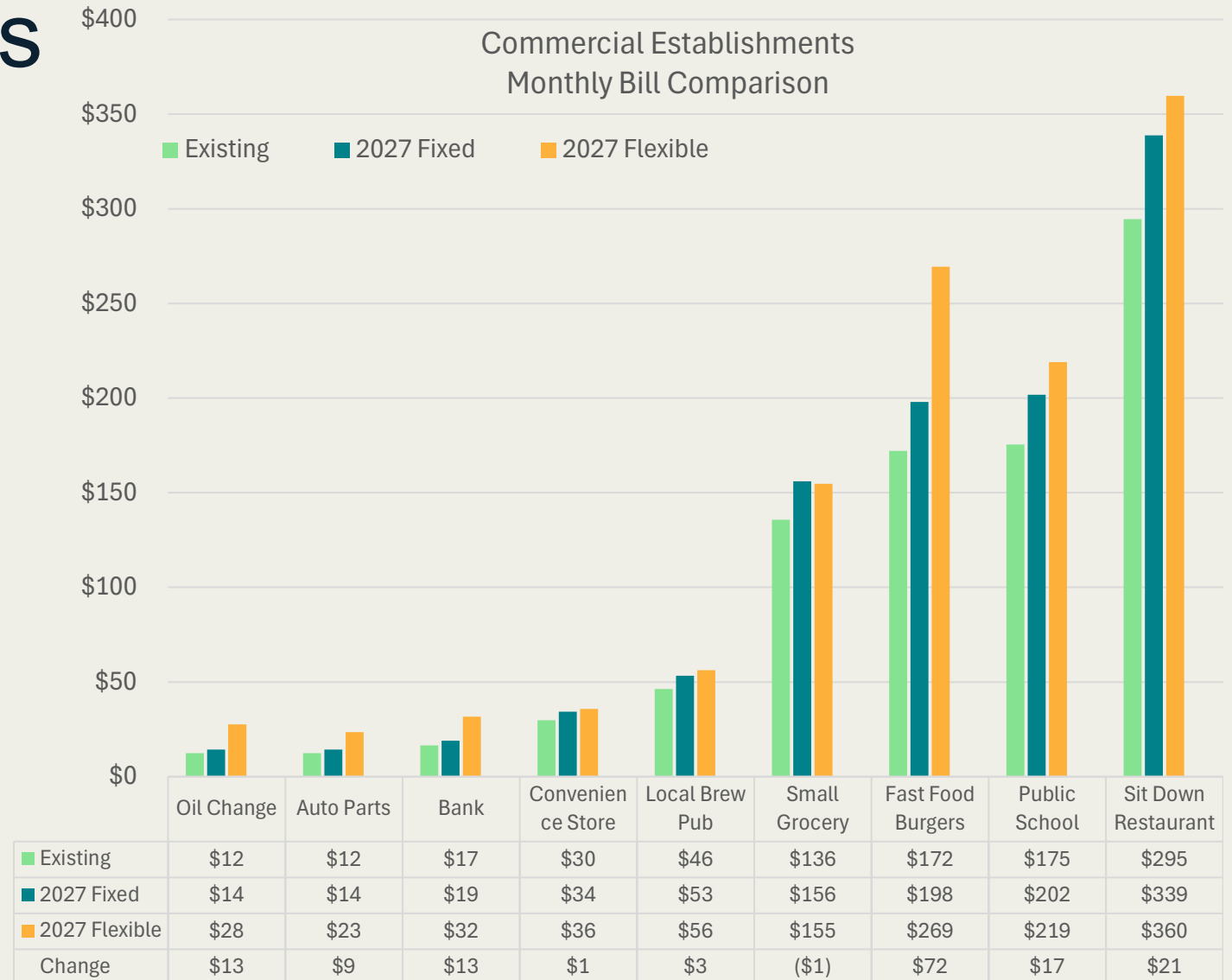
Lowest bimonthly use may understate wastewater flows for some commercial customers.



2027 flexible structure bills customers are billed on actual water use



Under 2027 flexible, customers with consistent year-round water use are expected to see little or no change, while those with greater seasonal variation are more likely to see an increase.



