

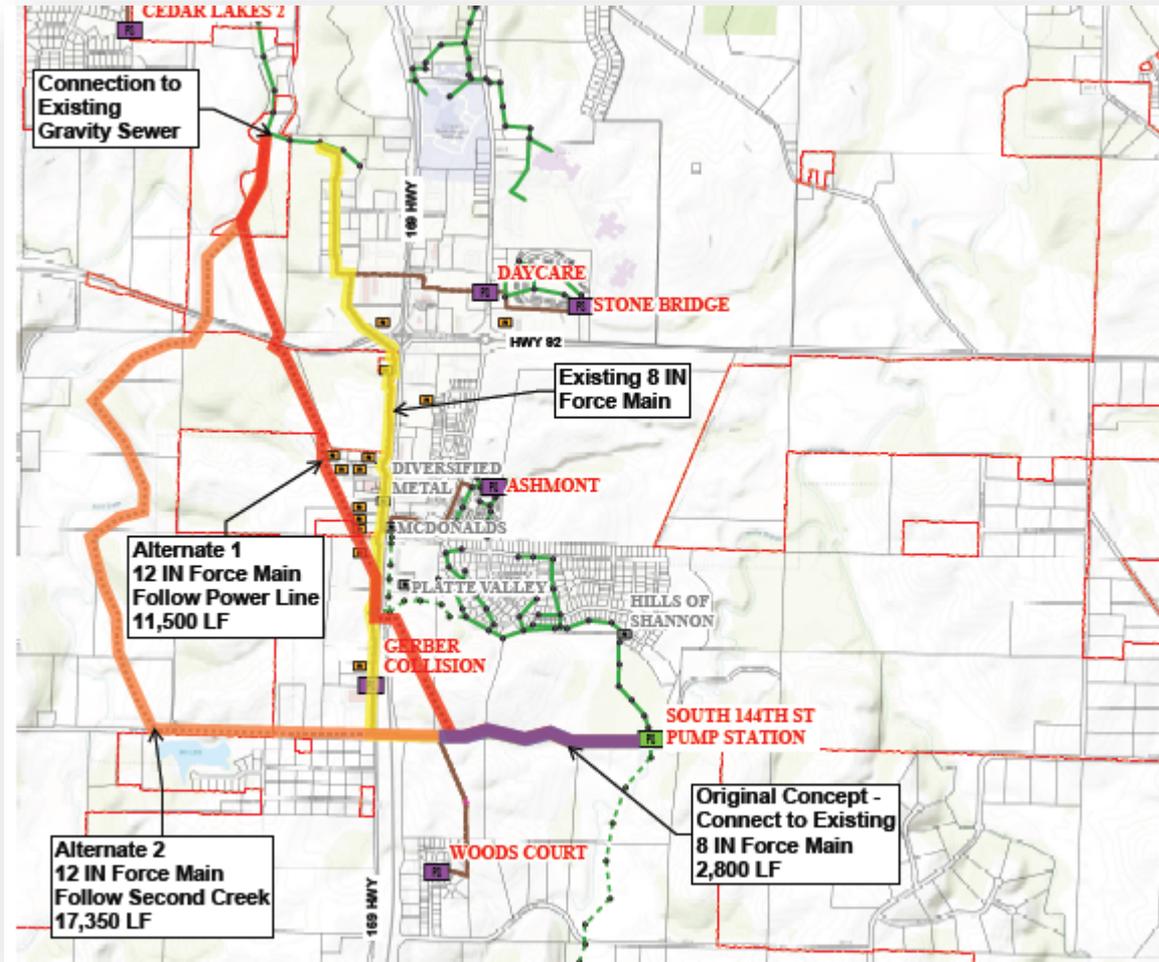
CWWS Fund & Proposed 5 Year CIP



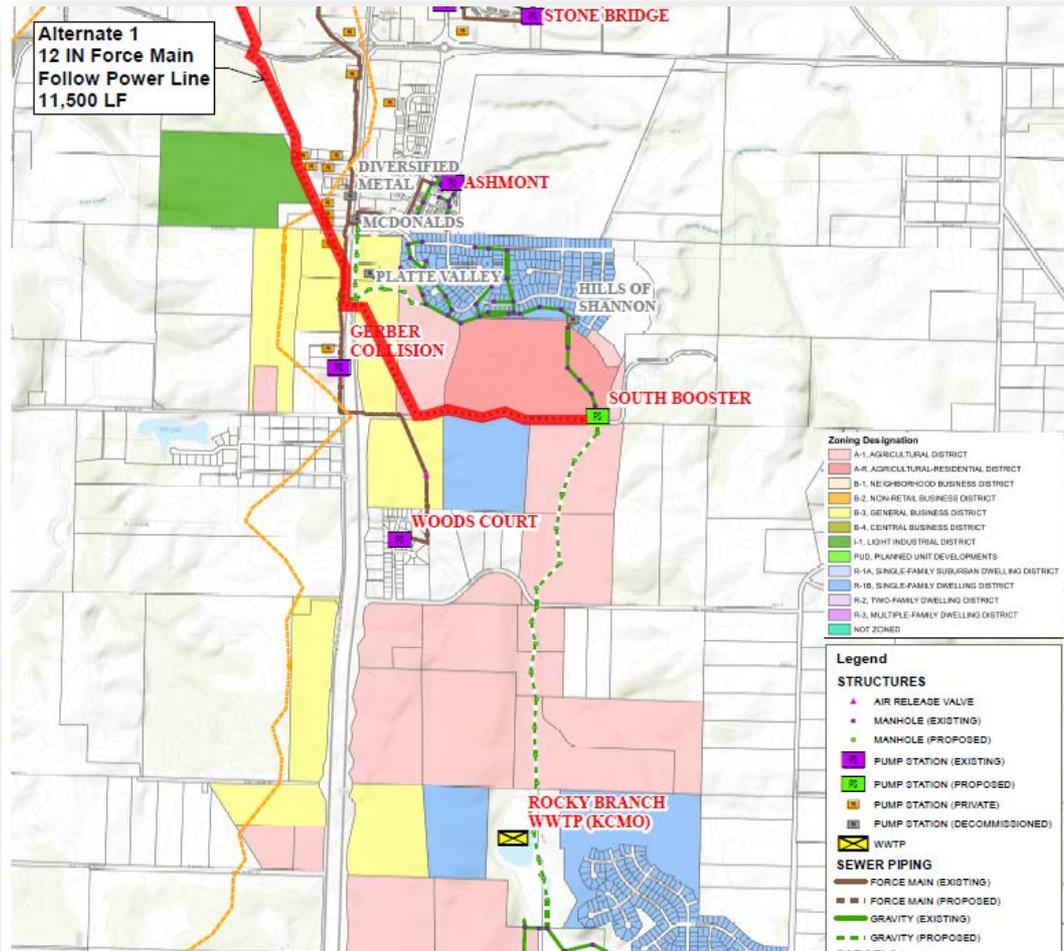


Combined Water and Wastewater Fund

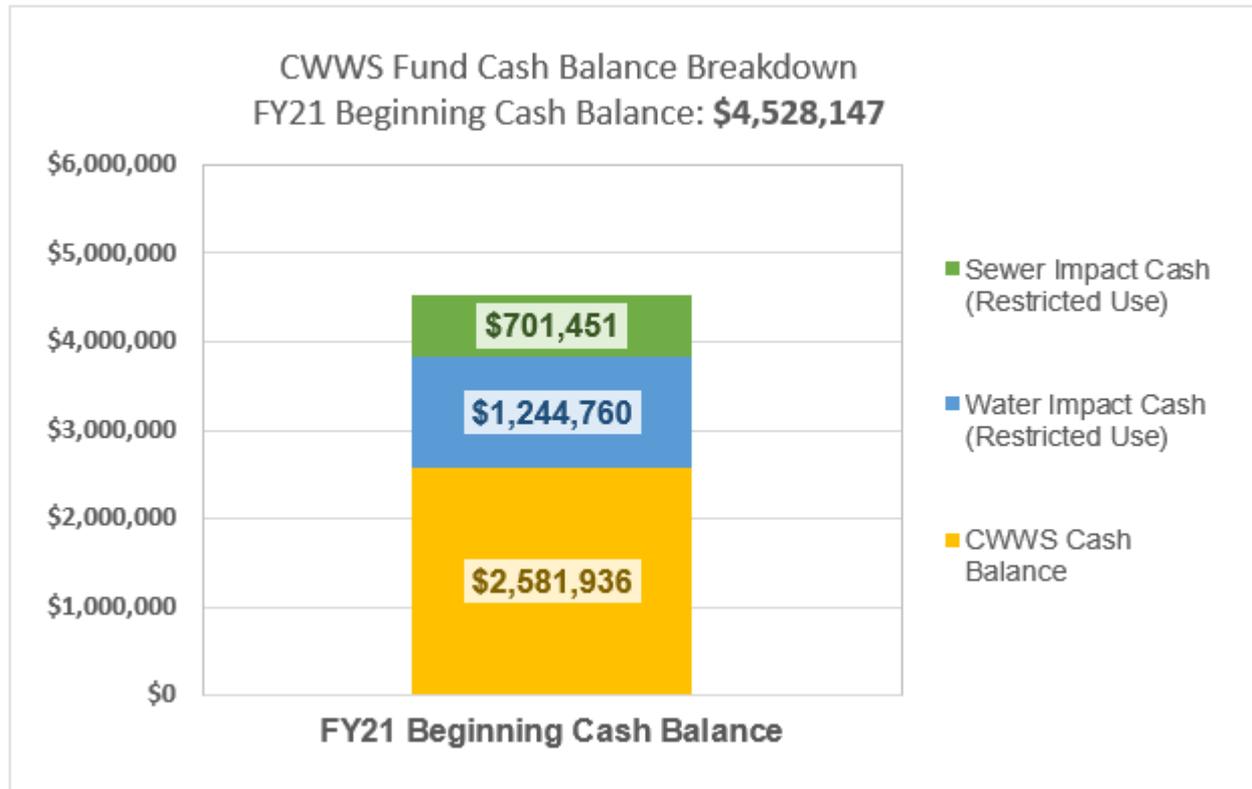
CWWS FUND South Sewer CIP Project



CWWS FUND South Sewer CIP Project



Combined Water/Wastewater FY21 Beginning Cash Balance Breakdown

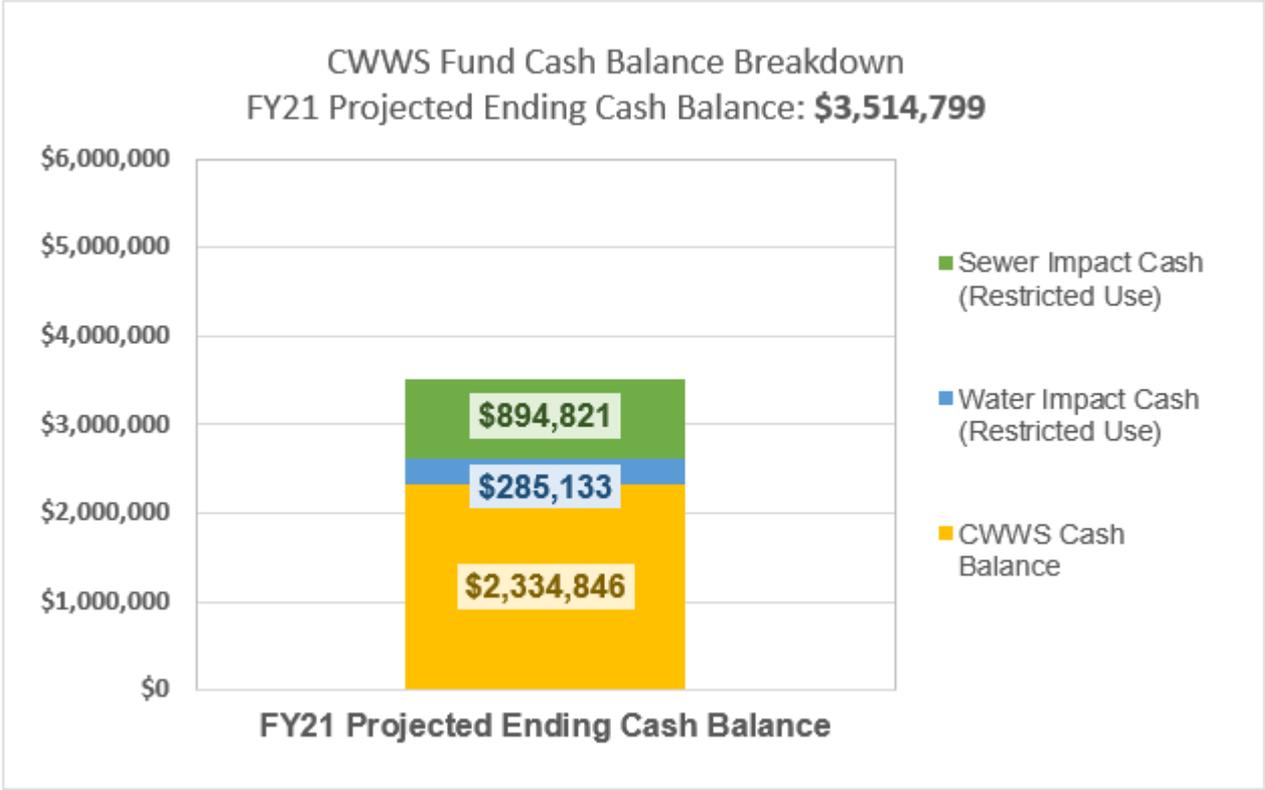


Ending cash balance for CWWS found on **Page 12** of 2020 Financial Statements provided by Auditor

Combined Water/Wastewater Fund FY21 Fund Balance Projection

Combined Water/Wastewater Fund	FY21 Original Budget	FY21 Projected	Delta
