Smithville

Water and Sewer Rate Study

Final Report / August 8, 2022



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Executive Summary

The City of Smithville engaged Raftelis Financial Consultants, Inc. (Raftelis) to develop water and sewer financial plans and develop rates for the five-year study period. The general objective of the financial planning process is to determine the level of rate revenue required to provide for the financial sustainability of the utilities into the future ensure that the water and sewer utilities are financially independent. The City requires strong rate increases in order to maintain adequate reserve balances and fund a large capital program.

STUDY PROCESS

Raftelis worked closely with City staff to conduct the rate study. The study primarily focused on the development of new rates. The general objective of the financial planning process is to arrive at the level of rate revenue required to provide for the financial sustainability of the utilities into the future. This report also includes a recommendation for revised Impact Fees.

Findings and Recommendations – Water and Sewer Rates

FINANCIAL PLAN

Current rates are not adequate to fund the provision of safe and reliable water and sewer service in the future. Accordingly, Raftelis proposes a schedule of rate increases to begin in FY 2023. These will continue through at least FY 2027 to adequately fund required capital improvements and develop a healthy reserve fund balance.

Raftelis recommends approximately 12% annual rate adjustments through 2027. This will ensure that the City will have the ability to maintain safe and reliable drinking water and sewage disposal systems while fairly recovering costs. Figure 1 presents the proposed financial plan. Figure 2 tracks the end of year fund balance against a target of 25% of expenses (operation and maintenance expense and debt service). This target is expected to be met each year of the study period.

The City's Impact Fees for newly connected customers should be updated. The City's current fees scale linearly with the size of the customers water meter, while industry practices suggest that fees should in proportion to the maximum water flow rates the meter can provide. Making this change, along with an adjustment of the base fee for a ¾" meter, will more fairly recover costs from the customers who have the largest impact on the system.

Figure 1: Proposed Financial Plan

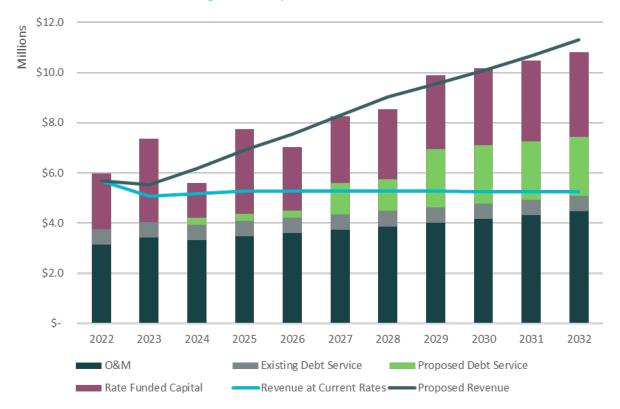
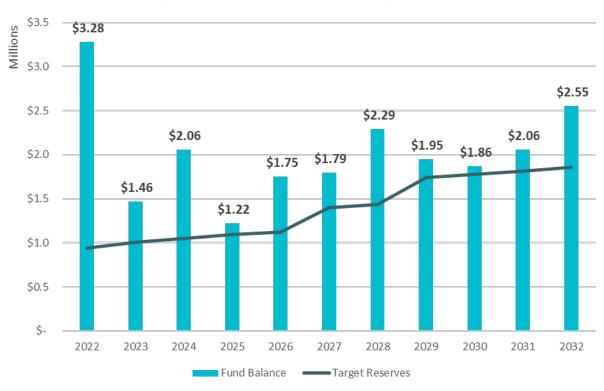


Figure 2: Combined Utility Operating Reserve



\$256.90 \$240.91 \$225.93 \$211.95 \$198.90 \$180.07 \$160.72 \$143.58 \$128.37 \$114.86 \$102.84 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032

Figure 3: Monthly Bill of 5,000 Gallons

Introduction

The City of Smithville engaged Raftelis Financial Consultants, Inc. (Raftelis) to develop water and sewer financial plans and develop a five-year rate schedule to meet the City's financial needs.

■ Water ■ Sewer

FINANCIAL PLAN

The general objective of the financial planning process is to arrive at the level of rate revenue required to provide for the financial sustainability of the utilities into the future. For this study, the financial plan was developed for a five-year forecast period¹. The forecast period uses the City's fiscal year, which runs from November 1 to October 31. Each year shown in the forecast refers to the year ending October 31. Separate financial plans for the water and sewer utilities were developed to analyze the needs of each utility independently.

Financial Planning Methodology

The primary objective of financial planning involves comparing forecasted utility revenues under existing rates to forecasted expenditures and determining what annual adjustments to revenues are necessary to ensure the financial viability of the water and sewer utilities. This involves three steps:

First, a forecast of revenue under existing rates forms the baseline against which any revenue adjustments will be made. Second, a forecast of operating and capital expenses establishes the costs which will need to be recovered from utility rates. The final step involves a detailed cash flow forecast and an evaluation of what rate revenue

¹ This report focuses on the five-year study period. However, forecasts through 2032 are included in the appendix.

adjustments are needed for ongoing financial sustainability. Evaluating financial sustainability involves several key principles.

The utility should maintain the ability to deal with unanticipated declines in revenue or emergency expenditures without reducing service quality or dramatically increasing rates. While typical liquidity measures include operating expenses only, we recommend evaluating liquidity with debt service included as this remains an obligation of the utility, regardless of any unforeseen events. Based on discussion with City Staff this financial plan targets 25% of operating expenses and debt service. This can be used for working capital (timing differences in revenues and expenditures), temporary revenue shortfalls, or emergency capital repairs.

When possible, rates should also be set to maintain a program of gradual, modest increases to avoid large increases to deal with future expenses. For example, the City must ensure the ability to make debt service payments on significant levels of debt service on proposed debt expected to begin in FY 2029. A longer series of more modest rate increases is more equitable for customers than postponing adjustments and requiring painfully large rate increases in the future.

Financial Plan

Forecast of Revenue at Existing Rates

Figure 4 indicates the forecast of water revenue at existing rates. To establish a baseline of demand, Raftelis reviewed historical account and water usage data. The forecast is based on data from 2019 to 2021, as well as a partial year of data from 2022.

Demand Growth

The forecast includes a forecast of new customer accounts in each year of the study period based on expected development. The study includes 100 new accounts in 2023, 125 in 2024 and 2025, and 25 each year thereafter.

The forecast also includes assumptions regarding elasticity of demand, or how much water sales will decrease in response to the cost of water increasing. Raftelis assumed a decrease in annual consumption per account of approximately 2.9% of water use and 1.2% of sewer use resulting from the proposed rate increases.

