

# HANSFORD

ECONOMIC CONSULTING LLC

## City of Newman Water Rates Study

**September 12, 2024**

HEC No. 230430

The following report was prepared by Hansford Economic Consulting LLC.

The analyses and findings contained within this report are based on primary data provided by the City of Newman, as well as additional secondary sources of data available as of the date of this report. Updates to information used in this report could change or invalidate the findings contained herein. While it is believed that the primary and secondary sources of information are accurate, this is not guaranteed.

Every reasonable effort has been made in order that the data contained in this study reflect the most accurate and timely information possible. No responsibility is assumed for inaccuracies in reporting by the client, its consultants and representatives, or any other data source used in the preparation of this study. No warranty or representation is made that any of the projected values or results contained in this study will actually be achieved. There will usually be differences between forecasted or projected results and actual results due to changes in events and circumstances.

Changes in economic and social conditions due to events including, but not limited to, major recessions, droughts, major environmental problems or disasters that would negatively affect operations, expenses and revenues may affect the result of the findings in this study. In addition, other factors not considered in the study may influence actual revenues achieved. Any applications for financing, or bond sales analyses, should re-evaluate the financial health and projection of revenues and expenses at the time of the application or preparation for bond sale.

# TABLE OF CONTENTS

| SECTION                                                    | PAGE      |
|------------------------------------------------------------|-----------|
| <b>1. Introduction</b>                                     | <b>1</b>  |
| 1.1 Study Background and Best Practices                    | 1         |
| 1.2 Rate Setting Principles and Organization of the Report | 3         |
| 1.3 Key Findings and Calculated Fees                       | 4         |
| 1.4 Comparison of Water Bills with Other Water Providers   | 7         |
| <b>2. Newman City Water System</b>                         | <b>8</b>  |
| 2.1 Customer Base                                          | 8         |
| 2.2 Water Production and Consumption                       | 9         |
| 2.3 The Water Fund                                         | 10        |
| <b>3. Projected Costs and Revenues</b>                     | <b>14</b> |
| 3.1 Operating Costs and Existing Debt                      | 14        |
| 3.2 Capital Projects and System Rehabilitation Costs       | 14        |
| 3.3 Projected Revenue Requirement                          | 16        |
| 3.4 Cash Flow Projection                                   | 18        |
| <b>4. Monthly Fee Calculations</b>                         | <b>21</b> |
| 4.1 Cost Classification and Allocation                     | 21        |
| 4.2 Rate Calculations                                      | 22        |
| 4.3 Single-Family Bill Impacts                             | 28        |
| 4.4 Non-Residential Bill Impacts                           | 30        |

Appendix A: Water Fees Support Tables

## LIST OF TABLES

| TABLE                                                           | PAGE |
|-----------------------------------------------------------------|------|
| 1 Water Utility Best Practices                                  | 2    |
| 2 Calculated Water Rates                                        | 6    |
| 3 Monthly Bill Impact for a Home                                | 6    |
| 4 Customer Usage Characteristics                                | 10   |
| 5 Current Water Rates Schedule                                  | 12   |
| 6 DWSRF Payment Schedule Well No. 10                            | 14   |
| 7 Projected System Improvement Costs                            | 15   |
| 8 Estimated Debt Service for Well No. 5 Chromium 6 Treatment    | 16   |
| 9 System Rehabilitation Costs                                   | 16   |
| 10 Projected Revenue Requirement                                | 17   |
| 11 Projected Water Operating Fund Cash Flow                     | 20   |
| 12 Projected Capital Fund Cash Flow                             | 20   |
| 13 Allocation of Revenue Requirement to Service and Use Charges | 22   |
| 14 Calculation of Monthly Service Charges                       | 23   |
| 15 Equivalent Meter Units                                       | 24   |
| 16 Use Costs Allocation to Customer Categories                  | 25   |
| 17 Calculation of Use Charges per HCF                           | 26   |
| 18 Calculated Meter Replacement Fees                            | 26   |
| 19 Calculated Water Rates                                       | 27   |
| 20 Single Family Water Usage Monthly Bill Impacts               | 28   |
| 21 Test of Water Rates Affordability                            | 30   |

## LIST OF FIGURES

| FIGURE                                                            | PAGE |
|-------------------------------------------------------------------|------|
| 1 Monthly Water Bill for a Home at Different Water Usage Levels   | 6    |
| 2 Comparison Monthly Water Bills for a Home using 11 HCF          | 7    |
| 3 Newman Water Customers                                          | 8    |
| 4 Annual Water Production                                         | 9    |
| 5 Water Fund Annual Operating Revenue Sources                     | 11   |
| 6 Historical Water Fund Operating Expenses                        | 13   |
| 7 Projected Revenue Requirement                                   | 18   |
| 8 Projected Operating Fund Cash Balances                          | 19   |
| 9 Historical and Projected Water Demand                           | 24   |
| 10 Projected Single Family Bill for 11 HCF                        | 29   |
| 11 Estimated Monthly Bill Impacts for Sample Commercial Customers | 31   |
| 12 Estimated Bill Impacts to Newman-Crows Landing USD and Saputo  | 31   |

## **Section 1: INTRODUCTION**

### **1.1 STUDY BACKGROUND AND BEST PRACTICES**

#### **Background**

The City of Newman (City) provides water services to the residents and businesses of the City. The purpose of this Water Rate Study (Study) is to determine the level of funding required over the next six years to adequately fund the water system in a safe manner; providing clean and safe potable water that meets State and Federal regulatory requirements.

This report provides an explanation and justification of the calculated water rates for the next six years and it documents adherence to the law regarding setting of rates by a municipality. Per California Constitution Article 13D, water rates shall not be extended, imposed, or increased by any agency unless it meets all of the following requirements:

- (1) Revenues derived from the fee or charge shall not exceed the funds required to provide the property related service.
- (2) Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.
- (3) The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- (4) No fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question. Fees or charges based on potential or future use of a service are not permitted.
- (5) No fee or charge may be imposed for general governmental services including, but not limited to, police, fire, ambulance or library, services, where the service is available to the public at large in substantially the same manner as it is to property owners.

The financial model projects revenues and expenses and calculates monthly property-related fees for the next six years. To adopt the calculated rates, the City will proceed with public notification and a public hearing as required by California's Constitution, Proposition 218.

#### **Best Practices**

Fee studies are typically conducted every three to five years to ensure revenue sufficiency. A cost-of-service analysis, which not only determines rates to support revenue sufficiency, but also examines whether customers are paying for their share of system costs and adjusts rates and customer classifications to achieve equity to the maximum extent practicable, is

advisable whenever there has been a shift in the economic base of the community, and whenever proportional cost of service is in question.

As part of the regular periodic reviews of the utility fee, best practices include maintaining financial self-sufficiency, setting target reserve levels for the utility fund, and conducting regular customer outreach/ communications to educate the community on their utility system and value of the service provided.

**Table 1** shows utility best practices and the City's current practices. The City last conducted a water rate study in 2019 and last increased rates January 1, 2024. A water rate study is necessary at this time to a) ensure revenue sufficiency of the water system's operations for the next six years, and b) provide revenues to continue planned system rehabilitation of the water system's infrastructure.

**Table 1**  
**Water Utility Best Practices**

| <b>Best Practice</b>                                                                   | <b>City of Newman</b>                                                                                                                                             |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rate study every 3 to 5 years                                                          | Last rate study conducted in 2019.                                                                                                                                |
| Collect for system rehabilitation (for upkeep of existing infrastructure) in rates     | Rehabilitation is included in the rates.                                                                                                                          |
| Regular customer communications to educate on the utility systems and value of service | The City uses bill inserts, its website, and other regular communication platforms to communicate with customers.                                                 |
| Meet bond covenants                                                                    | The City has a loan with the State for construction of Well 10; it has funded the debt service reserve fund and is meeting the debt service coverage requirement. |
| Self-sufficient enterprise fund                                                        | The Water Fund is self-sufficient; it is not supported by transfers from any other City funds.                                                                    |
| Meet target cash balance                                                               | The City is currently meeting its target cash balance but will be short of its target cash balance in future years without rate increases.                        |

This Study incorporates all three major elements of cost-based rate making; revenue requirement analysis, cost of service analysis, and rate-design analysis. In determining an appropriate rate structure for Newman that would meet the requirements of Proposition 218, the following key objectives were considered:

- Rates must be capable of generating sufficient revenues to meet all annual financial obligations of the water enterprise fund;

- Changes to the rate structure must be administratively feasible (compatible with the existing billing system and straightforward to explain to customers);
- The rate structure should be as reflective of local customer water use as possible; and
- Revised rates must be supportive of City goals, including meeting target reserve levels and keeping within affordability guidelines.

This report presents the result of the analysis and rate structure that best meets these objectives under current and projected conditions.

## **1.2 RATE SETTING PRINCIPLES AND ORGANIZATION OF THE REPORT**

This report was prepared using the principles established by the American Water Works Association. The American Water Works Association “Principles of Water Rates, Fees, and Charges: Manual of Water Supply Practices M1 (the “M1 Manual”) establishes commonly accepted professional standards for cost-of-service studies. The M1 Manual general principles of rate structure design and the objectives of the study are described below.

According to the M1 Manual, the first step in the ratemaking analysis is to determine the adequate and appropriate funding of a utility. This is referred to as the “revenue requirements” analysis. The analysis considers the short-term and long-term service objectives of the utility over a given planning horizon, including capital facilities and system operations and maintenance, to determine the adequacy of a utility’s existing rates to recover its costs. After determining a utility’s revenue requirements, a utility’s next step is determining the cost-of-service. Utilizing a public agency’s approved budget, financial reports, operating data, and capital improvement plans, a rate study generally categorizes (functionalizes) the costs, expenses, and assets of the water system among major operating functions to determine the cost-of-service.

After the assets and the costs of operating those assets are properly categorized by function, the rate study allocates those “functionalized costs” to the customer types. Rate design is the final part of the M1 Manual’s rate-making procedure and generally uses the revenue requirement and cost-of-service analysis to determine appropriate rates for each customer class.

The Study is presented in four sections:

- Section 1: Introduction, summary of findings, and calculated fees.
- Section 2: Information about the water system including the customer base, the water fund, and future infrastructure capital needs.
- Section 3: Projection of the revenue requirement and estimated future cash balances assuming the calculated rates are adopted.

Section 4: Water rates calculations and a comparison of calculated water bills with water bills in neighboring and similar communities. In addition, total water bill burden for a typical residential home is presented as a percentage of income to provide a test of affordability.

**Appendix A** includes support tables for the water rates analysis.

### **1.3 KEY FINDINGS AND CALCULATED FEES**

This Study makes the following key findings:

#### **Monthly Rates**

- There is no need to change the rate structure. Examination of the types of customers and water usage by type of customer demonstrates that there has not been any significant shift in the water demand of City customers.
- The City should continue to collect monthly base rates from all water connections with service at the property, or immediately available to it, whether the customer is actively taking water through their service pipe or not.
- Both the base monthly charges (service charge and water meter replacement fee) and the water use rates need to be increased. The first increase in rates is assumed to be effective with the January 2025 billing cycle.