Peer utility survey – avg. single family (inside city)

Why sewer rates differ among utilities



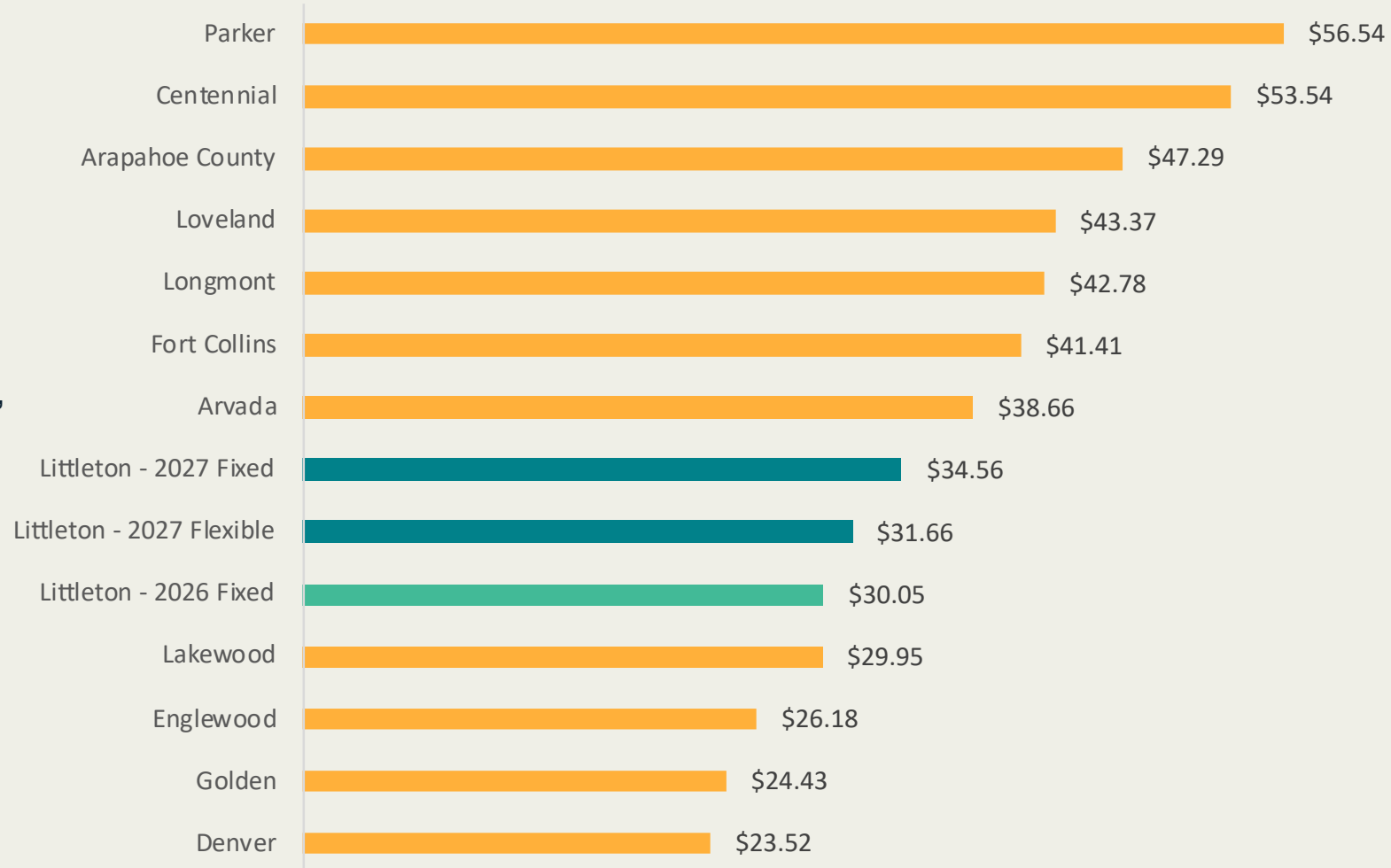
Rates reflect different operating and capital costs and funding approaches



Rates reflect differing service levels, capital investments, funding approaches, and cost recovery



Differences in rates do not necessarily reflect differences in efficiencies or service quality



Storm Drainage Financial Plan Update



Financial plan

No changes from May 11
Council meeting



Capital improvement program
10-year capital program totals \$72.4 million



Capital funding sources
Revenue bonds: \$10.8 million
State loans: \$12 million
Other revenue: \$49.6 million