Beginning Cash Balance (FY21 Actual)	\$2,902,646	\$4,528,147	\$1,625,501
Revenues	\$4,808,890	\$4,896,983	
Expenditures	\$6,127,260	\$5,910,331	
Ending Cash Balance	\$1,584,276	\$3,514,799	\$1,930,523

Combined Water/Wastewater FY21 Projected Ending Cash Balance Breakdown



COMBINED WATER & WASTEWATER SYSTEM FUND

Proposed 5 Year CIP

Capital Improvement Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Vehicle & Equipment Replacement Fund Transfer	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Finish Raw Water Pump & Campground Station (Engineering)	\$100,000	-	-	-	-
4th Street and 4th Terrace (Engineering)	\$60,000	-	-	-	-
4th Street and 4th Terrace (Construction)	\$300,000	-	-	-	-
Floating Aerator	\$200,000	-	-	-	-
Water Plant Lagoon Cleaning	\$150,000	-	-	-	-
HVAC System (Wastewater Plant)	\$20,000	-	-	-	-
GIS/Asset Management (Cost Split 50/50 With CWWS)	\$50,000	-	-	-	-
UV Lights (Wastewater Plant)	\$40,000	-	-	-	-
Utility Rate Study Update (Impact fees/User Charges)	\$25,000	-	-	-	-
Woods Court Lift Station Rehab	\$40,000	-	-	-	-
West Bypass 144th Street Lift Station (Engineering & Right of Way)	\$500,000	-	-	-	-

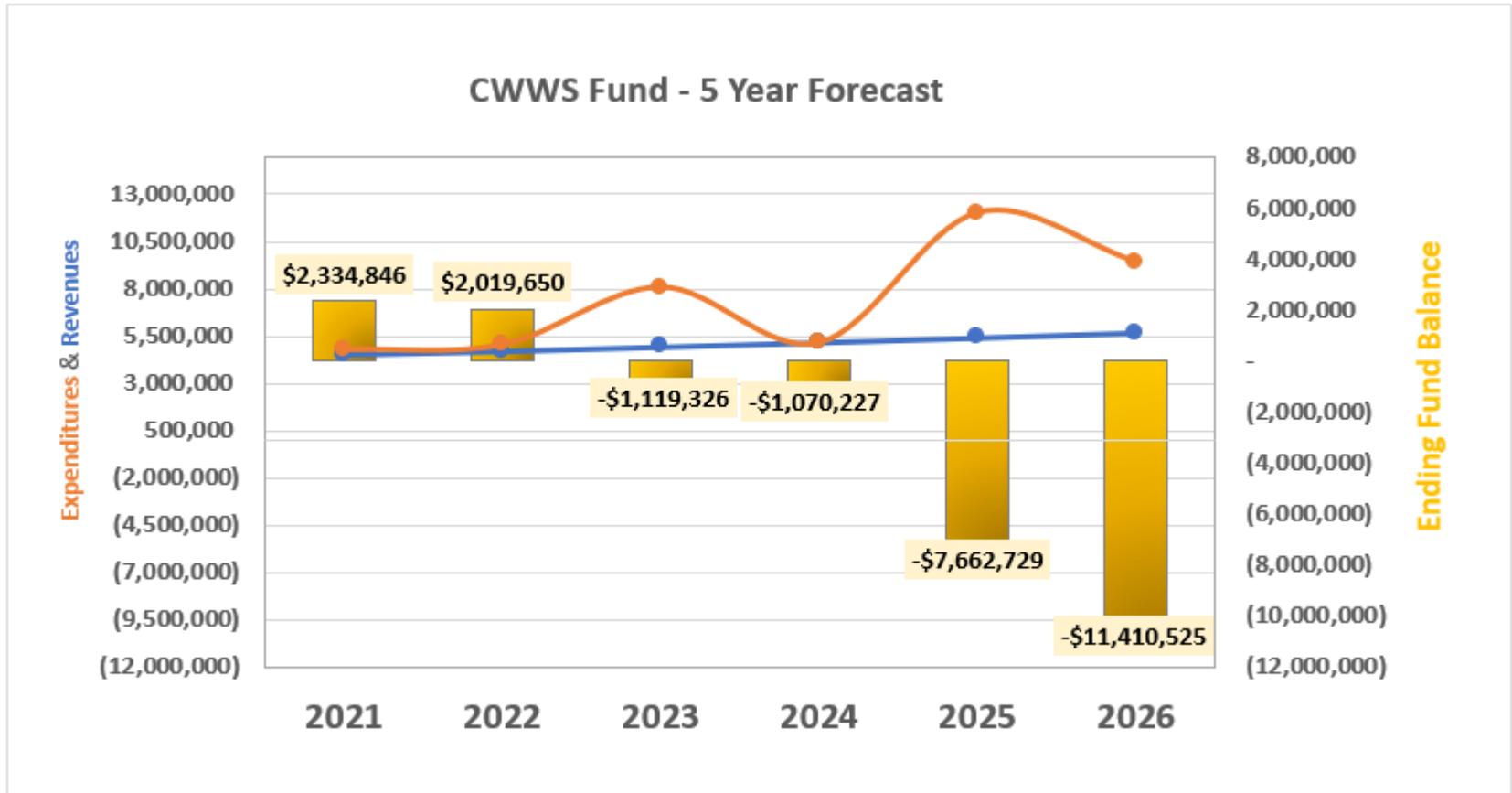
COMBINED WATER & WASTEWATER SYSTEM FUND

Proposed 5 Year CIP (Continued)