Calculated cost-of-service rates are shown in **Table 2**. In compliance with California SB-7, which requires all new multi-family residential development to be individually metered or sub-metered, any newly constructed apartments will pay the same base rate per unit as all current detached residential units unless the owner of the building(s) sub-meters each unit and performs its own internal water billing of each unit.

#### **Total Monthly Water Charges**

**Table 3** summarizes the monthly total cost for a home with a 5/8-inch meter using 11 HCF through December 2030. Currently, a home using 11 HCF pays \$49.12; starting January 2025 the bill would be \$57.80. In the last year of the increases, year 6 (2030), the water bill would be \$84.49.

**Figure 1** shows the total monthly charges payable by a home with a 5/8-inch meter at different monthly usage levels under current rates and rates beginning January 2025. Water usage is expressed in hundred cubic feet (HCF or 'units').

**Table 2**  
**Calculated Water Rates**

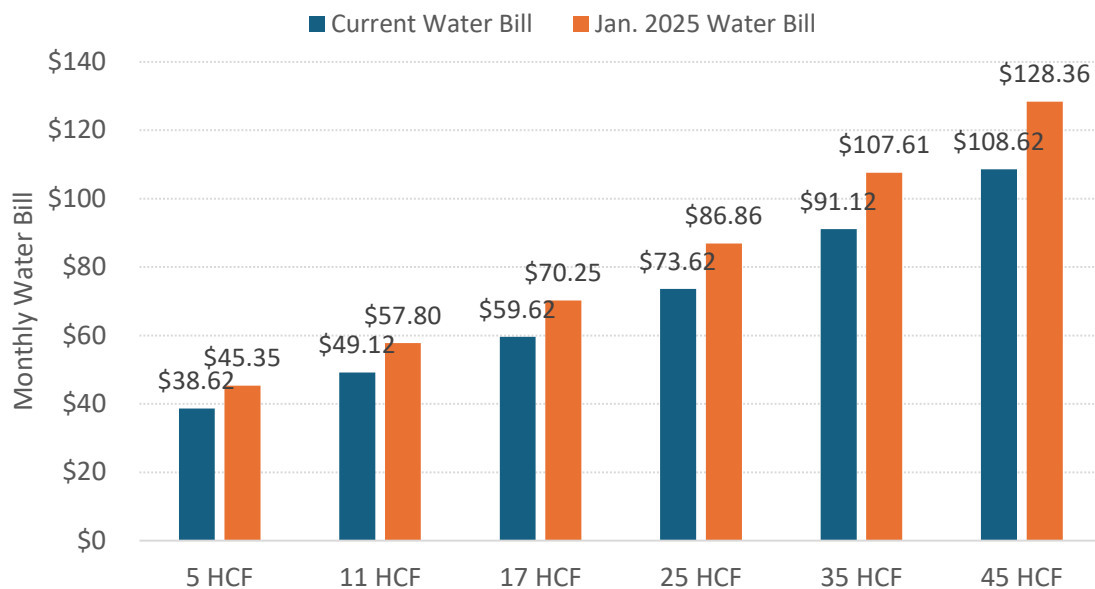
| Fee Component                       | Current    | New Rate Schedule implemented January |            |            |            |            |            |
|-------------------------------------|------------|---------------------------------------|------------|------------|------------|------------|------------|
|                                     | Rates      | 2025                                  | 2026       | 2027       | 2028       | 2029       | 2030       |
| Monthly Service Charge per Meter    |            |                                       |            |            |            |            |            |
| 5/8-inch                            | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 3/4-inch                            | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 1-inch                              | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 1.5-inch                            | \$56.84    | \$64.48                               | \$70.39    | \$80.33    | \$87.70    | \$91.39    | \$95.25    |
| 2-inch                              | \$90.94    | \$103.17                              | \$112.62   | \$128.53   | \$140.31   | \$146.22   | \$152.40   |
| 3-inch                              | \$198.92   | \$225.69                              | \$246.36   | \$281.16   | \$306.93   | \$319.86   | \$333.38   |
| 4-inch                              | \$341.01   | \$386.90                              | \$422.33   | \$481.99   | \$526.17   | \$548.34   | \$571.51   |
| 6-inch                              | \$710.44   | \$806.04                              | \$879.85   | \$1,004.15 | \$1,096.19 | \$1,142.37 | \$1,190.65 |
| 8-inch                              | \$1,023.03 | \$1,160.70                            | \$1,266.98 | \$1,445.98 | \$1,578.51 | \$1,645.01 | \$1,714.54 |
| 10-inch                             | \$1,648.22 | \$1,870.02                            | \$2,041.24 | \$2,329.63 | \$2,543.16 | \$2,650.30 | \$2,762.31 |
| Monthly Water Meter Replacement Fee |            |                                       |            |            |            |            |            |
| 5/8-inch                            | \$1.45     | \$2.73                                | \$2.83     | \$2.93     | \$3.03     | \$3.14     | \$3.25     |
| 3/4-inch                            | \$1.83     | \$3.28                                | \$3.40     | \$3.52     | \$3.64     | \$3.77     | \$3.90     |
| 1-inch                              | \$2.45     | \$3.69                                | \$3.82     | \$3.95     | \$4.09     | \$4.24     | \$4.39     |
| 1.5-inch                            | \$5.36     | \$8.20                                | \$8.49     | \$8.79     | \$9.10     | \$9.42     | \$9.75     |
| 2-inch                              | \$11.73    | \$19.14                               | \$19.81    | \$20.51    | \$21.24    | \$21.98    | \$22.76    |
| 3-inch                              | \$14.74    | \$24.61                               | \$25.48    | \$26.37    | \$27.30    | \$28.26    | \$29.26    |
| 4-inch                              | \$21.43    | \$38.28                               | \$39.63    | \$41.03    | \$42.47    | \$43.97    | \$45.52    |
| 6-inch                              | \$51.55    | \$91.74                               | \$94.97    | \$98.32    | \$101.78   | \$105.37   | \$109.08   |
| 8-inch                              | \$63.03    | \$110.45                              | \$114.34   | \$118.36   | \$122.53   | \$126.85   | \$131.32   |
| 10-inch                             | \$79.18    | \$137.79                              | \$142.64   | \$147.67   | \$152.87   | \$158.26   | \$163.83   |
| Use Charge per HCF                  |            |                                       |            |            |            |            |            |
| Non-Landscape                       | \$1.75     | \$2.08                                | \$2.26     | \$2.59     | \$2.82     | \$2.93     | \$3.06     |
| Landscape                           | \$2.25     | \$2.49                                | \$2.73     | \$3.16     | \$3.42     | \$3.53     | \$3.69     |

**Table 3**  
**Monthly Bill Impact for a Home**

| Customer Category         |      | Current | Rates implemented January |         |         |         |         |         |
|---------------------------|------|---------|---------------------------|---------|---------|---------|---------|---------|
|                           |      |         | 2025                      | 2026    | 2027    | 2028    | 2029    | 2030    |
| Single Family Home 11 HCF |      |         |                           |         |         |         |         |         |
| Service Fee               | 5/8" | \$28.42 | \$32.24                   | \$35.19 | \$40.17 | \$43.85 | \$45.69 | \$47.63 |
| Meter Fee                 | 5/8" | \$1.45  | \$2.73                    | \$2.83  | \$2.93  | \$3.03  | \$3.14  | \$3.25  |
| Use Charge                |      | \$19.25 | \$22.83                   | \$24.91 | \$28.49 | \$31.03 | \$32.25 | \$33.61 |
| Typical Monthly Bill      |      | \$49.12 | \$57.80                   | \$62.94 | \$71.59 | \$77.91 | \$81.09 | \$84.49 |
| Percentage Change         |      |         | 17.7%                     | 8.9%    | 13.7%   | 8.8%    | 4.1%    | 4.2%    |

Source: HEC water rate study 2024.

**Figure 1**  
**Monthly Water Bill for a Home with a 5/8-inch Meter at different usage levels**

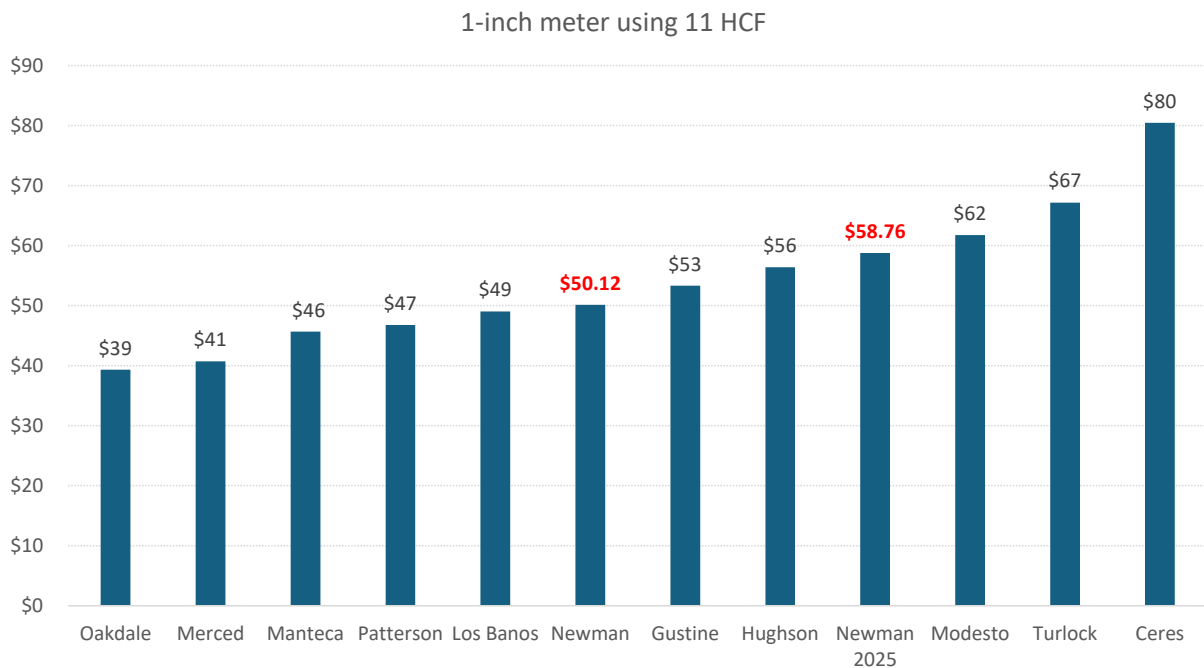


## 1.4 COMPARISON OF WATER BILLS WITH OTHER WATER PROVIDERS

**Figure 2** compares the City's current and calculated water bill for a home using 11 HCF with the bills of other regional water providers. Note that a 1-inch meter is used for the comparison bills.