Figure 4: Revenue at Current Rates

| Revenue at Current | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Rates | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| | | | | | | |
| Water Revenue | | | | | | |
| Fixed Charge | 607,855 | 621,979 | 639,634 | 657,289 | 660,820 | 664,351 |
| Retail Volume | 2,051,450 | 2,076,723 | 2,111,683 | 2,145,776 | 2,138,404 | 2,131,005 |
| Wholesale Volume | 211,157 | 211,157 | 211,157 | 211,157 | 211,157 | 211,157 |
| Total | \$ 2,870,462 | \$ 2,909,859 | \$ 2,962,474 | \$ 3,014,222 | \$ 3,010,381 | \$ 3,006,513 |
| Sewer Revenue | | | | | | |
| Fixed Charge | \$ 787,618 | \$ 806,842 | \$ 830,872 | \$ 854,902 | \$ 859,708 | \$ 864,514 |
| Volume Charge | 1,163,430 | 1,179,549 | 1,202,298 | 1,224,473 | 1,219,000 | 1,213,513 |
| Total | \$ 1,951,048 | \$ 1,986,392 | \$ 2,033,170 | \$ 2,079,375 | \$ 2,078,708 | \$ 2,078,028 |

Forecast of Expenses

OPERATING EXPENSES

Operating expenses are those which the utility incurs on a consistent day-to-day basis and which generally do not involve the construction of a capital asset. Raftelis and City staff reviewed the FY 2023 budget and compared it to historical actual spending and found it to be a reasonable basis for the O&M forecast. For future years, Raftelis applied the inflation rates shown in **Figure 6** to the relevant budget line item to develop a long term forecast of O&M. **Figure 5** shows the forecast of operating expenses.

Figure 5: Forecast of O&M

| Operations and | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maintenance Summary | Budget | Budget | Forecast | Forecast | Forecast | Forecast |
| | | | | | | |
| Operating Expenses | | | | | | |
| Water | \$ 1,565,946 | \$ 1,797,311 | \$ 1,630,531 | \$ 1,709,393 | \$ 1,766,438 | \$ 1,825,896 |
| Sewer | 1,578,122 | 1,617,156 | 1,687,635 | 1,772,788 | 1,838,128 | 1,906,633 |
| Total | \$ 3,144,068 | \$ 3,414,467 | \$ 3,318,166 | \$ 3,482,181 | \$ 3,604,566 | \$ 3,732,529 |

Figure 6: O&M Inflation Rates

| Escalation Factors | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|----------------------|----------|----------|----------|----------|
| Escalation Factors | Forecast | Forecast | Forecast | Forecast |
| | | | | |
| Category | | | | |
| Salaries and Wages | 5.0% | 5.0% | 3.0% | 3.0% |
| Benefits | 8.0% | 8.0% | 8.0% | 8.0% |
| Electricity | 5.0% | 5.0% | 5.0% | 5.0% |
| General | 5.0% | 5.0% | 3.0% | 3.0% |
| Fuel | 8.0% | 8.0% | 5.0% | 5.0% |
| Contracted Services | 5.0% | 5.0% | 3.0% | 3.0% |
| Wastewater Treatment | 7.5% | 7.5% | 7.5% | 7.5% |

CAPITAL EXPENSES

Capital expenses are incurred to make improvements to water or sewer system assets. Major projects include improvements and expansion at the water treatment plan, an expansion at the wastewater treatment plant, and significant gravity line improvements. The capital plan also includes miscellaneous distribution or collection system projects throughout the study period. A detailed plan of these project types is not available beyond 2024; Raftelis forecasted additional future water and sewer projects at a total of \$2 million (in current year dollars) beginning in 2025 and extending through 2032. **Figure 7** indicates the capital improvement program (CIP), as provided by City staff. Financing for these projects will be discussed in detail below.

Figure 7: Capital Improvement Program

| Capital Projects | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
|---|--------------------|----------------------|--------------|--------------|---------------|--------------|---------------|
| | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| CIP Inflation Rate | | 7.0% | 7.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| Cumulative Inflation | 100.0% | 107.0% | 114.5% | 120.2% | 126.2% | 132.5% | 139.2% |
| Water Projects | | | | | | | |
| Tower Interconnect at Amory/169 (Construction) | | \$ 50,000 | | | | | |
| Quincy Water Line - Hawthorne/Quincy to Pine (Engine | | 150,000 | | | | | |
| Quincy Water Line - Hawthorne/Quincy to Pine (Constru | uction) | 500,000 | | | | | |
| 4th Street and 4th Terrace (Construction) | • | 500,000 | | | | | |
| Winner and Woods - Waterline Replacement (Engineer | 0, | 150,000 | | | | | |
| Winner and Woods - Waterline Replacement (Construc Water Plant Improvements (E and C) | uon) | 500,000 1,000,000 | | | | | |
| Interconnect Mains at 144th/169 Highway (Construction | .) | 1,000,000 | 55,000 | | | | |
| Maple Lane (12" Waterline) (Engineering) | ') | | 125,000 | | | | |
| Highway 92 & Commercial Waterline (Engineering) | | | 125,000 | | | | |
| Maple Lane (12" Waterline) (Construction) | | | 223,000 | 500,000 | | | |
| Highway 92 & Commercial Waterline (Construction) | | | | 300,000 | | | |
| Primary and Secondary Sedimentation Basins | | | | , | 1,293,158 | | 5,113,853 |
| Increase WTP Filter Capacity | | | | | 987,503 | | 3,950,011 |
| 4th and 4th Engineering | 30,000 | | | | | | |
| Raw Water Pump Station Engineering | 100,000 | | | | | | |
| 4rd Street and 4th Terrace Water | 150,000 | | | | | | |
| Raw Water Pump Station | 805,495 | | | | | | |
| Additional Future Water Projects | - | | | 1,500,000 | 1,500,000 | 1,500,000 | 1,500,000 |
| Subtotal Current Year Capital Projects | \$ 1,085,495 | \$ 2,850,000 | \$ 305,000 | \$ 2,300,000 | \$ 3,780,661 | \$ 1,500,000 | \$ 10,563,864 |
| Subtotal Future Year Capital Projects | \$ 1,085,495 | \$ 3,049,500 | \$ 349,195 | \$ 2,764,934 | \$ 4,772,148 | \$ 1,988,047 | \$ 14,701,023 |
| Sewer Projects | | | | | | | |
| 144th Street Lift Station (Construction) | | \$ 1,700,000 | | | | | |
| West Bypass 144th Lift Station (Construction) | | 2,200,000 | | | | | |
| Wastewater Plant - Bar Screen (Engineering) | | 250,000 | | | | | |
| Wastewater Plant - Bar Screen (Construction) | | | 900,000 | | | | |
| Owens Branch Gravity Line Phase #1, Line #1 (Construct | ion) | | 2,200,000 | | | | |
| Wastewater Treatment Plant Expansion (Engineering) | | | 545,849 | | | | |
| Owens Branch Gravity Line Phase #1, Line #2 (Engineeri | 0, | | | 600,000 | | | |
| Owens Branch Gravity Line Phase #1, Line #2 (Construct | ion) | | | | 2,500,000 | | |
| Wastewater Treatment Plant Expansion (Construction) | 4E0 000 | | | | 5,694,517 | | |
| Floating Aerator West Bypass Engineering | 450,000 350,000 | | | | | | |
| 4th and 4th Engineering | 30,000 | | | | | | |
| 4th Street and 4th Terrace Sewer | 150,000 | | | | | | |
| Woods Court Lift Station | 40,000 | | | | | | |
| Highland Drive Sewer Improvements | 100,000 | | | | | | |
| Additional Future Sewer Projects | | | | 500,000 | 500,000 | 500,000 | 500,000 |
| Subtotal Current Year Capital Projects | \$ 1,120,000 | \$ 4,150,000 | \$ 3,645,849 | \$ 1,100,000 | \$ 8,694,517 | \$ 500,000 | \$ 500,000 |
| Subtotal Future Year Capital Projects | | | \$ 4,174,132 | | \$ 10,974,674 | | |
| | - | - | | | | | |
| Total Current Year Capital Projects | | | \$ 3,950,849 | | \$ 12,475,178 | | \$ 11,063,864 |
| Total Future Year Capital Projects | \$ 2,205,495 | \$ 7,490,000 | \$ 4,523,327 | \$ 4,087,293 | \$ 15,746,822 | \$ 2,650,730 | \$ 15,396,839 |
| | | | | | | | |