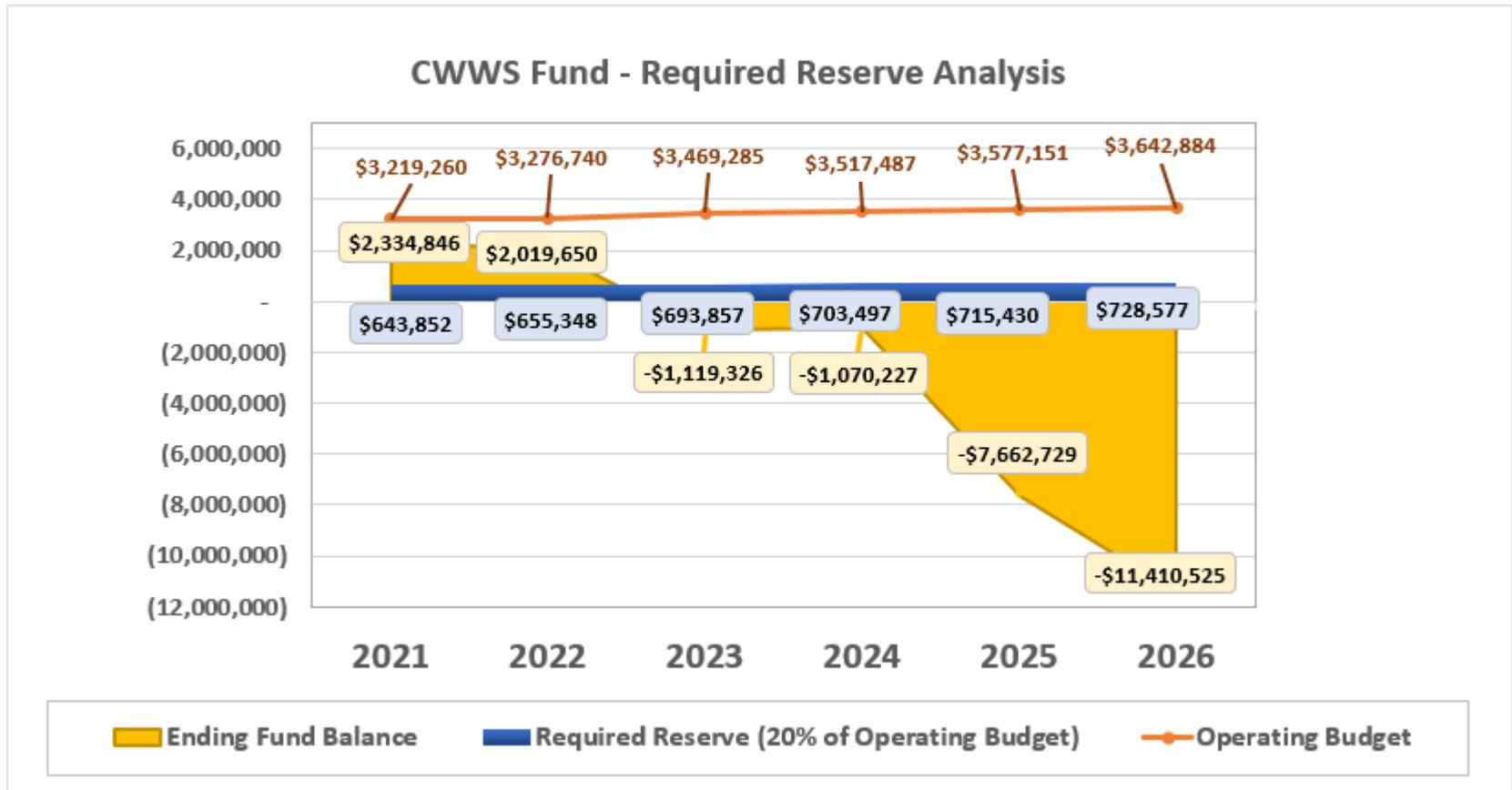
Capital Improvement Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
144th Street Lift Station (Construction)	-	\$1,500,000	-	-	-
West Bypass 144th Street Lift Station (Construction)	-	\$2,000,000	-	-	-
River Crossing (12" Waterline) (Engineering)	-	\$100,000	-	-	-
Tower Interconnect at Amory/169	-	\$20,000	-	-	-
Water Plant Expansion (Engineering)	-	\$1,000,000	\$1,000,000	-	-
River Crossing (12" Waterline) (Construction)	-	-	\$500,000	-	-
Interconnect Mains at 144th/169 Highway	-	-	\$20,000	-	-
Maple Lane (12" Waterline) (Engineering)	-	-	\$50,000	-	-
Highway 92 & Commercial Waterline (Engineering)	-	-	\$50,000	-	-
Maple Lane (12" Waterline) (Construction)	-	-	-	\$250,000	-
Highway 92 & Commercial Waterline (Construction)	-	-	-	\$200,000	-
144th Street to Forest Oaks Gravity Line (Construction)	-	-	-	\$3,000,000	-
Water Plant Expansion (Construction)	-	-	-	\$5,000,000	\$5,000,000
Wastewater Treatment Plant Expansion (Phase I & II Engineering)	-	-	-	-	\$800,000
Grand Total (Net Cost)	\$1,505,000	\$4,640,000	\$1,640,000	\$8,470,000	\$5,820,000