Currently, City customers have similar water bills as customers in Patterson, Los Banos, and Gustine. With the calculated rate increase in January 2025, the water bill will be close to that of homes served by Hughson and Modesto. This graph presents a snapshot in time; other cities may also be raising their water rates in January or the first half of 2025.

**Figure 2**  
**Comparison Monthly Water Bills for a Home using 11 HCF**



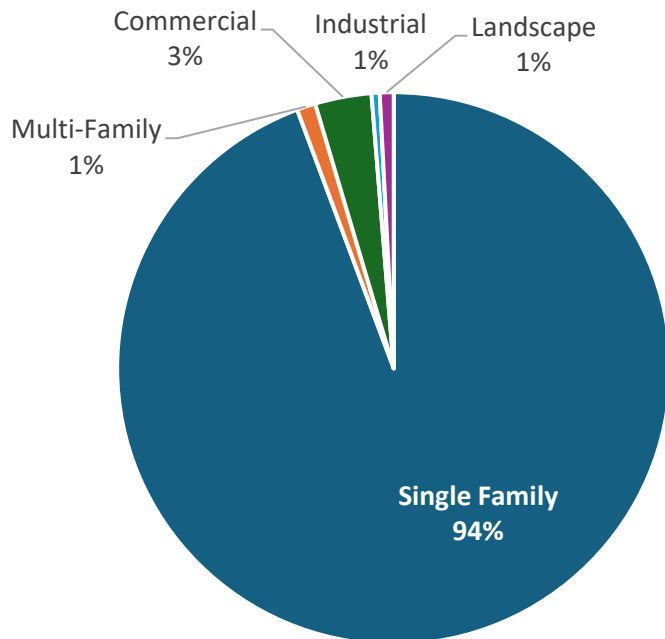
## Section 2: NEWMAN CITY WATER SYSTEM

This section describes the water system’s customer base, water production and consumption, and financial health of the water fund.

### 2.1 CUSTOMER BASE

The City serves water to about 3,400 single-family homes, more than 120 non-residential establishments, the Newman-Crows Landing Unified School District, and several irrigation-only (“landscape”) customers. A pie chart illustrating the customer base is provided in **Figure 3**. As the pie chart shows, the City water customers are primarily (94%) single family residents.

**Figure 3**  
**Newman Water Customers**



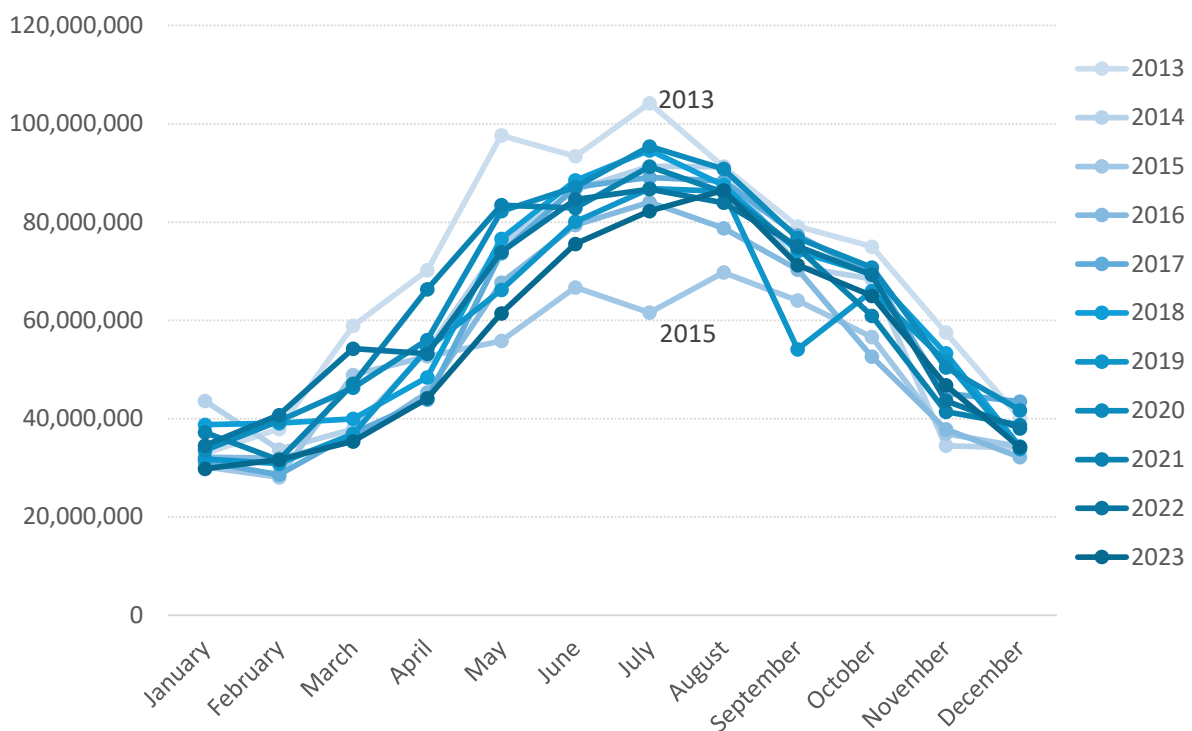
Per the California Department of Finance, Newman has a population of approximately 12,100, and it has sustained an annual average population increase of 2.3% since 2000. The number of occupied housing units has grown at a slightly greater rate of 2.5% since 2000. Historical population and housing estimates are shown in **Table A-1**. Based on historical growth in the City, and conversation with City staff, the water rate model includes the addition of 30 one-inch meters each year.

## 2.2 WATER PRODUCTION AND CONSUMPTION

The City's water supply is 100% groundwater. Water use fluctuates from year to year depending on several factors including, but not limited to, growth, the weather, sustained drought, plumbing retrofits, and pricing of water. System-wide annual water production by month is shown in **Figure 4** for calendar years 2013 through 2023. The effects of mandatory water conservation can be seen in 2015 when summer usage dramatically decreased. The effects of continued water conservation messaging and installation of low-flow water devices are also displayed by the reduction in water production from its highest year, which was 2013, in the data presented.

Well production data is provided in **Appendix Table A-2**. Approximately 60% of annual water production is for year-round water consumption, and approximately 40% of annual water production is additional water for increased demand during the summer months.

**Figure 4**  
**Annual Water Production**



**Table 4** shows median monthly water use per meter for each customer category using data spanning April 2021 through March 2024. Like most cities in the western U.S., Newman experiences greater water demand in the summer than the winter due to outside applications of water. **Appendix Table A-3** shows total water use by customer category each month, on average, for the last three years.

Historical average water use for 2019-2023 by customer category is used as the basis on which to project water use in the rate study. Historical potable water consumption is shown in **Appendix Table A-4**.

**Table 4**  
**Customer Usage Characteristics**

| Customer Category | Median Monthly Use       |        |        | Summer to Winter Ratio |
|-------------------|--------------------------|--------|--------|------------------------|
|                   | All Months               | Summer | Winter |                        |
| Residential       | Figures in HCF per Meter |        |        |                        |
| Single Family     | 11.00                    | 17.00  | 7.00   | 2.43                   |
| Multi Family      | 30.00                    | 31.00  | 29.00  | 1.07                   |
| Non-Residential   |                          |        |        |                        |
| Commercial        | 4.00                     | 5.00   | 3.00   | 1.67                   |
| Industrial        | 3.00                     | 6.00   | 1.00   | 6.00                   |
| Landscape         | 39.00                    | 80.50  | 4.00   | 20.13                  |

Source: City of Newman water reads, and HEC water rate study August 2024.

## 2.3 THE WATER FUND

The City's water enterprise fund accounts for the revenues and expenses associated with provision of water service. An enterprise fund is a fund that is intended to recover its costs through user fees and charges for a specific service. Money collected for an enterprise fund cannot be spent on other services. Generally accepted accounting principles (GAAP) require state and local government to use the enterprise fund type to account for "business type activities". As a business type fund, enterprise funds must be self-sufficient. Enterprise funds also provide the repayment capacity for, and make debt service payments on, any debt incurred for capital projects; therefore, any water enterprise fund bond-funded projects do not diminish the City's general fund debt capacity.

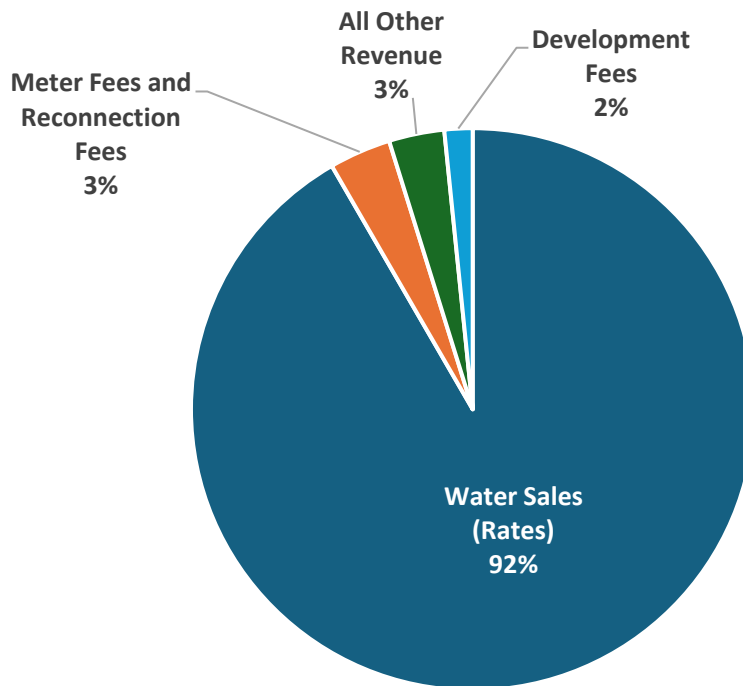
It is important for enterprise funds to be self-sufficient, without subsidies from other funds, including the City's General Fund. General Fund cash should be used to protect against factors that could limit the City's ability to provide critical services. Decreasing General Fund reserves could leave the City financially vulnerable, reducing funds necessary to recover from a natural disaster, for example.

**Table A-5** shows historical revenues and expenses for the water operating and capital funds for fiscal years ending 2019 through 2023, estimated numbers for fiscal year 2024, and budgeted numbers for fiscal year ending 2025. Historical financial audited statements are summarized in **Table A-6** of Appendix A for fiscal years ending 2018 through 2023.

## Revenues

Water system operations are funded through rates, meter replacement fees, service fees, interest earnings, utility penalties, and other small miscellaneous revenues. **Figure 5** shows the historical share of revenues by source for the combined operating and capital funds.

**Figure 5**  
**Water Fund Annual Operating Revenue Sources**



Rate revenue is generated by application of the water rate schedule shown in **Table 5**.