CAPITAL FINANCING

The capital financing plan includes debt financing, which assumes borrowing funds to finance major projects, and ongoing rate funded capital, which should be a regular annual cash expense to cover ongoing upgrades and repairs. The plan in **Figure 8** was developed to fully fund the CIP shown above after adjusting projects costs for expected inflation. The plan includes debt each year from 2023-2026; the uses for this debt are shown in **Figure 9**.

Figure 8: Capital Financing Plan

| Water Capital Financing | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
|---|---------------------|------------------------------|---------------------------------|--------------------------------------|--------------------------|---------------------|---------------------|
| Plan | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| Sources of Funds Beginning Balance | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 12,613,573 | \$ 12,613,573 |
| Rate Funded Capital Proposed Debt | 1,085,495 | 3,049,500 | 349,195 | 2,764,934 | 1,893,378 15,492,343 | 1,988,047 | 2,087,450 |
| Subtotal | \$ 1,085,495 | \$3,049,500 | \$ 349,195 | \$ 2,764,934 | \$ 17,385,721 | \$ 14,601,621 | \$ 14,701,023 |
| CIP Projects | \$ 1,085,495 | \$3,049,500 | \$ 349,195 | \$ 2,764,934 | \$ 4,772,148 | \$ 1,988,047 | \$ 14,701,023 |
| Ending Balance | \$ - | \$ - | \$ - | \$ - | \$ 12,613,573 | \$ 12,613,573 | \$ - |
| | | | | | | | |
| Sower Capital Financing | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Sewer Capital Financing Plan | FY 2022 Forecast | FY 2023 Forecast | FY 2024 Forecast | FY 2025 Forecast | FY 2026 Forecast | FY 2027 Forecast | FY 2028 Forecast |
| | | | | | | • | |
| Plan | Forecast | Forecast | | | | Forecast | |
| Plan Sources of Funds Beginning Balance Rate Funded Capital | Forecast \$ - | \$ - 267,500 | \$ - 1,030,410 | \$ 7,187,917 601,073 | Forecast \$10,343,548 | Forecast \$ - | Forecast \$ - |
| Plan Sources of Funds Beginning Balance Rate Funded Capital Proposed Debt | \$ - 1,120,000 | \$ - 267,500 4,173,000 | \$ - 1,030,410 10,331,640 | \$ 7,187,917 601,073 3,876,918 | \$ 10,343,548 631,126 | \$ - 662,682 | \$ - 695,817 |

Figure 9: Proposed Debt Issues

| Debt Issue Summary | Project Amount | Year | Projects |
|-----------------------|-------------------|------|--|
| Water Debt Issue 1 | \$ 15,492,343 | 2026 | Primary and Secondary Sedimentation Basins & Increase WTP Filter Capacity |
| Sewer Debt | | | |
| Issue 1 | \$ 4,173,000 | 2023 | 144th Street Lift Station (Construction) & West Bypass 144th Lift Station (Construction) |
| Issue 2 | 7,812,860 | 2024 | Wastewater Treatment Plant Expansion (Engineering) & Wastewater Treatment Plant Expansion (Construction) |
| Issue 3 | 2,518,780 | 2024 | Owens Branch Gravity Line Phase #1, Line #1 (Construction) |
| Issue 4 | 3,876,918 | 2025 | Owens Branch Gravity Line Phase #1, Line #2 (Engineering) & Owens Branch Gravity Line Phase #1, Line #2 (Construction) |

Cash Flow Forecast

The final step in the financial planning process involves compiling a cash flow forecast which identifies the revenue adjustments necessary to ensure financial sustainability. Expenses include operating and maintenance expenses related to administrative overhead, operating the distribution system, debt service, and ongoing rate funded capital. As indicated by **Figure 10**, revenues are not sufficient to meet current expenses. The rate revenue adjustments

indicated below will ensure revenues continue to cover expenses and maintain reserve balances. The total proposed rate increases of approximately 12% per year are comprised of 8.5% increases to water rates and 15% increases to sewer rates.

Figure 10: Cash Flow Forecast

| Combined Hillity Cook Flow | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | | FY 2026 | FY 2027 | | |
|------------------------------|---------|-----------|---------|-------------|---------|-----------|---------|-----------|----------|-----------|----------|-----------|--|
| Combined Utility Cash Flow | | Budget | | Forecast | | Forecast | | Forecast | Forecast | | Forecast | | |
| Proposed Rate Increase | | | | 11.7% | | 11.8% | | 11.8% | | 11.9% | | 12.0% | |
| Revenue | | | | | | | | | | | | | |
| Current Rate Revenue | \$ | 4,687,000 | \$ | 4,821,782 | \$ | 4,845,631 | \$ | 4,867,039 | \$ | 4,790,958 | \$ | 4,716,673 | |
| Additional Rate Revenue | | - | | 538,071 | | 1,150,064 | | 1,845,678 | | 2,582,968 | | 3,394,935 | |
| Misc. Revenues | | 994,834 | | 176,172 | | 185,818 | | 191,738 | | 183,367 | | 188,657 | |
| Total | \$ | 5,681,834 | \$ | 5,536,025 | \$ | 6,181,513 | \$ | 6,904,455 | \$ | 7,557,292 | \$ | 8,300,264 | |
| Expenses | | | | | | | | | | | | | |
| O&M | \$ | 3,144,068 | \$ | 3,414,467 | \$ | 3,318,166 | \$ | 3,482,181 | \$ | 3,604,566 | \$ | 3,732,529 | |
| Existing Debt | | 619,350 | | 622,600 | | 614,850 | | 616,600 | | 622,350 | | 620,050 | |
| Proposed Debt | | - | | - | | 276,844 | | 276,844 | | 276,844 | | 1,253,338 | |
| Rate Funded Capital | | 2,205,495 | | 3,317,000 | | 1,379,605 | | 3,366,006 | | 2,524,505 | | 2,650,730 | |
| Total | \$ | 5,968,913 | \$ | 7,354,067 | \$ | 5,589,465 | \$ | 7,741,631 | \$ | 7,028,264 | \$ | 8,256,646 | |
| Financial Performance | | | | | | | | | | | | | |
| Contribution to Reserves | \$ | (287,078) | \$ | (1,818,042) | \$ | 592,048 | \$ | (837,175) | \$ | 529,028 | \$ | 43,618 | |
| Operating Reserve | | | | | | | | | | | | | |
| Beginning Balance | \$ | 3,569,659 | \$ | 3,282,581 | \$ | 1,464,539 | \$ | 2,056,587 | \$ | 1,219,411 | \$ | 1,748,439 | |
| Contribution to Reserves | | (287,078) | | (1,818,042) | | 592,048 | | (837,175) | | 529,028 | | 43,618 | |
| Ending Balance | \$ | 3,282,581 | \$ | 1,464,539 | \$ | 2,056,587 | \$ | 1,219,411 | \$ | 1,748,439 | \$ | 1,792,057 | |
| Target Balance | | 940,854 | | 1,009,267 | | 1,052,465 | | 1,093,906 | | 1,125,940 | | 1,401,479 | |
| Debt Service Coverage Ratios | | | | | | | | | | | | | |
| Debt Service | \$ | 619,350 | \$ | 622,600 | \$ | 891,694 | \$ | 893,444 | \$ | 899,194 | \$ | 1,873,388 | |
| Net Revenue Available | | 2,537,767 | | 2,121,558 | | 2,863,346 | | 3,422,275 | | 3,952,727 | | 4,567,735 | |
| DSCR | | 4.09 | | 3.40 | | 3.21 | | 3.83 | | 4.39 | | 2.43 | |