CWWS FUND

CWWS Cash – 5 Year Forecast



CWWS Fund (CWWS Cash) 5 Year Required Reserve Analysis



COMBINED WATER & WASTEWATER SYSTEM FUND

Pending 5 Year CIP

Capital Improvement Project	Cost Estimate
F Highway Water Line Replacement	\$300,000
Quincy Waterline Replacement (Engineering & Construction)	\$600,000
Main Street Waterline (River Crossing to Liberty) (Engineering & Construction)	\$250,000
Helvey Park 12" Waterline (Engineering & Construction)	\$700,000
169 Waterline (Commercial to SW Tower) (Engineering & Construction)	\$700,000
Owens Branch Gravity Line #1*	\$2,000,000
Owens Branch Gravity Line #2*	\$2,000,000
Owens Branch Gravity Line #3*	\$2,500,000
Wastewater Treatment Plant Expansion (Construction)	\$4,000,000
Grand Total (Net Cost)	\$13,050,000

*CIP need is necessitated by population growth/expansion

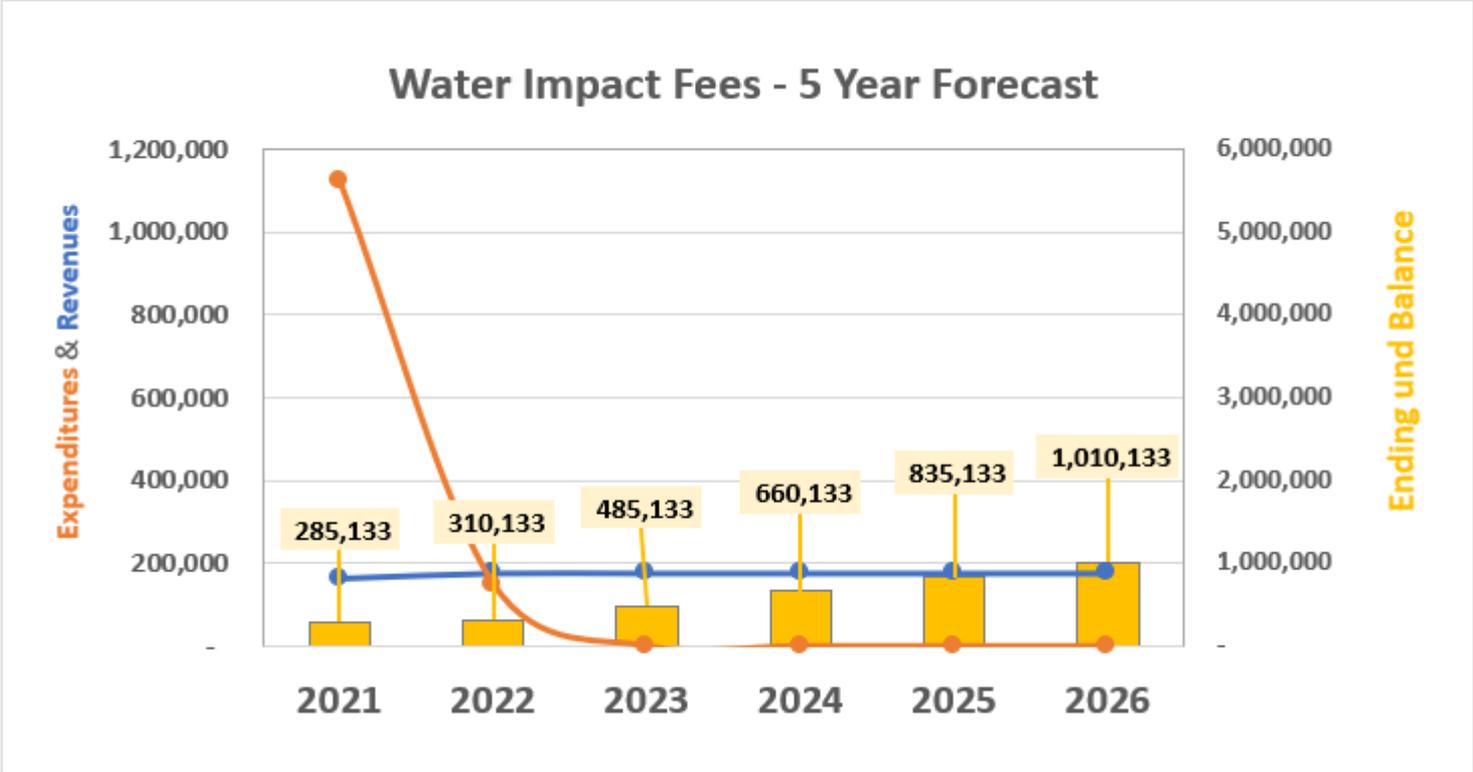
WATER IMPACT FEES

Proposed 5 Year CIP

Capital Improvement Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Loop System at Diamond Crest	\$150,000	-	-	-	-
Grand Total (Net Cost)	\$150,000	-	-	-	-

WATER IMPACT FEES

5 Year Water Impact Cash Forecast



Projected ending balance for Water Impact Cash presumes expenditures of \$1,000,000 for the Raw Water Pump Station, Valve Vault, Zebra Mussel Control.