Capital driver for initial 2027 increase
Rangeview Gulch: \$8.0 million



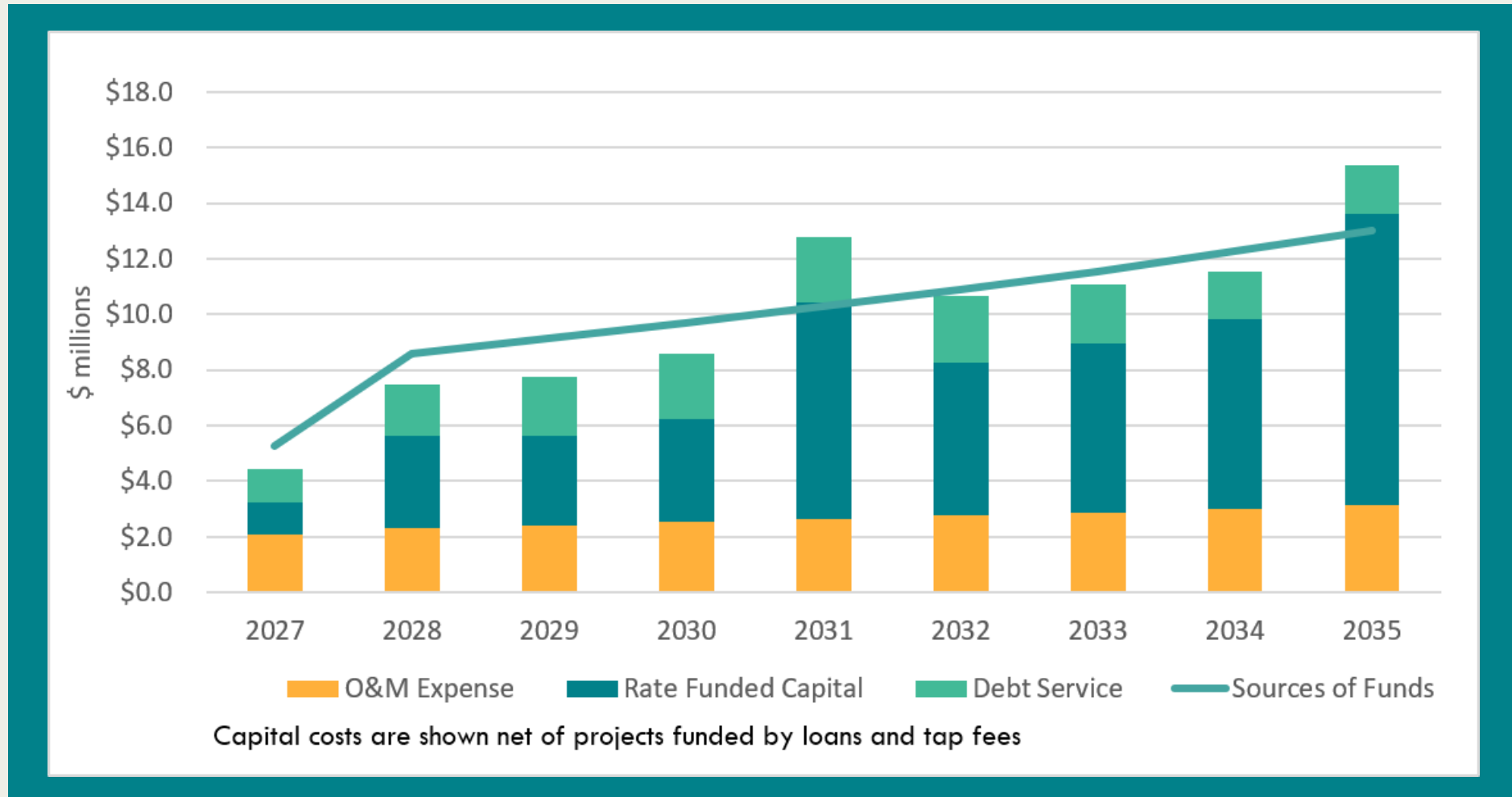
Fund balance building
2026 Balance: \$31,800
2025 Balance: \$2.1 million
Average target reserve requirement: \$620,000



Revenue increases
2027: 60%
2028: 60%
2029 – 2035: 5.2% annually

Storm Drainage 10-Year financial forecast

Annual Revenues and Expenditures



Storm drainage

Existing and proposed rates



Assessed annually



Multifamily and nonresidential developed properties fee includes a charge for:

- Impervious surfaces (parking lots, roofs, etc.)
- Pervious surfaces (grass, gravel, permeable payment)