Water impact and connection fees, which are not updated in this study, but do provide revenues to the water capital fund, are shown in **Appendix Table A-7**.

## Expenses

Annual operating costs include all water system operating expenses and capital outlay. Expenditures were grouped into six categories:

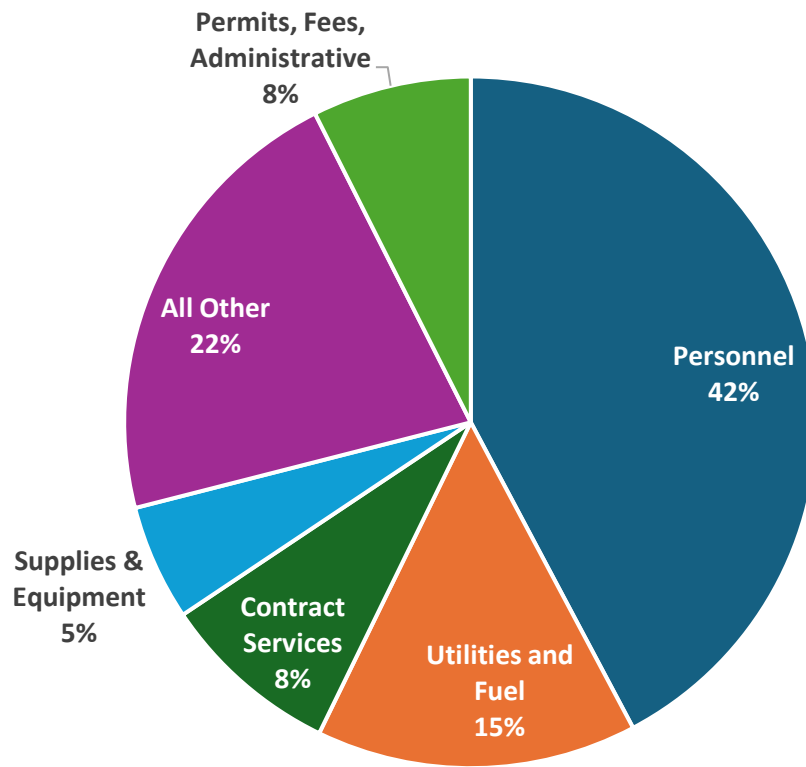
- Personnel (Payroll and Benefits)
- Contract Services
- Utilities and Fuel
- Supplies
- Debt Service
- All Other

**Table 5**  
**Current Water Rates Schedule**

| <b>Fee Component</b>                       | <b>Rates</b> |
|--------------------------------------------|--------------|
| <b>Monthly Service Charge per Meter</b>    |              |
| 5/8-inch                                   | \$28.42      |
| 3/4-inch                                   | \$28.42      |
| 1-inch                                     | \$28.42      |
| 1.5-inch                                   | \$56.84      |
| 2-inch                                     | \$90.94      |
| 3-inch                                     | \$198.92     |
| 4-inch                                     | \$341.01     |
| 6-inch                                     | \$710.44     |
| 8-inch                                     | \$1,023.03   |
| 10-inch                                    | \$1,648.22   |
| <b>Monthly Water Meter Replacement Fee</b> |              |
| 5/8-inch                                   | \$1.45       |
| 3/4-inch                                   | \$1.83       |
| 1-inch                                     | \$2.45       |
| 1.5-inch                                   | \$5.36       |
| 2-inch                                     | \$11.73      |
| 3-inch                                     | \$14.74      |
| 4-inch                                     | \$21.43      |
| 6-inch                                     | \$51.55      |
| 8-inch                                     | \$63.03      |
| 10-inch                                    | \$79.18      |
| <b>Use Charge per HCF</b>                  |              |
| Non-Landscape                              | \$1.75       |
| Landscape                                  | \$2.25       |

Personnel, utilities and fuel, and all other expenses are the largest expenditure items. These three expense categories comprise approximately 79% of annual costs. Percentage share of historical expenses by expense category is shown in **Figure 6**.

**Figure 6**  
**Historical Water Fund Operating Expenses**



## Section 3: PROJECTED COSTS AND REVENUES

### 3.1 OPERATING COSTS AND EXISTING DEBT

Projected operating costs are based on the fiscal year 2025 budget. For future year projections, personnel costs are increased 7.0% each year, electric costs and utilities are increased 10.0% each year and all other annual expenses are increased 5.0% or 3.0% each year. These cost increases were based on historical cost increases and discussions with City staff. Historical cost increases by type of expense, and comparison with increases in price indices (which reflect different measurements of inflation) is shown in **Appendix Table A-8**. It is very typical for water utility annual costs, and therefore water rates, to outstrip inflation.

In addition to historical types of costs incurred by the water fund, the City is adding new operations and maintenance costs in the next six years. Additional costs are included for contaminant testing, as well as the additions of a full-time water operator and a part-time water operator.

The City secured a loan with the State Water Boards Drinking Water State Revolving Fund (DWSRF) program to pay for the construction of Well 10. The loan carries annual debt service of \$236,300. The loan will be paid off in fiscal year 2063. The loan repayment schedule is shown in **Table 6**.

**Table 6**  
**DWSRF Payment Schedule Well No. 10**

| Item                       | 2023               | FY Ending   |                    |             |             |                  |             |             |
|----------------------------|--------------------|-------------|--------------------|-------------|-------------|------------------|-------------|-------------|
|                            |                    | 2024        | 2025               | 2026        | 2027        | 2028             | 2029        | 2030        |
| Principal Payment          | June 30th          | \$236,300   | \$236,300          | \$236,300   | \$236,300   | \$236,300        | \$236,300   | \$236,300   |
| <b>Outstanding Balance</b> | <b>\$9,452,000</b> | \$9,215,700 | \$8,979,400        | \$8,743,100 | \$8,506,800 | \$8,270,500      | \$8,034,200 | \$7,797,900 |
| Repayment Period (years):  |                    | 40          | Last Payment Date: |             | 6/30/2063   | Interest Rate 0% |             |             |

Source: California DWSRF Payment Schedule for Project No. 5010013-001C - City of Newman.

### 3.2 CAPITAL PROJECTS AND SYSTEM REHABILITATION COSTS

#### Capital Projects

Over the next six years, total water system capital improvement costs are estimated at \$4.86 million in inflated dollars. Of the total cost, \$4.07 million is to be paid for by existing customers, and \$0.78 million by new customers. **Table 7** summarizes the total estimated costs in future dollars (cost estimates were provided in 2024 dollars; the rate study inflates the cost estimates by 4% each year per the approximate 5-year historical average increase in the Engineering News Record (ENR) Construction Cost Index (CCI)). **Appendix Table A-9** provides the cost estimates in 2024 dollars.

**Table 7**  
**Projected System Improvement Costs**

| Capital Improvement                         | Fiscal Year Ending |                  |                    |                  |                  |                  | Estimated Total Costs |
|---------------------------------------------|--------------------|------------------|--------------------|------------------|------------------|------------------|-----------------------|
|                                             | 2025               | 2026             | 2027               | 2028             | 2029             | 2030             |                       |
| Inflation Factor --->                       |                    | 4.0%             | 4.0%               | 4.0%             | 4.0%             | 4.0%             |                       |
| <i>All Figures in Inflated Dollars</i>      |                    |                  |                    |                  |                  |                  |                       |
| <b>Facilities</b>                           |                    |                  |                    |                  |                  |                  |                       |
| Well Rehabilitation [1]                     | \$0                | \$0              | \$162,240          | \$0              | \$0              | \$0              | \$162,240             |
| Pipeline Improvements                       | \$150,000          | \$156,000        | \$162,240          | \$168,730        | \$175,479        | \$182,498        | \$994,946             |
| Vehicles & Specialized Equipment            | \$0                | \$0              | \$81,120           | \$84,365         | \$0              | \$91,249         | \$256,734             |
| Well 5 Chrome 6 MCLs Treatment Facilities   | \$0                | \$520,000        | \$1,081,600        | \$0              | \$0              | \$0              | \$1,601,600           |
| Sample Stations Replacement Program [2]     | \$0                | \$12,480         | \$12,979           | \$13,498         | \$14,038         | \$14,600         | \$67,596              |
| Meter Replacement Program [3]               | \$101,250          | \$105,300        | \$109,512          | \$113,892        | \$118,448        | \$123,186        | \$671,589             |
| Fire Hydrant Replacement Program [4]        | \$0                | \$28,080         | \$29,203           | \$30,371         | \$31,586         | \$32,850         | \$152,090             |
| <b>Subtotal Facilities (rounded)</b>        | <b>\$251,300</b>   | <b>\$821,900</b> | <b>\$1,638,900</b> | <b>\$410,900</b> | <b>\$339,600</b> | <b>\$444,400</b> | <b>\$3,907,000</b>    |
| <b>Studies</b>                              |                    |                  |                    |                  |                  |                  |                       |
| Water Master Plan and Water CIPs Update [5] | \$0                | \$52,000         | \$0                | \$0              | \$0              | \$0              | \$52,000              |
| Water Rate Study Update [5]                 | \$44,000           | \$0              | \$0                | \$0              | \$0              | \$59,008         | \$103,008             |
| Urban Water Management Plan 5 year update   | \$0                | \$0              | \$10,816           | \$0              | \$0              | \$0              | \$10,816              |
| <b>Subtotal Studies (rounded)</b>           | <b>\$44,000</b>    | <b>\$52,000</b>  | <b>\$10,900</b>    | <b>\$0</b>       | <b>\$0</b>       | <b>\$59,100</b>  | <b>\$166,000</b>      |
| <b>Total CIP Existing Customers</b>         | <b>\$295,300</b>   | <b>\$873,900</b> | <b>\$1,649,800</b> | <b>\$410,900</b> | <b>\$339,600</b> | <b>\$503,400</b> | <b>\$4,072,900</b>    |
| Cash-Funded                                 | \$295,300          | \$353,900        | \$568,200          | \$410,900        | \$339,600        | \$503,400        | \$2,471,300           |
| Debt-Funded                                 | \$0                | \$520,000        | \$1,081,600        | \$0              | \$0              | \$0              | \$1,601,600           |
| <b>Growth Projects</b>                      |                    |                  |                    |                  |                  |                  |                       |
| FF-01 (700-ft 8" main replace 4" main)      | \$0                | \$0              | \$0                | \$0              | \$0              | \$381,542        | \$381,542             |
| FF-02 (800-ft new 8" main)                  | \$0                | \$0              | \$0                | \$403,151        | \$0              | \$0              | \$403,151             |
| <b>Subtotal Growth Projects (rounded)</b>   | <b>\$0</b>         | <b>\$0</b>       | <b>\$0</b>         | <b>\$404,000</b> | <b>\$0</b>       | <b>\$382,000</b> | <b>\$785,000</b>      |
| <b>TOTAL CIP</b>                            | <b>\$295,300</b>   | <b>\$873,900</b> | <b>\$1,649,800</b> | <b>\$814,900</b> | <b>\$339,600</b> | <b>\$885,400</b> | <b>\$4,857,900</b>    |

Source: City of Newman, spring 2024.