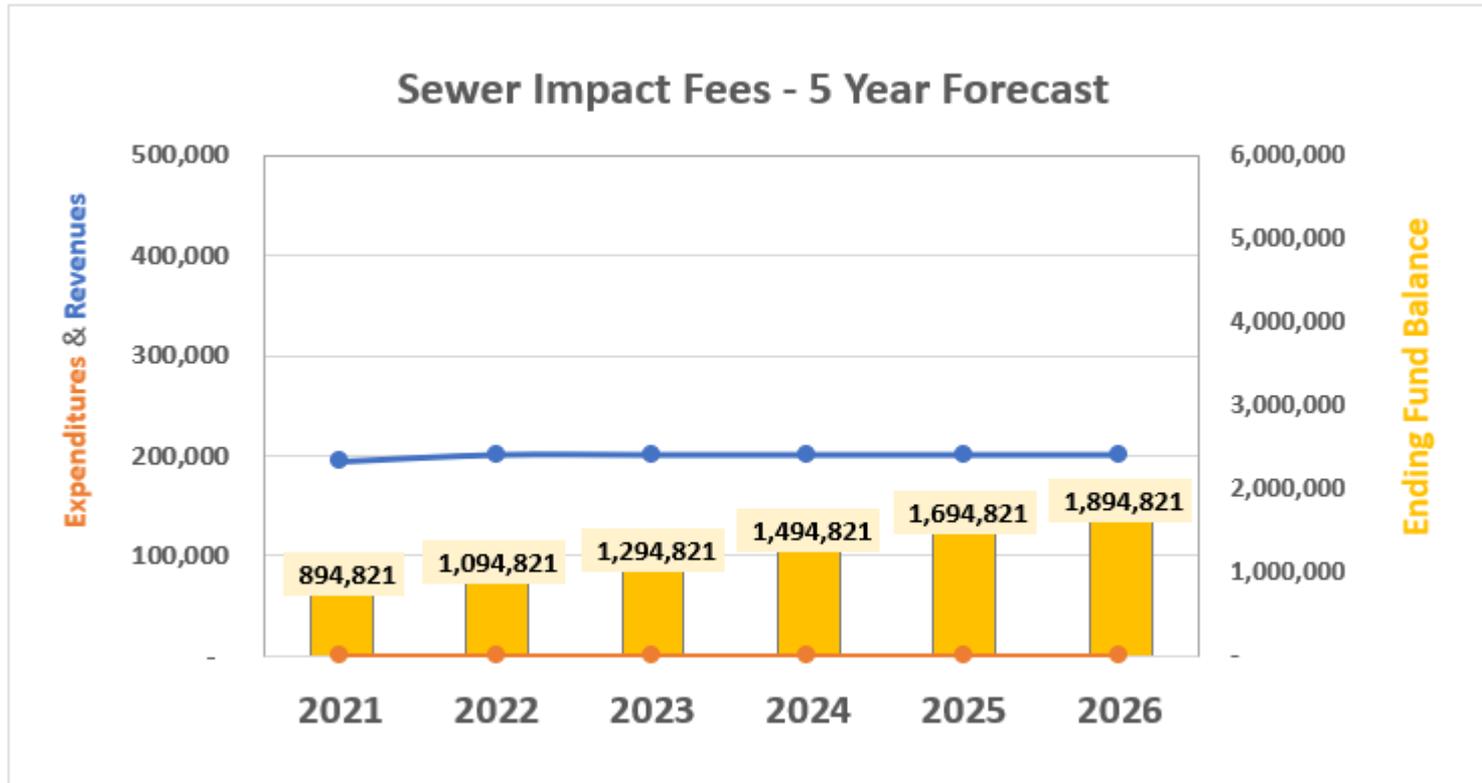
SEWER IMPACT FEES

Proposed 5 Year CIP

Capital Improvement Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
None	-	-	-	-	-
Grand Total (Net Cost)	-	-	-	-	-

SEWER IMPACT FEES

5 Year Sewer Impact Cash Forecast



Long term strategy for Sewer Impact Cash is to build fund balance for major growth necessitated projects (such as the Wastewater Plant Expansion project) with engineering and construction planned in 5+ years.

Combined Water/Wastewater Financing Options: SRF vs. COP

Financing Options	Pros and Cons
SRF (State Revolving Fund)	Pro: Slightly lower interest rate Con: Subject to prioritization of projects through application process and limitations on project timeline.
COP (Certificate of Participation)	Pro: Greater flexibility on issuing debt in conjunction with project timeline. No application process. Con: Slightly higher interest rate