Rates and Customer Impacts

The City currently has a fixed monthly charge based on meter size as well as a volumetric charge per 1,000 gallons of water used. Raftelis proposes increasing water rates by 8.5% per year and sewer rates by 15% per year from 2023 to 2027.

Figure 11: Proposed Rates

| Water Rates | F' | FY 2022 | | Y 2023 | FY 2024 | | FY 2025 | | FY 2026 | | F' | Y 2027 |
|--------------------------|----|---------|---------|---------|---------|---------|---------|----------|---------|----------|---------|---------|
| water Rates | Δ | ctual | Fo | orecast | F | orecast | Fo | Forecast | | Forecast | | orecast |
| | | | | | | | | | | | | |
| Service Charge | | | | | | | | | | | | |
| 1" or Smaller | \$ | 11.77 | \$ | 12.78 | \$ | 13.87 | \$ | 15.05 | \$ | 16.33 | \$ | 17.72 |
| 2" | | 55.62 | | 60.35 | | 65.48 | | 71.05 | | 77.09 | | 83.65 |
| 3" | | 109.15 | | 118.43 | | 128.50 | | 139.43 | | 151.29 | | 164.15 |
| 4" | | 170.29 | | 184.77 | | 200.48 | | 217.53 | | 236.03 | | 256.10 |
| 6" | | 339.92 | | 368.82 | | 400.17 | | 434.19 | | 471.10 | | 511.15 |
| - | | | | | | | | | | | | |
| Volume Rate (1,000 Gal.) | | | | | | | | | | | | |
| Retail | \$ | 8.33 | \$ | 9.04 | \$ | 9.81 | \$ | 10.65 | \$ | 11.56 | \$ | 12.55 |
| Wholesale | | 4.98 | | 5.41 | - | 5.87 | • | 6.37 | | 6.92 | | 7.51 |
| | | | | | | | | | | | | |
| Oanna Batas | F` | Y 2022 | FY 2023 | | FY 2024 | | FY 2025 | | FY 2026 | | FY 2027 | |
| Sewer Rates | Δ | ctual | Fo | orecast | Fo | orecast | Fo | orecast | Fo | orecast | Fo | orecast |
| | | | | | | | | | | | | |
| Service Charge | | | | | | | | | | | | |
| 1" or Smaller | \$ | 16.02 | \$ | 18.43 | \$ | 21.20 | \$ | 24.38 | \$ | 28.04 | \$ | 32.25 |
| 2" | | 77.46 | | 89.08 | | 102.45 | | 117.82 | | 135.50 | | 155.83 |
| 3" | | 164.52 | | 189.20 | | 217.58 | | 250.22 | | 287.76 | | 330.93 |
| 4" | | 238.13 | | 273.85 | | 314.93 | | 362.17 | | 416.50 | | 478.98 |
| 6" | | 474.42 | | 545.59 | | 627.43 | | 721.55 | | 829.79 | | 954.26 |
| | | | | | | | | | | | | |
| Volume Rate (1,000 Gal.) | \$ | 6.68 | \$ | 7.69 | \$ | 8.85 | \$ | 10.18 | \$ | 11.71 | \$ | 13.47 |

BILL IMPACTS

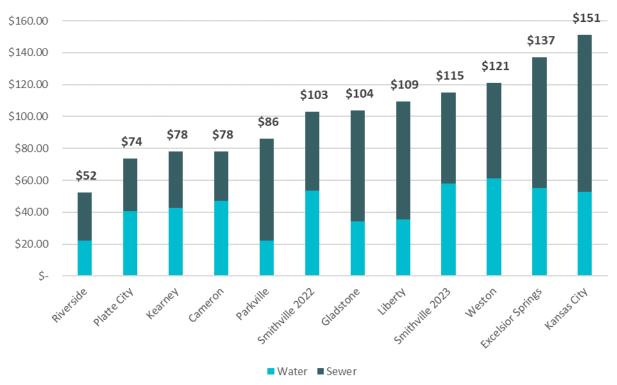
Figure 12 shows an example of a monthly water, sewer, and combined bill at various levels of water use. Overall, the combined water and sewer increase is approximately 12% per year through 2027. Utility bills will be 75% higher in 2027 than they are under current 2022 rates.

Figure 13 shows a comparison of Smithville's current and proposed water and sewer bills to a sample of current rates in the surrounding region. Overall, Smithville's combined utility bills are currently near the median for the area. It is important to remember that different systems have different needs and are not necessarily directly comparable.