[1] Work is pending results of Water Well Profiling.

[2] 3 stations/year @ \$4,000/station.

[3] 225 meters/year @ \$450/meter.

[4] 3 hydrants/year @ \$9,000/hydrant.

[5] Needed for Prop 1 Grants.

One project comprises about one-third of the existing customers' cost. Well No. 5 must comply with State Chromium 6 levels by October 2027. The City anticipates executing a DWSRF loan to install the required treatment facilities to the well. Estimated annual debt service associated with securing the loan is provided in **Table 8**.

### System Rehabilitation

Customers are responsible for the upkeep of existing system facilities, as well as capital costs (and associated soft costs) of new facilities. Depreciation of the water system assets is used as a proxy for the amount that should be collected each year to fund system rehabilitation, as shown in **Table 9**. The estimated system rehabilitation cost includes replacement of existing assets and assets that are estimated to be constructed during the Study time period (see **Tables A-10** and **A-11**).

**Table 8**  
**Estimated Debt Service for Well No. 5 Chromium 6 Treatment**

| Item                                           | SRF             |
|------------------------------------------------|-----------------|
| Estimated Cost in Inflated Dollars             | \$1,601,600     |
| <b>Estimated Annual Debt Service (rounded)</b> | <b>\$48,800</b> |
| DWSRF Loan Assumptions:                        |                 |
| Interest Rate                                  | 1%              |
| Term (years)                                   | 40              |

Source: Newman 2024 water rate study.

The water rates include 100% depreciation; however, the revenue collection is spent on capital projects each year. In some years not all of the money collected is spent on capital projects; in these years the additional amount is kept in the reserves and spent in another year in which capital costs exceed collections for system rehabilitation.

**Table 9**  
**System Rehabilitation Costs**

| Depreciation                                | FY Ending        |                  |                  |                  |                  |                  |
|---------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                             | 2025             | 2026             | 2027             | 2028             | 2029             | 2030             |
| <b>Annual Depreciation</b>                  |                  |                  |                  |                  |                  |                  |
| Existing Assets (rounded up)                | \$382,000        | \$370,000        | \$368,000        | \$349,000        | \$347,000        | \$347,000        |
| New Assets (rounded up)                     | \$11,000         | \$41,000         | \$104,000        | \$132,000        | \$146,000        | \$175,000        |
| <b>Total Annual Depreciation</b>            | <b>\$393,000</b> | <b>\$411,000</b> | <b>\$472,000</b> | <b>\$481,000</b> | <b>\$493,000</b> | <b>\$522,000</b> |
| Percentage Depreciation in Rates            | 100%             | 100%             | 100%             | 100%             | 100%             | 100%             |
| <b>System Rehabilitation Costs in Rates</b> | <b>\$393,000</b> | <b>\$411,000</b> | <b>\$472,000</b> | <b>\$481,000</b> | <b>\$493,000</b> | <b>\$522,000</b> |

Source: City of Newman and HEC 2024 water rate study.

### 3.3 PROJECTED REVENUE REQUIREMENT

The revenue requirement is the amount of money that must be raised through monthly fees each year to achieve revenue sufficiency. The projected revenue requirement over the next six years is provided in **Table 10**.

The City anticipates raising about \$2.78 million from rates in fiscal year 2025, without accounting for any change in rates during the fiscal year. In fiscal year 2025, rates need to increase to raise an additional \$0.28 million, for a total of \$3.06 million.

**Table 10**  
**Projected Revenue Requirement**

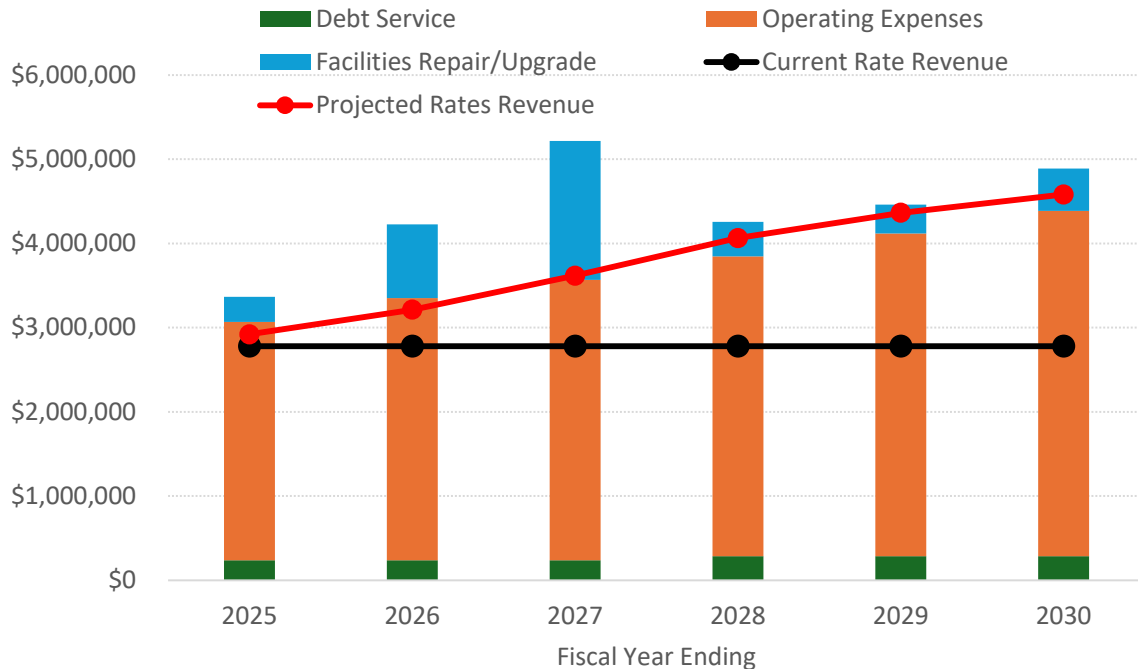
| Expenses and Credits                | Inflator   | Fiscal Year Ending  |             |             |             |             |             |
|-------------------------------------|------------|---------------------|-------------|-------------|-------------|-------------|-------------|
|                                     |            | 2025                | 2026        | 2027        | 2028        | 2029        | 2030        |
|                                     |            | Budget              |             |             |             |             |             |
| Ongoing Operating Expenses          |            | figures are rounded |             |             |             |             |             |
| Wages and Salaries                  | 7.0%       | \$691,430           | \$739,800   | \$791,600   | \$847,000   | \$906,300   | \$969,700   |
| Benefits                            | 7.0%       | \$462,108           | \$494,500   | \$529,100   | \$566,100   | \$605,700   | \$648,100   |
| Contract Services                   | 5.0%       | \$320,000           | \$336,000   | \$352,800   | \$370,400   | \$388,900   | \$408,300   |
| Insurance                           | 10.0%      | \$202,525           | \$222,800   | \$245,100   | \$269,600   | \$296,600   | \$326,300   |
| Supplies                            | 5.0%       | \$211,290           | \$221,900   | \$233,000   | \$244,700   | \$256,900   | \$269,700   |
| Utilities - Electric                | 10.0%      | \$480,350           | \$528,400   | \$581,200   | \$639,300   | \$703,200   | \$773,500   |
| Utilities - Gas, Telephone,         | 3.0%       | \$9,400             | \$9,700     | \$10,000    | \$10,300    | \$10,600    | \$10,900    |
| Fuel                                | 3.0%       | \$15,000            | \$15,500    | \$16,000    | \$16,500    | \$17,000    | \$17,500    |
| Permits and Fees                    | 3.0%       | \$18,000            | \$18,500    | \$19,100    | \$19,700    | \$20,300    | \$20,900    |
| Equipment                           | 3.0%       | \$25,969            | \$26,700    | \$27,500    | \$28,300    | \$29,100    | \$30,000    |
| Administrative Surcharge            | 5.0%       | \$164,772           | \$173,000   | \$181,700   | \$190,800   | \$200,300   | \$210,300   |
| Miscellaneous                       | 3.0%       | \$232,050           | \$239,000   | \$246,200   | \$253,600   | \$261,200   | \$269,000   |
| New Operating Expenses              |            |                     |             |             |             |             |             |
| Contaminant Testing [1]             | 3.0%       |                     | \$7,400     | \$7,600     | \$7,800     | \$8,000     | \$8,200     |
| Full Time Operator                  | 7.0%       |                     | \$83,600    | \$89,500    | \$95,800    | \$102,500   | \$109,700   |
| Part Time Operator                  | 7.0%       |                     |             |             |             | \$28,100    | \$30,100    |
| Total Operating Expenses            |            | \$2,832,894         | \$3,116,800 | \$3,330,400 | \$3,559,900 | \$3,834,700 | \$4,102,200 |
| Debt Service                        |            |                     |             |             |             |             |             |
| Well No. 10 SRF Loan                |            | \$236,300           | \$236,300   | \$236,300   | \$236,300   | \$236,300   | \$236,300   |
| Chromium 6 - Well 5 SRF Loan        |            |                     |             |             | \$48,800    | \$48,800    | \$48,800    |
| Total Debt Service                  |            | \$236,300           | \$236,300   | \$236,300   | \$285,100   | \$285,100   | \$285,100   |
| System Rehabilitation               |            |                     |             |             |             |             |             |
| Funded by Depreciation              |            | \$393,000           | \$411,000   | \$472,000   | \$481,000   | \$493,000   | \$522,000   |
| Cash PAYG Greater than Depreciation |            | \$0                 | \$0         | \$96,200    | \$0         | \$0         | \$0         |
| Total System Rehabilitation         |            | \$393,000           | \$411,000   | \$568,200   | \$481,000   | \$493,000   | \$522,000   |
| Credits                             |            |                     |             |             |             |             |             |
| Interest Income                     | constant   | \$58,000            | \$58,000    | \$58,000    | \$58,000    | \$58,000    | \$58,000    |
| Meter Replacement Fee               | Table A-20 | \$113,900           | \$144,100   | \$150,600   | \$157,400   | \$164,500   | \$171,900   |
| Water Recon Fee                     | constant   | \$23,000            | \$23,000    | \$23,000    | \$23,000    | \$23,000    | \$23,000    |
| Misc Revenue/income                 | constant   | \$300               | \$300       | \$300       | \$300       | \$300       | \$300       |
| Utility Application Fee             | constant   | \$8,000             | \$8,000     | \$8,000     | \$8,000     | \$8,000     | \$8,000     |
| Penalty - Utility Payments          | constant   | \$40,000            | \$40,000    | \$40,000    | \$40,000    | \$40,000    | \$40,000    |
| Total Credits                       |            | \$243,200           | \$273,400   | \$279,900   | \$286,700   | \$293,800   | \$301,200   |
| REVENUE REQUIREMENT                 |            | \$3,218,994         | \$3,490,700 | \$3,855,000 | \$4,039,300 | \$4,319,000 | \$4,608,100 |
| RATE REVENUE                        |            | \$3,059,000         | \$3,365,000 | \$3,870,000 | \$4,257,000 | \$4,470,000 | \$4,694,000 |
| Annual Percentage Change            |            | 10%                 | 10%         | 15%         | 10%         | 5%          | 5%          |

Source: City of Newman and HEC August 2024.