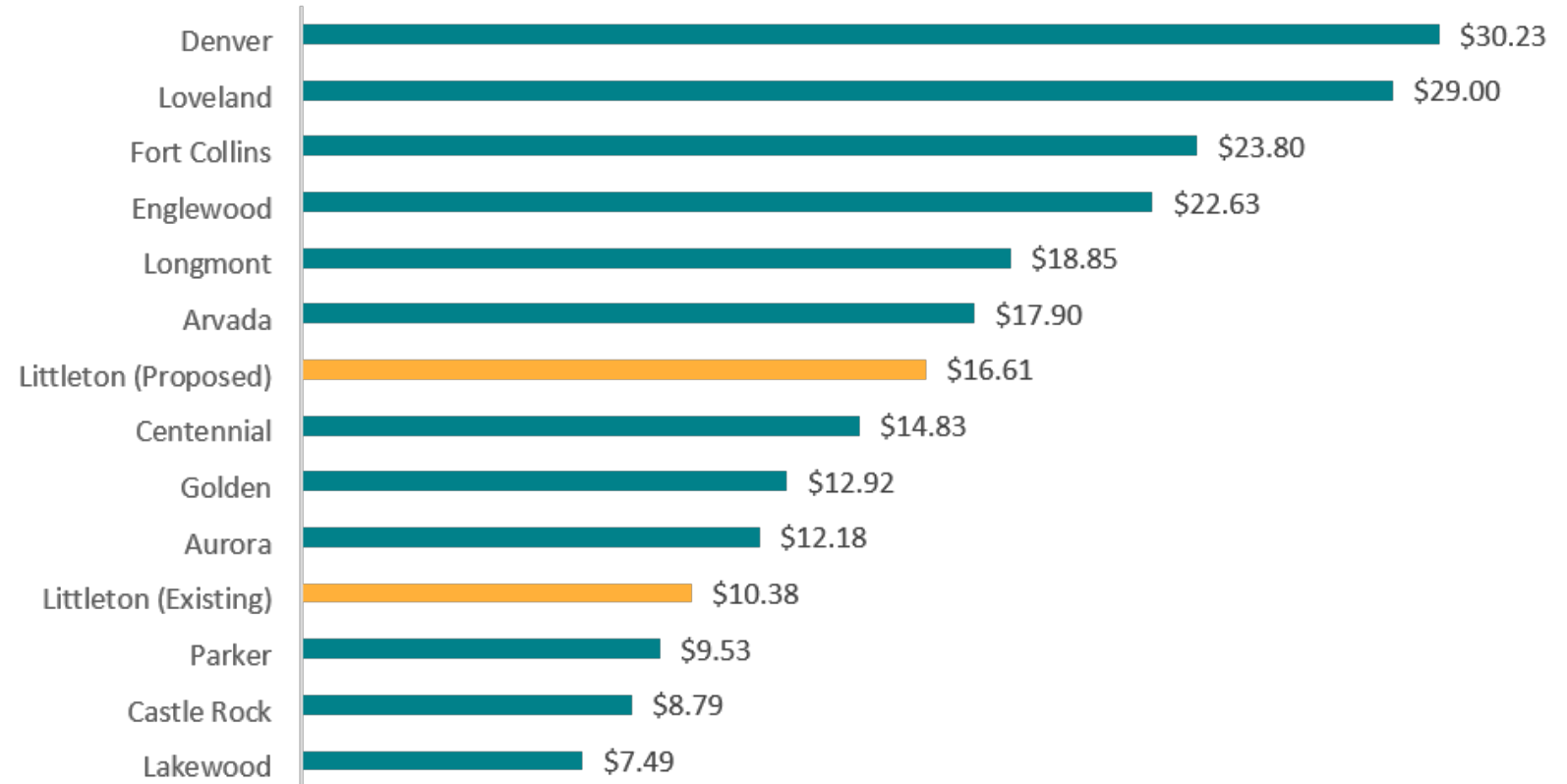
Different charges for developed and undeveloped parcels