Figure 12: Bill Impacts

| Figure 12: Bill impacts | | | | | | | | | |
|--------------------------|-------------|-----------|-----------|-----------|-----------|-----------|---------------------|--|--|
| Sample Wa | tor Rille | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | | |
| Sample wa | ter bills | Actual | Forecast | Forecast | Forecast | Forecast | Forecast | | |
| | | | | | | | | | |
| Meter Size | Volume | | | | | | | | |
| 1" or Smaller | 3 | \$ 36.76 | \$ 39.90 | \$ 43.30 | \$ 47.00 | \$ 51.01 | \$ 55.37 | | |
| 1" or Smaller | 5 | 53.42 | 57.98 | 62.92 | 68.30 | 74.13 | 80.47 | | |
| 1" or Smaller | 10 | 95.07 | 103.18 | 111.97 | 121.55 | 131.93 | 143.22 | | |
| 2" | 20 | 222.22 | 241.15 | 261.68 | 284.05 | 308.29 | 334.65 | | |
| 2" | 50 | 472.12 | 512.35 | 555.98 | 603.55 | 655.09 | 711.15 | | |
| 4" | 100 | 1,003.29 | 1,088.77 | 1,181.48 | 1,282.53 | 1,392.03 | 1,511.10 | | |
| 4" | 1,000 | 8,500.29 | 9,224.77 | 10,010.48 | 10,867.53 | 11,796.03 | 12,806.10 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Sample Sev | ver Bills | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | | |
| | | Actual | Forecast | Forecast | Forecast | Forecast | Forecast | | |
| NA - 4 C' | | | | | | | | | |
| Meter Size | Volume | ¢ 20.00 | ć 41 FO | ć 47.7F | Ć F4.02 | ć co. 47 | ć 7 2.66 | | |
| 1" or Smaller | 3 | \$ 36.06 | \$ 41.50 | \$ 47.75 | \$ 54.92 | \$ 63.17 | \$ 72.66 | | |
| 1" or Smaller | 5 | 49.42 | 56.88 | 65.45 | 75.28 | 86.59 | 99.60 | | |
| 1" or Smaller 2" | 10 | 82.82 | 95.33 | 109.70 | 126.18 | 145.14 | 166.95 | | |
| 2" | 20 | 211.06 | 242.88 | 279.45 | 321.42 | 369.70 | 425.23 | | |
| 2 4" | 50 | 411.46 | 473.58 | 544.95 | 626.82 | 721.00 | 829.33 | | |
| 4 4" | 100 | 906.13 | 1,042.85 | 1,199.93 | 1,380.17 | 1,587.50 | 1,825.98 | | |
| 4 | 1,000 | 6,918.13 | 7,963.85 | 9,164.93 | 10,542.17 | 12,126.50 | 13,948.98 | | |
| | | | | | | | | | |
| | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | | |
| Combined | Bills | Actual | Forecast | Forecast | Forecast | Forecast | Forecast | | |
| | | | | | | | | | |
| Meter Size | Volume | | | | | | | | |
| 1" or Smaller | 3 | \$ 72.82 | \$ 81.40 | \$ 91.05 | \$ 101.92 | \$ 114.18 | \$ 128.03 | | |
| 1" or Smaller | 5 | 102.84 | 114.86 | 128.37 | 143.58 | 160.72 | 180.07 | | |
| 1" or Smaller | 10 | 177.89 | 198.51 | 221.67 | 247.73 | 277.07 | 310.17 | | |
| 2" | 20 | 433.28 | 484.03 | 541.13 | 605.47 | 677.99 | 759.88 | | |
| 2" | 50 | 883.58 | 985.93 | 1,100.93 | 1,230.37 | 1,376.09 | 1,540.48 | | |
| 4" | 100 | 1,909.42 | 2,131.62 | 2,381.41 | 2,662.70 | 2,979.53 | 3,337.08 | | |
| 4" | 1,000 | 15,418.42 | 17,188.62 | 19,175.41 | 21,409.70 | 23,922.53 | 26,755.08 | | |
| | • | · | • | • | · | · | • | | |
| | | | | | | | | | |
| Combined Annual Increase | | | 11.69% | 11.76% | 11.85% | 11.94% | 12.04% | | |
| Cumulative Cor | nbined Incr | ease | 11.69% | 24.82% | 39.61% | 56.28% | 75.10% | | |
| | | | | | | | | | |





Impact Fees

Introduction

Impact fees are intended to allow new customers to "buy in" to an existing water or sewer system. Existing users, through service charges, tax contributions, and other up-front charges, have developed a valuable public capital facility that has sufficient capacity to accommodate new development or redevelopment to a more intensive use. These charges ensure that new customers are on an equal equity footing with existing customers. The charges are intended to cover backbone assets, such as treatment assets or transmission and collection mains.

Raftelis has identified a key aspect of the City's current impact fee policy that should be modified. The current fees increase according to the size of the meter linearly; the fee for a two-inch meter is twice the fee for a one-inch meter. Raftelis recommends adjusting this scale in proportion to the flow capacity of the meter according to the AWWA. In this case, a two-inch fee would be approximately 3.2 times a one-inch fee.

PROPOSED FEES

Raftelis used a hybrid approach that combines incremental and buy in calculations to develop the proposed impact fees. The incremental approach calculates the unit cost of providing an additional unit of capacity to the system. Since a major part of the capital program includes an expansion of the water treatment plant, Raftelis used this method to estimate the cost of a unit of water treatment capacity. The expected cost of the plant expansion is divided by the additional capacity it will provide for a unit cost of \$6.20 per gallon per day.

The system buy in approach provides an estimate of the cost of providing a unit of capacity based on the net equity of other existing assets, such as water supply and distribution. It calculates a connection fee based on the proportional cost of each users, both existing and future, share of the existing system capacity. The primary component of system value is the assets the utility uses to provide service. The value of these assets is escalated to replacement cost to better represent the current value of the system new customers are buying into. System value also includes a portion of fund balances as of the end of FY 2022. The system value is divided by an estimate of the system capacity for a unit cost of \$1.50 per gallon per day.

These costs are used to calculate a capital fee based on meter size, since potential capacity (peaking) demand is proportional to the potential flow through each meter size as established by the AWWA hydraulic capacity ratios. Water use data from existing customers is used to estimate maximum daily water demand for a customer with 1" meter at an assumed maximum day peaking factor of 2.5 times the average daily water use. The estimated max day demand of 402 gallons is multiplied by the total unit cost of \$7.69 to derive a total impact fee of \$3,092. This fee is multiplied by the meter equivalent capacity ratios shown in **Figure 15** and rounded to the nearest \$10 increment, as shown in **Figure 16**. Raftelis also reviewed the City's sewer impact fees and determined that the current fees are reasonable and can be maintained for a 1" meter; the only proposed change is to apply the same meter size based upon scaling to this charge.

Figure 14: Impact Fee Calculation

| Water Impact Fees | | FY 2022 |
|---|----|------------|
| Water Treatment Future Plant Expansion Cost | ς. | 15,492,343 |
| Add. Capacity (mgd) | Ψ. | 2.5 |
| Unit Cost (gpd) | \$ | 6.20 |
| Other Water Assets (RCNLD) | | |
| Supply | \$ | 775,783 |
| Pumping | | 201,914 |
| Storage | | 2,457,833 |
| Distribution | | 3,459,950 |
| Vehicles | | 28,096 |
| Subtotal | \$ | 6,923,576 |
| Water Utility Fund Balance (20%) | \$ | 555,103 |
| System Equity | \$ | 7,478,678 |
| Capacity | | 5.0 |
| Unit Cost (gpd) | \$ | 1.50 |
| Total Unit Cost (gpd) | \$ | 7.69 |
| Demand per Account (Gallons) | | |
| Retail Water Consumption | 2 | 46,272,533 |
| Equivalent Accounts | | 4,195 |
| Avg Day Use per Eq. Account | | 160.82 |
| Peaking Factor | | 2.5 |
| Max Day Demand | | 402.06 |
| Charge per 1" Meter | \$ | 3,092.91 |