[1] Chrome 6, Per-Polyfluoroalkyl (PFAS), and UCMR 6 testing.

The water revenue requirement projection is illustrated in **Figure 7**.

**Figure 7**  
**Projected Revenue Requirement**



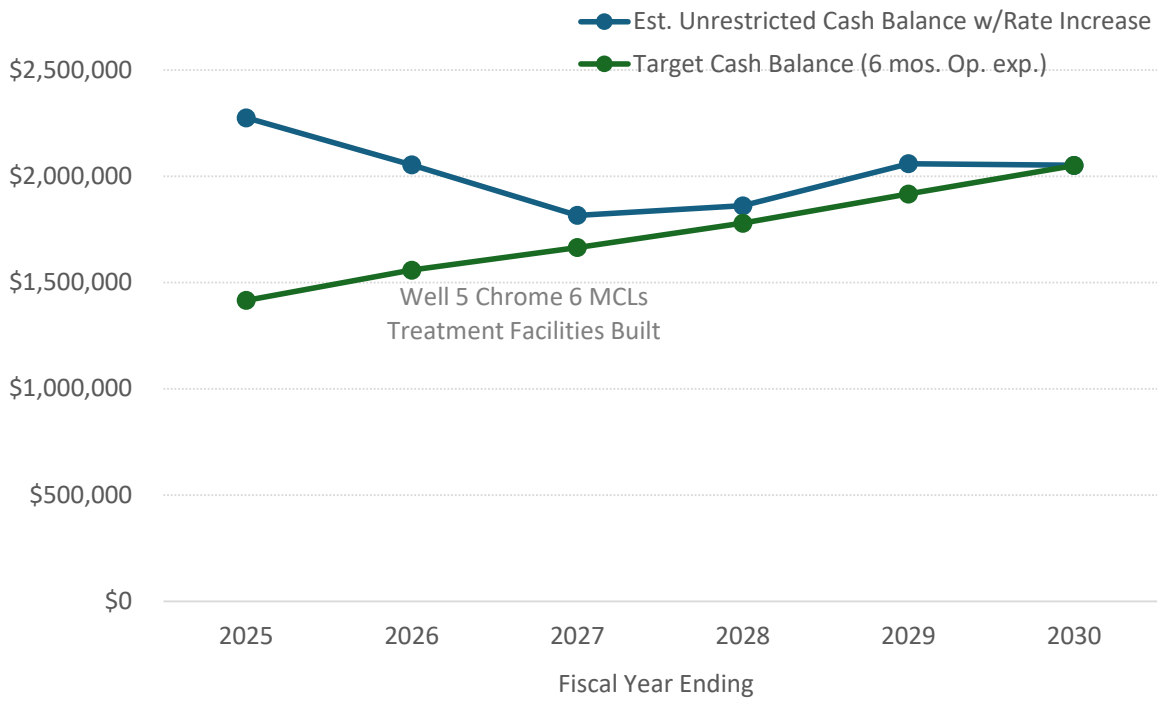
### 3.4 CASH FLOW PROJECTION

**Figure 8** illustrates projected revenues (assuming rates are increased), expenses, and total unrestricted cash for the operating fund through fiscal year 2030. With adoption of the calculated rates, it is anticipated that the City will be able to meet all water enterprise fund obligations, including existing and potential debt service coverage requirements, and achieve a target of at least six months of operating expenses in unrestricted cash reserves.

The detailed projected cash flow, which also demonstrates the City's ability to meet debt covenants, is provided in **Table 11**. Under the terms of the existing DWSRF loan, the City must restrict one year of debt service (\$236,300) in reserves. With repayment of an additional DWSRF loan anticipated to begin in 2028, the restricted funds are expected to increase to \$285,100.

Cash flow for the capital fund is shown in **Table 12**. The capital fund pays for projects required of new growth.

**Figure 8**  
**Projected Operating Fund Cash Balances**



**Table 11**  
**Projected Water Operating Fund Cash Flow**

| Revenues and Expenses                     | Fiscal Year Ending    |                    |                    |                    |                    |                    |
|-------------------------------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                           | 2025                  | 2026               | 2027               | 2028               | 2029               | 2030               |
|                                           | <i>Rates increase</i> | <i>Jan. 2025</i>   | <i>Jan. 2026</i>   | <i>Jan. 2027</i>   | <i>Jan. 2028</i>   | <i>Jan. 2029</i>   |
| <b>Operating Revenues</b>                 |                       |                    |                    |                    |                    |                    |
| Service Fees                              | \$1,415,000           | \$1,569,900        | \$1,768,100        | \$1,986,100        | \$2,132,700        | \$2,239,500        |
| Use Fees                                  | \$1,504,900           | \$1,642,000        | \$1,849,300        | \$2,077,300        | \$2,230,700        | \$2,342,400        |
| Meter Replacement Fees                    | \$113,900             | \$144,100          | \$150,600          | \$157,400          | \$164,500          | \$171,900          |
| <b>Subtotal Water Sales Revenues</b>      | <b>\$3,033,800</b>    | <b>\$3,356,000</b> | <b>\$3,768,000</b> | <b>\$4,220,800</b> | <b>\$4,527,900</b> | <b>\$4,753,800</b> |
| Non-Water Sales                           | \$129,300             | \$129,300          | \$129,300          | \$129,300          | \$129,300          | \$129,300          |
| <b>Total Operating Revenues</b>           | <b>\$3,163,100</b>    | <b>\$3,485,300</b> | <b>\$3,897,300</b> | <b>\$4,350,100</b> | <b>\$4,657,200</b> | <b>\$4,883,100</b> |
| <b>Operating Expenses</b>                 | <b>\$2,832,894</b>    | <b>\$3,116,800</b> | <b>\$3,330,400</b> | <b>\$3,559,900</b> | <b>\$3,834,700</b> | <b>\$4,102,200</b> |
| <b>Net Revenues before Debt Service</b>   | <b>\$330,206</b>      | <b>\$368,500</b>   | <b>\$566,900</b>   | <b>\$790,200</b>   | <b>\$822,500</b>   | <b>\$780,900</b>   |
| <b>Debt Service</b>                       | <b>\$236,300</b>      | <b>\$236,300</b>   | <b>\$236,300</b>   | <b>\$285,100</b>   | <b>\$285,100</b>   | <b>\$285,100</b>   |
| Debt Service Coverage [1]                 | 1.40                  | 1.56               | 2.40               | 2.77               | 2.88               | 2.74               |
| <b>Net Revenues</b>                       | <b>\$93,906</b>       | <b>\$132,200</b>   | <b>\$330,600</b>   | <b>\$505,100</b>   | <b>\$537,400</b>   | <b>\$495,800</b>   |
| Beginning Cash Balance [2]                | \$2,713,381           | \$2,512,000        | \$2,290,300        | \$2,052,700        | \$2,146,900        | \$2,344,700        |
| Net Revenues                              | \$93,906              | \$132,200          | \$330,600          | \$505,100          | \$537,400          | \$495,800          |
| Capital Projects [3]                      | (\$295,300)           | (\$353,900)        | (\$568,200)        | (\$410,900)        | (\$339,600)        | (\$503,400)        |
| <b>Estimated Ending Balance (rounded)</b> | <b>\$2,512,000</b>    | <b>\$2,290,300</b> | <b>\$2,052,700</b> | <b>\$2,146,900</b> | <b>\$2,344,700</b> | <b>\$2,337,100</b> |
| Restricted                                | \$236,300             | \$236,300          | \$236,300          | \$285,100          | \$285,100          | \$285,100          |
| <b>Unrestricted</b>                       | <b>\$2,275,700</b>    | <b>\$2,054,000</b> | <b>\$1,816,400</b> | <b>\$1,861,800</b> | <b>\$2,059,600</b> | <b>\$2,052,000</b> |
| <b>Target Unrestricted Balance [4]</b>    | <b>\$1,416,447</b>    | <b>\$1,558,400</b> | <b>\$1,665,200</b> | <b>\$1,779,950</b> | <b>\$1,917,350</b> | <b>\$2,051,100</b> |

Source: City of Newman and HEC, August 2024.

[1] Per SRF Project No. 5010013-001C, debt service coverage ratio must be at least 1.20.

[2] Operating fund 63 cash balance as of 7/1/2024.

[3] Capital projects for system rehabilitation only.

[4] Six months of operating expenditures.

**Table 12**  
**Projected Capital Fund Cash Flow**

| Capital Fund                      | 2025               | 2026               | 2027             | 2028            | 2029             | 2030             |
|-----------------------------------|--------------------|--------------------|------------------|-----------------|------------------|------------------|
| Beginning Balance                 | (\$568,260)        | (\$414,260)        | (\$205,965)      | \$121,935       | \$46,684         | \$374,584        |
| plus Connection / Impact Fees [1] | \$154,000          | \$208,295          | \$327,900        | \$327,900       | \$327,900        | \$327,900        |
| less Project FF_01                | \$0                | \$0                | \$0              | \$0             | \$0              | (\$381,542)      |
| less Project FF_02                | \$0                | \$0                | \$0              | (\$403,151)     | \$0              | \$0              |
| <b>Ending Balance Fund 64</b>     | <b>(\$414,260)</b> | <b>(\$205,965)</b> | <b>\$121,935</b> | <b>\$46,684</b> | <b>\$374,584</b> | <b>\$320,941</b> |

Source: City of Newman August 2024.

[1] FY25 budget. For future years, the estimated number of new 1-inch meters is multiplied by the anticipated fee in place.

|                                                 |          |          |          |          |          |
|-------------------------------------------------|----------|----------|----------|----------|----------|
| Estimated New 1-inch Meters                     | 30       | 30       | 30       | 30       | 30       |
| Proposed New Fee Schedule in place by Jan. 2025 | \$10,930 | \$10,930 | \$10,930 | \$10,930 | \$10,930 |
| Current Fee for New 1-inch Meter                | \$2,956  |          |          |          |          |

## SECTION 4: MONTHLY FEE CALCULATIONS

### 4.1 COST CLASSIFICATION AND ALLOCATION

After determining the revenue requirement, the next step is determining the cost-of-service. Utilizing the fiscal year 2024 expenditures, operating data, and infrastructure asset values, the rate study categorizes (functionalizes) the assets and costs of the water system among major operating functions to determine the cost-of-service.

Functional cost allocation for the water system is provided in Appendix A **Tables A-12 and A-13**. Actual fiscal year 2024 water fund expenditures were allocated to the different functions of water service based on one of five methodologies described below.