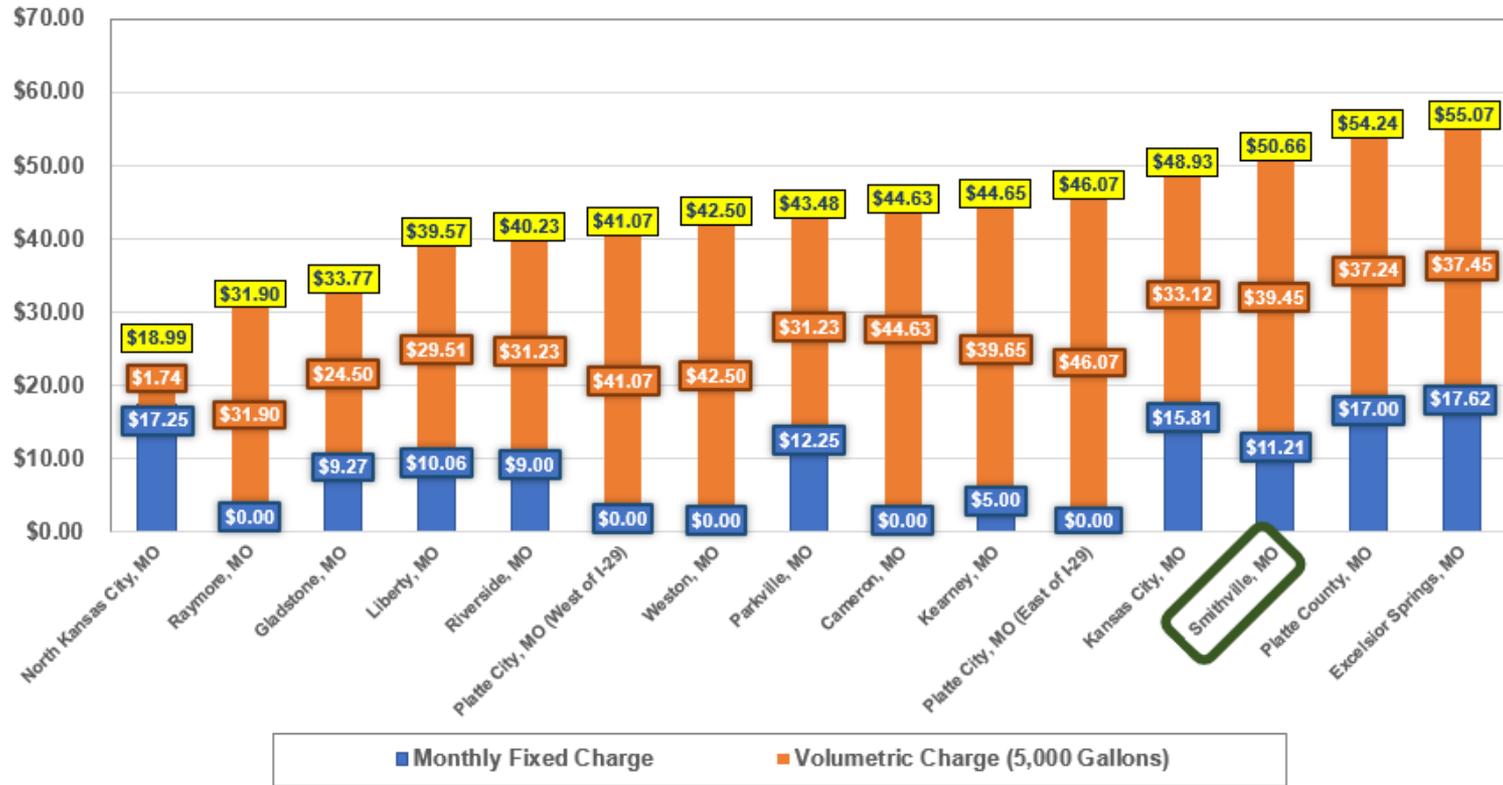


Utility Rate Comparisons

2021 Update

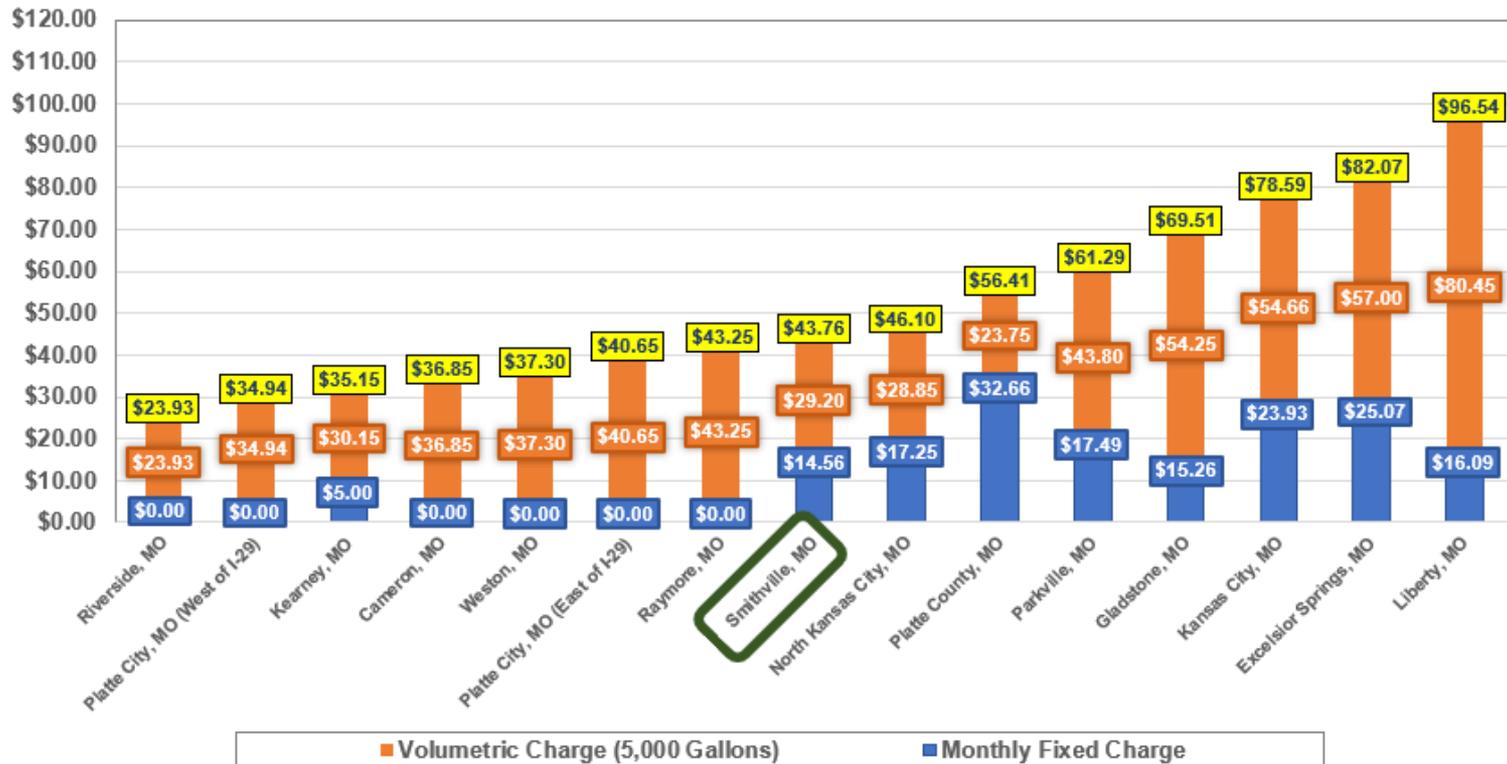
UTILITY RATE COMPARISON 2021 UPDATE - WATER

Residential (3/4") Water Rate Comparison Based Upon 5,000 Gallons Used in Month
(Volumetric Charge, Fixed Charge, and Total Charge)



UTILITY RATE COMPARISON 2021 UPDATE - SEWER

Residential (3/4") Sewer Rate Comparison Based Upon 5,000 Gallons Used in Month
(Volumetric Charge, Fixed Charge, and Total Charge)