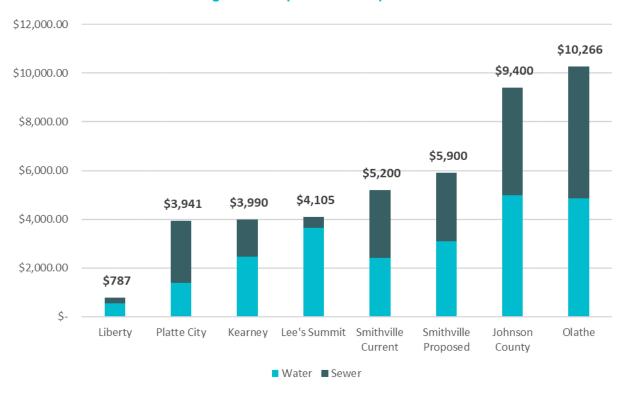
Figure 15: AWWA Equivalent Meter Ratios

| Meter Size | Capacity (gpm) | Ratio to 1" |
|---------------|-------------------|-------------|
| 1" | 50 | 1.0 |
| 2" | 160 | 3.2 |
| 3" | 350 | 7.0 |
| 4" | 630 | 12.6 |
| 6" | 1400 | 28.0 |

Figure 16: Impact Fee Schedule

| Impact Fee | | | С | urrent | | Proposed | | | | | | | | | | |
|-------------------|-------|--------|----|--------|-------------|----------|--------|----|--------|----|---------|--|--|--|--|--|
| Schedule | Water | | S | ewer | Total | | Water | 5 | Sewer | | Total | | | | | |
| | | | | | | | | | | | | | | | | |
| Meter Size | | | | | | | | | | | | | | | | |
| 1" | \$ | 2,400 | \$ | 2,800 | \$ 5,200 | \$ | 3,100 | \$ | 2,800 | \$ | 5,900 | | | | | |
| 2" | | 4,800 | | 5,600 | 10,400 | | 9,900 | | 8,960 | | 18,860 | | | | | |
| 3" | | 7,200 | | 8,400 | 15,600 | | 21,660 | | 19,600 | | 41,260 | | | | | |
| 4" | | 9,600 | | 11,200 | 20,800 | | 38,980 | | 35,280 | | 74,260 | | | | | |
| 6" | | 14,400 | | 16,800 | 31,200 | | 86,610 | | 78,400 | | 165,010 | | | | | |

Figure 17: Impact Fee Comparison



Appendix

| Water Hillian Cook Floor | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | | FY 2029 | FY 2030 | | FY 2031 | FY 2032 |
|---|--|--|--------------------------------------|---|--|--|--|----|--|--|----|--|--|
| Water Utility Cash Flow | Budget | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | ١ | Forecast | Forecast | I | Forecast | Forecast |
| Proposed Rate Increase | | 8.5% | 8.5% | 8.5% | 8.5% | 8.5% | 8.5% | | 8.5% | 8.5% | | 8.5% | 8.5% |
| Revenue Under Current Rates Additional Rate Revenue | \$ 2,737,000 | \$ 2,909,859 181,498 | \$ 2,962,474 381,422 | \$ 3,014,222 600,991 | \$ 3,010,381 826,811 | \$ 3,006,513 1,066,730 | \$ 3,002,618 1,334,265 | \$ | 2,998,699 1,650,541 | \$ 2,994,755 1,989,586 | \$ | 2,990,788 2,353,091 | \$ 2,986,799 2,743,133 |
| Subtotal: Rate Revenue | \$ 2,737,000 | \$ 3,091,357 | \$ 3,343,896 | \$ 3,615,212 | \$ 3,837,193 | \$ 4,073,243 | \$ 4,336,884 | \$ | 4,649,240 | \$ 4,984,341 | \$ | 5,343,879 | \$ 5,729,932 |
| Misc. Revenues | \$ 905,125 | \$ 91,672 | \$ 100,290 | \$ 114,934 | \$ 107,493 | \$ 110,341 | \$ 114,038 | \$ | 118,793 | \$ 114,211 | \$ | 111,163 | \$ 109,824 |
| Total | \$ 3,642,125 | \$ 3,183,029 | \$ 3,444,186 | \$ 3,730,147 | \$ 3,944,685 | \$ 4,183,584 | \$ 4,450,922 | \$ | 4,768,033 | \$ 5,098,551 | \$ | 5,455,041 | \$ 5,839,757 |
| Expenses Operations and Maintenance Existing Debt Service Proposed Debt Service Rate Funded Capital | \$ 1,565,946 - - 1,085,495 | \$ 1,797,311 - - 3,049,500 | \$ 1,630,531 - - 349,195 | \$ 1,709,393 - - - 2,764,934 | \$ 1,766,438 - - 1,893,378 | \$ 1,825,896 - - 1,988,047 | \$ 1,887,890 - - 2,087,450 | \$ | 1,952,552 - 1,081,932 2,191,822 | \$ 2,020,021 - 1,081,932 2,301,413 | \$ | 2,090,447 - 1,081,932 2,416,484 | \$ 2,163,986 - 1,081,932 2,537,308 |
| Total | \$ 2,651,441 | \$ 4,846,811 | \$ 1,979,726 | \$ 4,474,326 | \$ 3,659,817 | \$ 3,813,943 | \$ 3,975,340 | \$ | 5,226,306 | \$ 5,403,366 | \$ | 5,588,863 | \$ 5,783,227 |
| Financial Performance Contribution to Reserves | \$ 990,684 | \$ (1,663,782) | \$ 1,464,460 | \$ (744,179) | \$ 284,868 | \$ 369,641 | \$ 475,582 | \$ | (458,273) | \$ (304,815) | \$ | (133,821) | \$ 56,530 |
| Operating Reserve Beginning Balance Contribution to Reserves | 1,784,830 990,684 | \$ 2,775,513 (1,663,782) | \$ 1,111,731 1,464,460 | \$ 2,576,191 (744,179) | \$ 1,832,012 284,868 | \$ 2,116,881 369,641 | \$ 2,486,522 475,582 | \$ | 2,962,104 (458,273) | \$ 2,503,831 (304,815) | \$ | 2,199,016 (133,821) | \$ 2,065,195 56,530 |
| Ending Balance Target Balance | \$ 2,775,513 <i>391,487</i> | \$ 1,111,731 449,328 | \$ 2,576,191 <i>407,633</i> | \$ 1,832,012 <i>427,348</i> | \$ 2,116,881 <i>441,610</i> | \$ 2,486,522 <i>456,474</i> | \$ 2,962,104 <i>471,972</i> | \$ | 2,503,831 <i>758,621</i> | \$ 2,199,016 775,488 | \$ | 2,065,195 <i>793,095</i> | \$ 2,121,725 <i>811,480</i> |
| Debt Service Coverage Ratios Debt Service Net Revenue Available | \$ 2,076,179 | \$ 1,385,718 | \$ 1,813,654 | \$ 2,020,754 | \$ 2,178,247 | \$ 2,357,688 | \$ 2,563,032 | \$ | 1,081,932 2,815,482 | \$ 1,081,932 3,078,530 | \$ | 3,364,595 | \$ 1,081,932 3,675,770 |
| DSCR | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | 2.60 | 2.84 | | 3.10 | 3.39 |