1. **Plant-in-Service.** Plant-in-service costs include the original cost of current water system assets. Total cost is allocated 1% to customers, 75% to capacity, and 24% to commodity costs.
2. **Average to Peak Month Costs.** Certain costs are allocated to reflect the cost of additional water production during the peak usage months. These costs are allocated 41% to capacity and 59% to commodity.
3. **Utilities.** Utilities costs (electricity) are allocated 10% to capacity and 90% to use. Electricity costs are driven by water demand.
4. **Customers.** Costs such as most administrative staff costs, water membership/dues, printing and postage are allocated 100% to customer costs. These costs are not affected by the amount of capacity available, or the quantity of water delivered.
5. **Average of Classified Costs.** Some expenses are allocated to multiple functions of water service because they do not directly relate to customer functions, water system capacity, or water deliveries quantity. These expenses are allocated among the customer, capacity, and commodity functions based on the combined percentage allocation of all classified costs.

The cost classification provides a guideline for the City in determining the portion of revenue requirement to collect through base monthly service charges versus usage charges. Base monthly service charges are fixed at the same amount each month. Usage charges billed to customers are variable because they depend on the quantity of water consumed each month.

#### Fixed Costs

As described in the AWWA M1 Manual, fixed costs generally consist of costs that a utility incurs to serve customers irrespective of the amount or rate of water used. These typically include (1) customer-related costs such as administrative and billing costs associated with meter reading, postage, and billing, and (2) the infrastructure (capacity-related facilities)

required to provide service to customers. Customer and capacity costs are allocated to customers based on the number of Equivalent Meter Units (EMUs), which is explained in 4.2 of this report section.

### Variable Costs

Variable costs are those costs that change in total as the volume of water consumption changes, as measured in a specific time period. These include well pumping and distribution electricity costs, and costs related to plant-in-service, the largest of which is supplies, as well as other costs determined in the functional allocation. Variable costs are recovered through use charges applied per hundred cubic feet (HCF) consumed.

The costs are functionalized and allocated to fixed charges and use charges as shown in **Table 13**. In total, the functional allocation assigns 49% of costs to service charges and 51% of costs to use charges.

**Table 13**  
**Allocation of Revenue Requirement to Service and Use Charges**

| Cost Classification           |     | FY Ending   |             |             |             |             |             |
|-------------------------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
|                               |     | 2025        | 2026        | 2027        | 2028        | 2029        | 2030        |
| Rates Revenue                 |     | \$3,059,000 | \$3,365,000 | \$3,870,000 | \$4,257,000 | \$4,470,000 | \$4,694,000 |
| Fixed Monthly Charges         |     |             |             |             |             |             |             |
| Customer                      | 31% | \$951,558   | \$1,046,745 | \$1,203,835 | \$1,324,218 | \$1,390,476 | \$1,460,155 |
| Capacity (Readiness-to-Serve) | 18% | \$543,584   | \$597,960   | \$687,699   | \$756,469   | \$794,319   | \$834,124   |
| Total Fixed Monthly Charges   | 49% | \$1,495,142 | \$1,644,705 | \$1,891,534 | \$2,080,687 | \$2,184,795 | \$2,294,279 |
| Use Charges                   |     |             |             |             |             |             |             |
| Capacity (Peaking)            | 12% | \$371,009   | \$408,122   | \$469,371   | \$516,308   | \$542,142   | \$569,310   |
| Commodity                     | 39% | \$1,192,848 | \$1,312,172 | \$1,509,095 | \$1,660,005 | \$1,743,064 | \$1,830,412 |
| Total Use Charges             | 51% | \$1,563,858 | \$1,720,295 | \$1,978,466 | \$2,176,313 | \$2,285,205 | \$2,399,721 |

Source: HEC water rate study, August 2024.

## 4.2 RATE CALCULATIONS

### Service Charges

The calculation of monthly service charges by meter size is shown in **Table 14**.

Fixed costs are divided by the number of EMUs to determine the per month service charges. The most common method for levying fixed charges is by meter size because meter size is an indicator of potential capacity or demand requirement that each customer places on the water system. Typically, but not always, the ratio at which the meter charge increases is a function of the meter's safe operating capacity as established by the American Water Works Association. These meter ratios are used because a significant portion of a water system's design, and, in turn, the utility's operating and capital costs are related to meeting capacity needs. The 2015 San Juan Capistrano decision reaffirmed that rates must be proportional to

the costs of service received. Customers with larger water meters have greater capacity to use the water system; therefore, base monthly service charges should be collected by water meter size.

**Table 14**  
**Calculation of Monthly Service Charges**

| Item                                    | FY Ending          |                    |                    |                    |                    |                    |
|-----------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                         | 2025               | 2026               | 2027               | 2028               | 2029               | 2030               |
| Est. Billable EMUs [1]                  | 3,864              | 3,894              | 3,924              | 3,954              | 3,984              | 4,014              |
| <b>Allocated Costs</b>                  | <b>\$1,495,142</b> | <b>\$1,644,705</b> | <b>\$1,891,534</b> | <b>\$2,080,687</b> | <b>\$2,184,795</b> | <b>\$2,294,279</b> |
| <b>Monthly Service Charge per Meter</b> |                    |                    |                    |                    |                    |                    |
| 5/8-inch                                | <b>\$32.24</b>     | <b>\$35.19</b>     | <b>\$40.17</b>     | <b>\$43.85</b>     | <b>\$45.69</b>     | <b>\$47.63</b>     |
| 3/4-inch                                | \$32.24            | \$35.19            | \$40.17            | \$43.85            | \$45.69            | \$47.63            |
| 1-inch                                  | \$32.24            | \$35.19            | \$40.17            | \$43.85            | \$45.69            | \$47.63            |
| 1.5-inch                                | \$64.48            | \$70.39            | \$80.33            | \$87.70            | \$91.39            | \$95.25            |
| 2-inch                                  | \$103.17           | \$112.62           | \$128.53           | \$140.31           | \$146.22           | \$152.40           |
| 3-inch                                  | \$225.69           | \$246.36           | \$281.16           | \$306.93           | \$319.86           | \$333.38           |
| 4-inch                                  | \$386.90           | \$422.33           | \$481.99           | \$526.17           | \$548.34           | \$571.51           |
| 6-inch                                  | \$806.04           | \$879.85           | \$1,004.15         | \$1,096.19         | \$1,142.37         | \$1,190.65         |
| 8-inch                                  | \$1,160.70         | \$1,266.98         | \$1,445.98         | \$1,578.51         | \$1,645.01         | \$1,714.54         |
| 10-inch                                 | \$1,870.02         | \$2,041.24         | \$2,329.63         | \$2,543.16         | \$2,650.30         | \$2,762.31         |

Source: HEC.

[1] Projected meter equivalents based on addition of 30 1-inch meters each year.

The calculation of EMUs is provided in **Table 15**. Supporting **Table A-14** breaks down the meters by customer type. As of April 2024, the City had 3,576 billing water meters.

### Use Charges

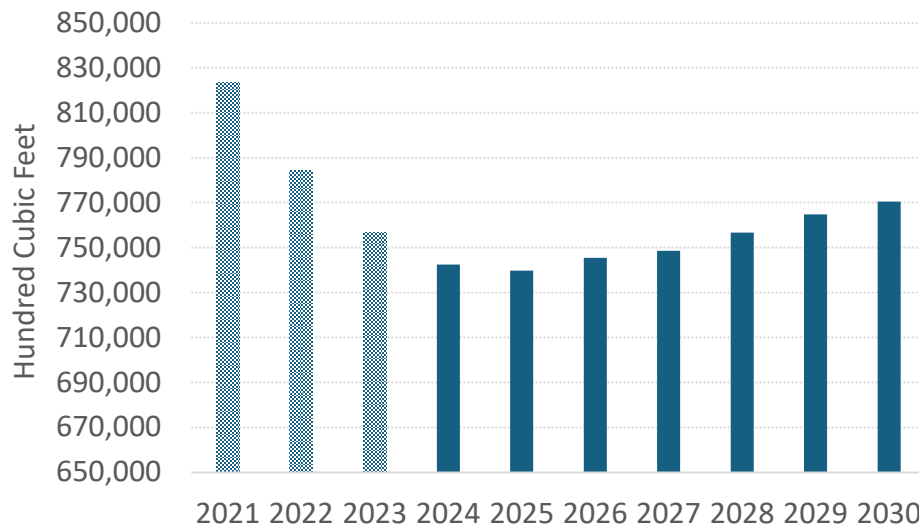
The calculation of use charges is based on allocated cost and projected water use. Historical water demand and projected water demand for the next six years is shown in **Figure 9**. The summary of water demand by customer category (**Table A-15**) is based on average water use for the past three years plus the assumed addition of 30 1-inch meters per year. In addition, the projected water demand accounts for customers' reactions to price increases. The relationship between increased prices and decreased demand is referred to as price elasticity. Price elasticity varies by geography due to many micro-economic variables. HEC applied industry knowledge to establish assumed price elasticity factors for the Study. Price elasticity analysis is shown in **Tables A-16** and **A-17**.

**Table 15**  
**Equivalent Meter Units**

| Meter Size   | Number of<br>Billing<br>Meters | Meter<br>Flow (gpm) | Ratios | Billable<br>Equivalent<br>Meter Units |
|--------------|--------------------------------|---------------------|--------|---------------------------------------|
| 5/8-inch     | 3,093                          | 10                  | 1.0    | 3,093                                 |
| 3/4-inch     | 256                            | 15                  | 1.0    | 256                                   |
| 1-inch       | 159                            | 25                  | 1.0    | 159                                   |
| 1.5-inch     | 7                              | 50                  | 2.0    | 14                                    |
| 2-inch       | 47                             | 80                  | 3.2    | 150                                   |
| 3-inch       | 3                              | 175                 | 7.0    | 21                                    |
| 4-inch       | 8                              | 300                 | 12.0   | 96                                    |
| 6-inch       | 3                              | 625                 | 25.0   | 75                                    |
| 8-inch       | 0                              | 900                 | 36.0   | 0                                     |
| 10-inch      | 0                              | 1,450               | 58.0   | 0                                     |
| <b>Total</b> | <b>3,576</b>                   |                     |        | <b>3,864</b>                          |

Source: City of Newman and AWWA.

**Figure 9**  
**Historical and Projected Water Demand**



Capacity (peaking) costs are allocated among the customer categories using maximum day and month usage data presented in **Table A-18**. Commodity (use) costs are allocated using total annual water use by customer category.