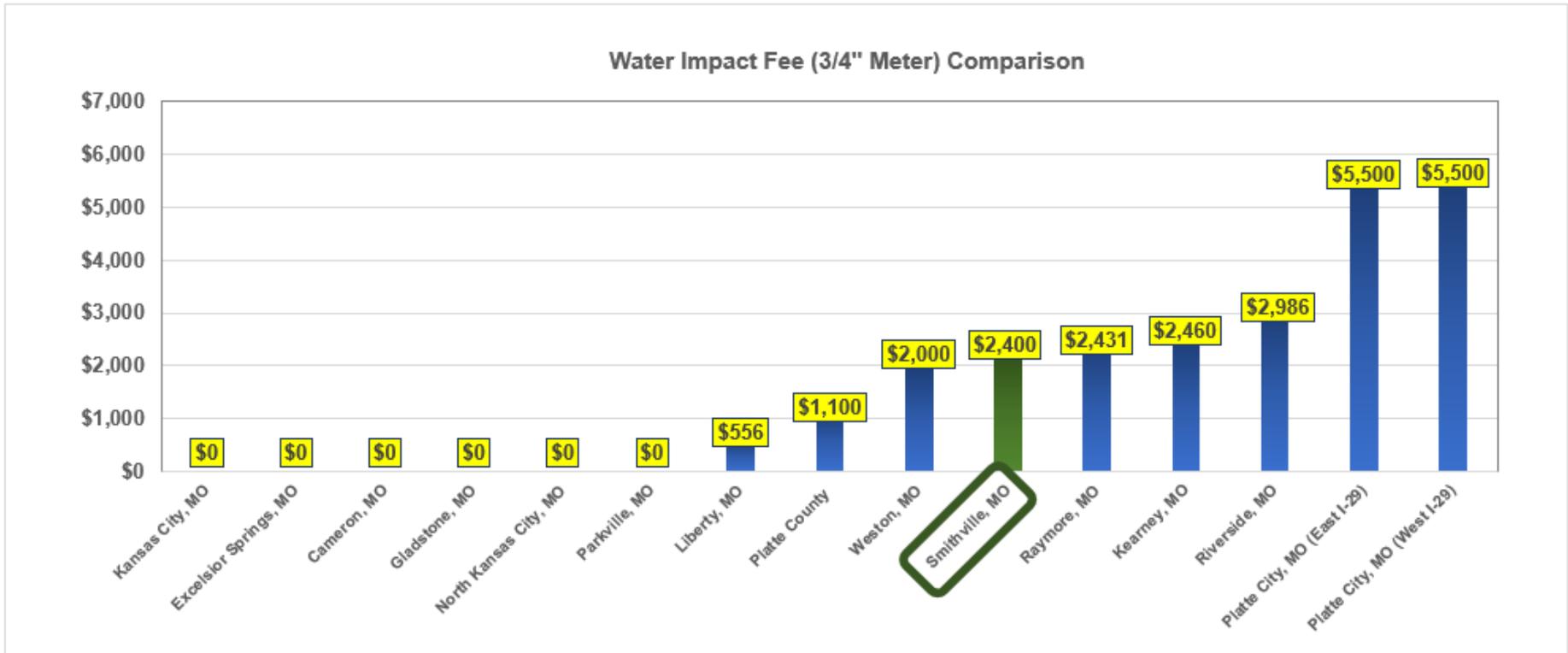


UTILITY RATE COMPARISON 2021 UPDATE – WATER & SEWER

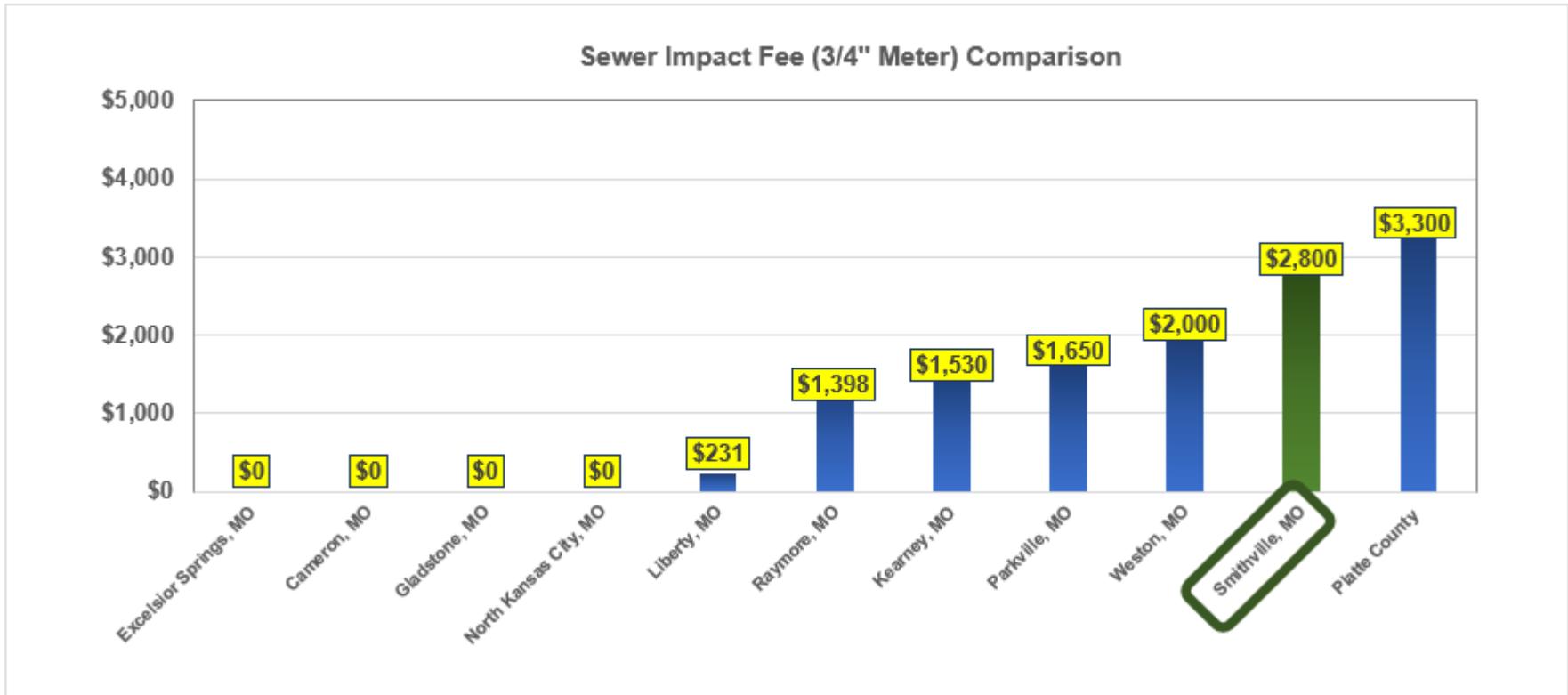
Total Monthly Utility Bill (Excludes Trash Charge)
(Based Upon 5,000 Gallons for Water and Sewer)



UTILITY RATE COMPARISON 2021 UPDATE – WATER IMPACT



UTILITY RATE COMPARISON 2021 UPDATE – SEWER IMPACT



CONCLUSION

- Staff is recommending the selection of **Alternate #1** (West Bypass of 144th Street Lift Station) for a south sewer solution. Staff is looking for input or approval from the Board of Alderman for the project.
- Staff is continuing to update the Utility Rate Model to generate the necessary utility rates needed to support debt issuance to pay for project.