| On the Health Court Ele | FY 2022 | | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 |
|---|--|----|--------------------------------------|--|--|--|--|--|--|--|--|--|
| Sewer Utility Cash Flow | Budget | ı | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| Proposed Rate Increase | | | 15.0% | 15.0% | 15.0% | 15.0% | 15.0% | 12.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| Revenue Under Current Rates Additional Rate Revenue | \$ 1,950,000 | \$ | 1,986,392 282,104 | \$ 2,033,170 618,629 | \$ 2,079,375 1,018,129 | \$ 2,078,708 1,458,025 | \$ 2,078,028 1,960,337 | \$ 2,077,335 2,417,980 | \$ 2,076,631 2,625,270 | \$ 2,075,916 2,842,157 | \$ 2,075,192 3,069,095 | \$ 2,074,458 3,306,642 |
| Subtotal: Rate Revenue | \$ 1,950,000 | \$ | 2,268,496 | \$ 2,651,799 | \$ 3,097,505 | \$ 3,536,733 | \$ 4,038,364 | \$ 4,495,315 | \$ 4,701,901 | \$ 4,918,073 | \$ 5,144,287 | \$ 5,381,100 |
| Misc. Revenues | \$ 89,710 | \$ | 84,500 | \$ 85,528 | \$ 76,804 | \$ 75,874 | \$ 78,316 | \$ 75,055 | \$ 75,258 | \$ 76,457 | \$ 78,657 | \$ 81,919 |
| Total | \$ 2,039,710 | \$ | 2,352,996 | \$ 2,737,327 | \$ 3,174,309 | \$ 3,612,607 | \$ 4,116,680 | \$ 4,570,371 | \$ 4,777,159 | \$ 4,994,531 | \$ 5,222,944 | \$ 5,463,019 |
| Expenses Operations and Maintenance Existing Debt Service Proposed Debt Service Rate Funded Capital | \$ 1,578,122 619,350 - 1,120,000 | \$ | 1,617,156 622,600 - 267,500 | \$ 1,687,635 614,850 276,844 1,030,410 | \$ 1,772,788 616,600 276,844 601,073 | \$ 1,838,128 622,350 276,844 631,126 | \$ 1,906,633 620,050 1,253,338 662,682 | \$ 1,978,489 622,450 1,253,338 695,817 | \$ 2,053,894 619,400 1,253,338 730,607 | \$ 2,133,058 621,050 1,253,338 767,138 | \$ 2,216,207 621,675 1,253,338 805,495 | \$ 2,303,581 621,238 1,253,338 845,769 |
| Total | \$ 3,317,472 | \$ | 2,507,256 | \$ 3,609,739 | \$ 3,267,305 | \$ 3,368,448 | \$ 4,442,703 | \$ 4,550,093 | \$ 4,657,239 | \$ 4,774,584 | \$ 4,896,715 | \$ 5,023,926 |
| Financial Performance Contribution to Reserves | \$ (1,277,762) | \$ | (154,260) | \$ (872,412) | \$ (92,996) | \$ 244,159 | \$ (326,023) | \$ 20,277 | \$ 119,920 | \$ 219,947 | \$ 326,229 | \$ 439,093 |
| Operating Reserve Beginning Balance Contribution to Reserves | 1,784,830 (1,277,762) | \$ | 507,068 (154,260) | \$ 352,807 (872,412) | \$ (519,605) (92,996) | \$ (612,601) 244,159 | \$ (368,441) (326,023) | \$ (694,465) 20,277 | \$ (674,188) 119,920 | \$ (554,268) 219,947 | \$ (334,321) 326,229 | \$ (8,092) 439,093 |
| Ending Balance Target Balance | \$ 507,068 549,368 | \$ | 352,807 559,939 | \$ (519,605) 644,832 | \$ (612,601) 666,558 | \$ (368,441) 684,330 | \$ (694,465) 945,005 | \$ (674,188) 963,569 | \$ (554,268) 981,658 | \$ (334,321) 1,001,862 | \$ (8,092) 1,022,805 | \$ 431,002 1,044,539 |
| Debt Service Coverage Ratios Debt Service Net Revenue Available | \$ 619,350 461,588 | \$ | 622,600 735,840 | \$ 891,694 1,049,692 | \$ 893,444 1,401,521 | \$ 899,194 1,774,480 | \$ 1,873,388 2,210,047 | \$ 1,875,788 2,591,881 | \$ 1,872,738 2,723,265 | \$ 1,874,388 2,861,472 | \$ 1,875,013 3,006,737 | \$ 1,874,575 3,159,438 |
| DSCR | 0.74 | | 1.18 | 1.17 | 1.56 | 1.97 | 1.17 | 1.38 | 1.45 | 1.52 | 1.60 | 1.68 |