Different charge for unsubdivided and subdivided parcel

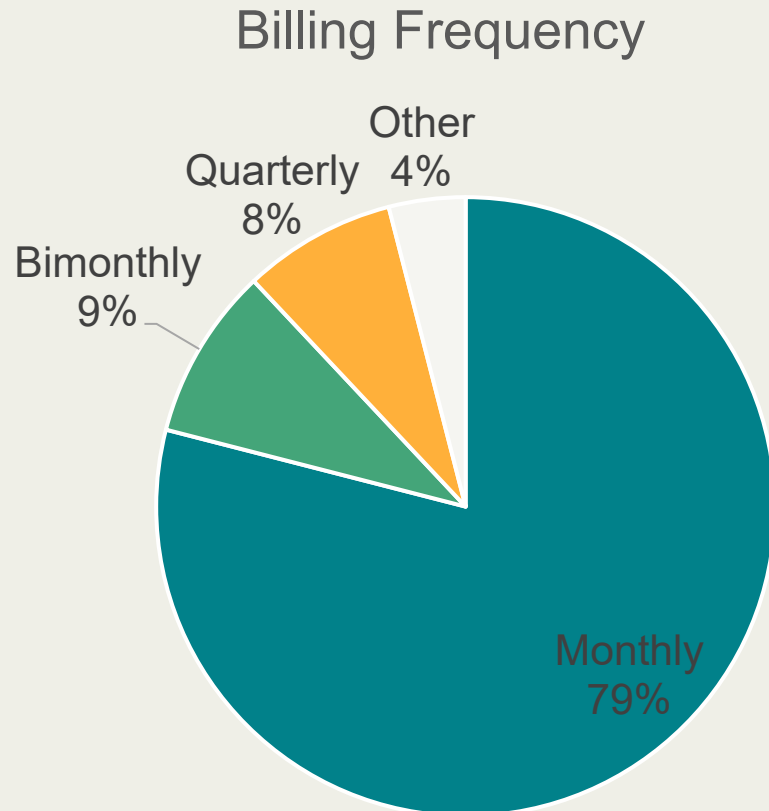
Description	Single Family Detached Structures	Multifamily Residential Commercial, Industrial, Public Properties Churches and Schools	
		Charges	
Developed	<u>\$ per lot or property</u>	<u>\$ per developed acre of IA</u>	
	2026 \$124.54	2026	\$1,037.31
	2027 \$199.26	2027	\$1,659.70
	Inc/(Dec) \$74.72	Inc/(Dec)	\$622.39
		+	
		<u>\$ per acre of pervious area</u>	
		2026	\$259.33
		2027	\$414.93
		Inc/(Dec)	\$155.60
Subdivided/ Undeveloped	<u>\$ per undeveloped lot</u>	<u>\$ per undeveloped lot</u>	
	2026 \$31.12	2026	\$259.33
	2027 \$49.79	2027	\$414.93
	Inc/(Dec) \$18.67	Inc/(Dec)	\$155.60
Undivided/ Undeveloped	<u>\$ per undeveloped lot</u>	<u>\$ per undeveloped lot</u>	
	2026 \$259.33	2026	\$259.33
	2027 \$414.93	2027	\$414.93
	Inc/(Dec) \$155.60	Inc/(Dec)	\$155.60
Vacant and Undisturbed	<u>\$ per acre of vacant res property</u>	<u>\$ per acre of vacant res property</u>	
	2026 \$25.95	2026	\$25.95
	2027 \$41.52	2027	\$41.52
	Inc/(Dec) \$15.57	Inc/(Dec)	\$15.57

Peer inside City residential storm drainage monthly bill comparison

11,000 sq ft
4,500 sq ft
impervious area



Customer billing frequency review



Current billing period: Annual
Industry standard practice: Monthly



Monthly billing benefits

More consistent cash flow/improved financial stability

Improved communication with customers – bill is often only regular form of communication

Avoids bill shock – allows customers to better budget their monthly expenses

Aligns with customers' budgeting/payment schedule



Other considerations

City relies on several datasets from other districts

Sufficient time required to recalibrate AWC billing. Many utilities recalibrate AWC billing with April bills

Affordability assistance program option

- Program considerations
 - › Quantity of impacted customers
 - › Enrollment
 - Collaboration with Xcel
 - › Program administration and operating costs
 - › Program funding source
 - › Reaching multifamily/master metered customers
- Common measures
 - › Percentage of income (median, lowest quintile)
 - › Hours worked at minimum wage

Public Outreach

- On-going
 - Littleton Report articles
 - Social media posts
 - Let's Talk Littleton webpage
 - Meet Greet & Eat
 - Connect with Council
- Upcoming
 - Meeting w/ connector district staff in late August
 - Public meeting at Littleton Center on August 26th
 - Virtual public meeting on September 3rd
 - Final presentation to Council in September / October

Recap of Sewer Model Options and Staff Recommendation

Sewer rate structure options:

- Fixed rate per user class (with volumetric component for commercial), or
- Flexible model based mostly on actual water use

Staff Recommendation:

- Proceed with a flexible **sanitary sewer** rate system based on average winter consumption for residential and actual consumption for commercial
- Proceed with a **stormwater** rate model based on existing financial plan and impervious service model as modeled
- Direct staff to proceed with the public outreach schedule as proposed
- Provide direction on whether to proceed with more detailed analysis on a reduced rate structure for those customers who qualify based on income



Thank you!

Contact: Todd Cristiano
303.305.1138 / tcristiano@raftelis.com