| Combined Hills Cook Floor | | FY 2022 | | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | FY 2030 | FY 2031 | FY 2032 |
|---|----|-----------|----|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| Combined Utility Cash Flow | | Budget | ا | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| Proposed Rate Increase | | | | 11.7% | 11.8% | 11.8% | 11.9% | 12.0% | 10.5% | 6.6% | 6.6% | 6.6% | 6.6% |
| Revenue | | | | | | | | | | | | | |
| Current Rate Revenue | \$ | 4,687,000 | \$ | 4,821,782 | \$ 4,845,631 | \$ 4,867,039 | \$ 4,790,958 | \$ 4,716,673 | \$ 4,653,777 | \$ 4,614,298 | \$ 4,575,394 | \$ 4,537,069 | \$ 4,499,465 |
| Additional Rate Revenue | | - | | 538,071 | 1,150,064 | 1,845,678 | 2,582,968 | 3,394,935 | 4,178,422 | 4,736,843 | 5,327,020 | 5,951,097 | 6,611,568 |
| Misc. Revenues | | 994,834 | | 176,172 | 185,818 | 191,738 | 183,367 | 188,657 | 189,093 | 194,052 | 190,668 | 189,819 | 191,743 |
| Total | \$ | 5,681,834 | \$ | 5,536,025 | \$ 6,181,513 | \$ 6,904,455 | \$ 7,557,292 | \$ 8,300,264 | \$ 9,021,292 | \$ 9,545,192 | \$ 10,093,082 | \$ 10,677,985 | \$ 11,302,776 |
| Expenses | | | | | | | | | | | | | |
| O&M | \$ | 3,144,068 | \$ | 3,414,467 | \$ 3,318,166 | \$ 3,482,181 | \$ 3,604,566 | \$ 3,732,529 | \$ 3,866,379 | \$ 4,006,446 | \$ 4,153,079 | \$ 4,306,654 | \$ 4,467,568 |
| Existing Debt | | 619,350 | | 622,600 | 614,850 | 616,600 | 622,350 | 620,050 | 622,450 | 619,400 | 621,050 | 621,675 | 621,238 |
| Proposed Debt | | - | | - | 276,844 | 276,844 | 276,844 | 1,253,338 | 1,253,338 | 2,335,270 | 2,335,270 | 2,335,270 | 2,335,270 |
| Rate Funded Capital | _ | 2,205,495 | | 3,317,000 | 1,379,605 | 3,366,006 | 2,524,505 | 2,650,730 | 2,783,266 | 2,922,430 | 3,068,551 | 3,221,979 | 3,383,077 |
| Total | \$ | 5,968,913 | \$ | 7,354,067 | \$ 5,589,465 | \$ 7,741,631 | \$ 7,028,264 | \$ 8,256,646 | \$ 8,525,433 | \$ 9,883,545 | \$ 10,177,950 | \$ 10,485,577 | \$ 10,807,153 |
| Financial Performance Contribution to Reserves | \$ | (287,078) | \$ | (1,818,042) | \$ 592,048 | \$ (837,175) | \$ 529,028 | \$ 43,618 | \$ 495,859 | \$ (338,353) | \$ (84,868) | \$ 192,408 | \$ 495,624 |
| Operating Reserve | | | | | | | | | | | | | |
| Beginning Balance | \$ | 3,569,659 | \$ | 3,282,581 | \$ 1,464,539 | \$ 2,056,587 | \$ 1,219,411 | \$ 1,748,439 | \$ 1,792,057 | \$ 2,287,916 | \$ 1,949,563 | \$ 1,864,695 | \$ 2,057,103 |
| Contribution to Reserves | | (287,078) | | (1,818,042) | 592,048 | (837,175) | 529,028 | 43,618 | 495,859 | (338,353) | (84,868) | 192,408 | 495,624 |
| Ending Balance | \$ | 3,282,581 | \$ | 1,464,539 | \$ 2,056,587 | \$ 1,219,411 | \$ 1,748,439 | \$ 1,792,057 | \$ 2,287,916 | \$ 1,949,563 | \$ 1,864,695 | \$ 2,057,103 | \$ 2,552,727 |
| Target Balance | | 940,854 | | 1,009,267 | 1,052,465 | 1,093,906 | 1,125,940 | 1,401,479 | 1,435,542 | 1,740,279 | 1,777,350 | 1,815,900 | 1,856,019 |
| Debt Service Coverage Ratios | | | | | | | | | | | | | |
| Debt Service | \$ | 619,350 | \$ | 622,600 | \$ 891,694 | \$ 893,444 | \$ 899,194 | \$ 1,873,388 | \$ 1,875,788 | \$ 2,954,670 | \$ 2,956,320 | \$ 2,956,945 | \$ 2,956,507 |
| Net Revenue Available | | 2,537,767 | | 2,121,558 | 2,863,346 | 3,422,275 | 3,952,727 | 4,567,735 | 5,154,913 | 5,538,746 | 5,940,003 | 6,371,331 | 6,835,208 |
| DSCR | | 4.09 | | 3.40 | 3.21 | 3.83 | 4.39 | 2.43 | 2.74 | 1.87 | 2.00 | 2.15 | 2.31 |

| Water Rates | F | Y 2022 | F | Y 2023 | F | Y 2024 | F | Y 2025 | F | Y 2026 | F | Y 2027 | F | Y 2028 | F | Y 2029 | F | Y 2030 | FY 2031 | | | Y 2032 | |
|--------------------------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|----------|----------|---------|------------------|---------|----------|----------|----------|----|----------|--|
| water Rates | ļ | Actual | | orecast | F | orecast | F | orecast | F | orecast | F | orecast | F | orecast | Fo | orecast | F | orecast | Fo | recast | F | orecast | |
| Service Charge | | | | | | | | | | | | | | | | | | | | | | | |
| 1" or Smaller | \$ | 11.77 | \$ | 12.78 | \$ | 13.87 | \$ | 15.05 | \$ | 16.33 | \$ | 17.72 | \$ | 19.23 | \$ | 20.87 | \$ | 22.65 | \$ | 24.58 | \$ | 26.67 | |
| 2" | | 55.62 | | 60.35 | | 65.48 | | 71.05 | | 77.09 | | 83.65 | | 90.77 | | 98.49 | | 106.87 | | 115.96 | | 125.82 | |
| 3" | | 109.15 | | 118.43 | | 128.50 | | 139.43 | | 151.29 | | 164.15 | | 178.11 | | 193.25 | | 209.68 | | 227.51 | | 246.85 | |
| 4" | | 170.29 | | 184.77 | | 200.48 | | 217.53 | | 236.03 | | 256.10 | | 277.87 | | 301.49 | | 327.12 | | 354.93 | | 385.10 | |
| 6" | | 339.92 | | 368.82 | | 400.17 | | 434.19 | | 471.10 | | 511.15 | | 554.60 | | 601.75 | | 652.90 | | 708.40 | | 768.62 | |
| Volume Rate (1,000 Gal.) | | | | | | | | | | | | | | | | | | | | | | | |
| Retail | \$ | 8.33 | \$ | 9.04 | \$ | 9.81 | \$ | 10.65 | \$ | 11.56 | \$ | 12.55 | \$ | 13.62 | \$ | 14.78 | \$ | 16.04 | \$ | 17.41 | \$ | 18.89 | |
| Wholesale | | 4.98 | | 5.41 | | 5.87 | | 6.37 | | 6.92 | | 7.51 | | 8.15 | | 8.85 | | 9.61 | | 10.43 | | 11.32 | |
| Sewer Rates | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | FY 2026 | | FY 2027 | | FY 2028 | | FY 2029 | | FY 2030 | | FY 2031 | | F | FY 2032 | |
| Sewer Rates | Actual | | F | orecast | F | orecast | F | orecast | F | orecast | Forecast | | Forecast | | Fo | orecast Forecast | | orecast | Forecast | | F | orecast | |
| Service Charge | | | | | | | | | | | | | | | | | | | | | | | |
| 1" or Smaller | \$ | 16.02 | \$ | 18.43 | \$ | 21.20 | \$ | 24.38 | \$ | 28.04 | \$ | 32.25 | \$ | 36.12 | \$ | 37.93 | \$ | 39.83 | \$ | 41.83 | \$ | 43.93 | |
| 2" | • | 77.46 | · | 89.08 | • | 102.45 | • | 117.82 | · | 135.50 | • | 155.83 | | 174.53 | • | 183.26 | · | 192.43 | · | 202.06 | • | 212.17 | |
| 3" | | 164.52 | | 189.20 | | 217.58 | | 250.22 | | 287.76 | | 330.93 | | 370.65 | | 389.19 | | 408.65 | | 429.09 | | 450.55 | |
| 4" | | 238.13 | | 273.85 | | 314.93 | | 362.17 | | 416.50 | | 478.98 | | 536.46 | | 563.29 | | 591.46 | | 621.04 | | 652.10 | |
| 6" | | 474.42 | | 545.59 | | 627.43 | | 721.55 | | 829.79 | | 954.26 | | 1,068.78 | | 1,122.22 | | 1,178.34 | : | 1,237.26 | | 1,299.13 | |
| Volume Rate (1,000 Gal.) | \$ | 6.68 | \$ | 7.69 | \$ | 8.85 | \$ | 10.18 | \$ | 11.71 | \$ | 13.47 | \$ | 15.09 | \$ | 15.85 | \$ | 16.65 | \$ | 17.49 | \$ | 18.37 | |