**Table 16**  
**Use Costs Allocation to Customer Categories**

| Customer Category                               | % Share | FY Ending   |             |             |             |             |             |
|-------------------------------------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                 |         | 2025        | 2026        | 2027        | 2028        | 2029        | 2030        |
| Capacity (Peaking) Cost Share                   |         |             |             |             |             |             |             |
| Total Cost Share                                |         | \$371,009   | \$408,122   | \$469,371   | \$516,308   | \$542,142   | \$569,310   |
| Residential                                     |         |             |             |             |             |             |             |
| Single Family                                   | 70%     | \$258,087   | \$283,904   | \$326,511   | \$359,162   | \$377,132   | \$396,031   |
| Multi Family                                    | 3%      | \$11,674    | \$12,842    | \$14,769    | \$16,246    | \$17,059    | \$17,914    |
| Non-Residential                                 |         |             |             |             |             |             |             |
| Commercial                                      | 3%      | \$12,517    | \$13,769    | \$15,835    | \$17,419    | \$18,290    | \$19,207    |
| Industrial                                      | 8%      | \$29,212    | \$32,134    | \$36,957    | \$40,652    | \$42,686    | \$44,826    |
| Landscape                                       | 16%     | \$59,520    | \$65,473    | \$75,299    | \$82,829    | \$86,974    | \$91,332    |
| Total Capacity (Peaking) Costs                  |         |             |             |             |             |             |             |
| Commodity (Use) Cost Share                      |         |             |             |             |             |             |             |
| Total Cost Share                                |         | \$1,192,848 | \$1,312,172 | \$1,509,095 | \$1,660,005 | \$1,743,064 | \$1,830,412 |
| Residential                                     |         |             |             |             |             |             |             |
| Single Family                                   | 70%     | \$831,842   | \$915,054   | \$1,052,380 | \$1,157,618 | \$1,215,539 | \$1,276,452 |
| Multi Family                                    | 4%      | \$44,492    | \$48,943    | \$56,288    | \$61,916    | \$65,014    | \$68,272    |
| Non-Residential                                 |         |             |             |             |             |             |             |
| Commercial                                      | 4%      | \$52,635    | \$57,900    | \$66,590    | \$73,248    | \$76,913    | \$80,768    |
| Industrial                                      | 13%     | \$151,156   | \$166,277   | \$191,231   | \$210,354   | \$220,879   | \$231,948   |
| Landscape                                       | 9%      | \$112,723   | \$123,999   | \$142,608   | \$156,868   | \$164,717   | \$172,972   |
| Total Commodity (Use) Costs                     |         | \$1,192,848 | \$1,312,172 | \$1,509,095 | \$1,660,005 | \$1,743,064 | \$1,830,412 |
| Total Costs to be Recovered through Use Charges |         |             |             |             |             |             |             |
| Total Cost Share                                |         |             |             |             |             |             |             |
| Single Family                                   | 70%     | \$1,089,929 | \$1,198,957 | \$1,378,890 | \$1,516,779 | \$1,592,672 | \$1,672,483 |
| Multi Family                                    | 4%      | \$56,166    | \$61,785    | \$71,057    | \$78,163    | \$82,074    | \$86,187    |
| Non-Residential                                 |         |             |             |             |             |             |             |
| Commercial                                      | 4%      | \$65,152    | \$71,669    | \$82,425    | \$90,667    | \$95,204    | \$99,974    |
| Industrial                                      | 12%     | \$180,368   | \$198,411   | \$228,188   | \$251,006   | \$263,566   | \$276,773   |
| Landscape                                       | 11%     | \$172,242   | \$189,472   | \$217,907   | \$239,698   | \$251,691   | \$264,304   |
| Total Costs                                     |         | \$1,563,858 | \$1,720,295 | \$1,978,466 | \$2,176,313 | \$2,285,205 | \$2,399,721 |

Source: City consumption records and HEC 2024 water rate study.

The calculation of cost per HCF for non-landscape and landscape meters is presented in **Table 17**.

**Table 17**  
**Calculation of Use Charges per HCF**

| Customer<br>Category | FY Ending     |               |               |               |               |               |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                      | 2025          | 2026          | 2027          | 2028          | 2029          | 2030          |
| <b>Non-Landscape</b> |               |               |               |               |               |               |
| Use in HCF           | 670,594       | 675,933       | 679,707       | 686,603       | 693,524       | 698,866       |
| Allocated Cost       | \$1,391,615   | \$1,530,822   | \$1,760,559   | \$1,936,615   | \$2,033,514   | \$2,135,418   |
| <b>Cost per HCF</b>  | <b>\$2.08</b> | <b>\$2.26</b> | <b>\$2.59</b> | <b>\$2.82</b> | <b>\$2.93</b> | <b>\$3.06</b> |
| <b>Landscape</b>     |               |               |               |               |               |               |
| Use in HCF           | 69,168        | 69,472        | 68,898        | 70,076        | 71,261        | 71,564        |
| Allocated Cost       | \$172,242     | \$189,472     | \$217,907     | \$239,698     | \$251,691     | \$264,304     |
| <b>Cost per HCF</b>  | <b>\$2.49</b> | <b>\$2.73</b> | <b>\$3.16</b> | <b>\$3.42</b> | <b>\$3.53</b> | <b>\$3.69</b> |

Source: City of Newman and HEC.

### **Meter Replacement Fee**

The calculated meter replacement fees are shown in **Table 18**. Supporting **Table A-19** provides the basis of the water meter replacement fee costs. Projected revenue from the meter replacement fees is calculated in **Table A-20**.

**Table 18**  
**Calculated Meter Replacement Fee**

| Meter<br>Size                                       | Rates implemented January |          |          |          |          |          |
|-----------------------------------------------------|---------------------------|----------|----------|----------|----------|----------|
|                                                     | 2025                      | 2026     | 2027     | 2028     | 2029     | 2030     |
| <i>San Francisco CPI Historical Annual Increase</i> |                           |          |          | 3.5%     |          |          |
| 5/8-inch                                            | \$2.73                    | \$2.83   | \$2.93   | \$3.03   | \$3.14   | \$3.25   |
| 3/4-inch                                            | \$3.28                    | \$3.40   | \$3.52   | \$3.64   | \$3.77   | \$3.90   |
| 1-inch                                              | \$3.69                    | \$3.82   | \$3.95   | \$4.09   | \$4.24   | \$4.39   |
| 1.5-inch                                            | \$8.20                    | \$8.49   | \$8.79   | \$9.10   | \$9.42   | \$9.75   |
| 2-inch                                              | \$19.14                   | \$19.81  | \$20.51  | \$21.24  | \$21.98  | \$22.76  |
| 3-inch                                              | \$24.61                   | \$25.48  | \$26.37  | \$27.30  | \$28.26  | \$29.26  |
| 4-inch                                              | \$38.28                   | \$39.63  | \$41.03  | \$42.47  | \$43.97  | \$45.52  |
| 6-inch                                              | \$91.74                   | \$94.97  | \$98.32  | \$101.78 | \$105.37 | \$109.08 |
| 8-inch                                              | \$110.45                  | \$114.34 | \$118.36 | \$122.53 | \$126.85 | \$131.32 |
| 10-inch                                             | \$137.79                  | \$142.64 | \$147.67 | \$152.87 | \$158.26 | \$163.83 |

Source HEC.

### Calculated Rate Schedule

Total calculated rates include the fixed monthly service charges and variable use charges per HCF. The calculated water rates schedule for the next six years is provided in **Table 19**.

**Table 19**  
**Calculated Water Rates**

| Fee Component                       | Current    | New Rate Schedule implemented January |            |            |            |            |            |
|-------------------------------------|------------|---------------------------------------|------------|------------|------------|------------|------------|
|                                     | Rates      | 2025                                  | 2026       | 2027       | 2028       | 2029       | 2030       |
| Monthly Service Charge per Meter    |            |                                       |            |            |            |            |            |
| 5/8-inch                            | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 3/4-inch                            | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 1-inch                              | \$28.42    | \$32.24                               | \$35.19    | \$40.17    | \$43.85    | \$45.69    | \$47.63    |
| 1.5-inch                            | \$56.84    | \$64.48                               | \$70.39    | \$80.33    | \$87.70    | \$91.39    | \$95.25    |
| 2-inch                              | \$90.94    | \$103.17                              | \$112.62   | \$128.53   | \$140.31   | \$146.22   | \$152.40   |
| 3-inch                              | \$198.92   | \$225.69                              | \$246.36   | \$281.16   | \$306.93   | \$319.86   | \$333.38   |
| 4-inch                              | \$341.01   | \$386.90                              | \$422.33   | \$481.99   | \$526.17   | \$548.34   | \$571.51   |
| 6-inch                              | \$710.44   | \$806.04                              | \$879.85   | \$1,004.15 | \$1,096.19 | \$1,142.37 | \$1,190.65 |
| 8-inch                              | \$1,023.03 | \$1,160.70                            | \$1,266.98 | \$1,445.98 | \$1,578.51 | \$1,645.01 | \$1,714.54 |
| 10-inch                             | \$1,648.22 | \$1,870.02                            | \$2,041.24 | \$2,329.63 | \$2,543.16 | \$2,650.30 | \$2,762.31 |
| Monthly Water Meter Replacement Fee |            |                                       |            |            |            |            |            |
| 5/8-inch                            | \$1.45     | \$2.73                                | \$2.83     | \$2.93     | \$3.03     | \$3.14     | \$3.25     |
| 3/4-inch                            | \$1.83     | \$3.28                                | \$3.40     | \$3.52     | \$3.64     | \$3.77     | \$3.90     |
| 1-inch                              | \$2.45     | \$3.69                                | \$3.82     | \$3.95     | \$4.09     | \$4.24     | \$4.39     |
| 1.5-inch                            | \$5.36     | \$8.20                                | \$8.49     | \$8.79     | \$9.10     | \$9.42     | \$9.75     |
| 2-inch                              | \$11.73    | \$19.14                               | \$19.81    | \$20.51    | \$21.24    | \$21.98    | \$22.76    |
| 3-inch                              | \$14.74    | \$24.61                               | \$25.48    | \$26.37    | \$27.30    | \$28.26    | \$29.26    |
| 4-inch                              | \$21.43    | \$38.28                               | \$39.63    | \$41.03    | \$42.47    | \$43.97    | \$45.52    |
| 6-inch                              | \$51.55    | \$91.74                               | \$94.97    | \$98.32    | \$101.78   | \$105.37   | \$109.08   |
| 8-inch                              | \$63.03    | \$110.45                              | \$114.34   | \$118.36   | \$122.53   | \$126.85   | \$131.32   |
| 10-inch                             | \$79.18    | \$137.79                              | \$142.64   | \$147.67   | \$152.87   | \$158.26   | \$163.83   |
| Use Charge per HCF                  |            |                                       |            |            |            |            |            |
| Non-Landscape                       | \$1.75     | \$2.08                                | \$2.26     | \$2.59     | \$2.82     | \$2.93     | \$3.06     |
| Landscape                           | \$2.25     | \$2.49                                | \$2.73     | \$3.16     | \$3.42     | \$3.53     | \$3.69     |

### 4.3 SINGLE-FAMILY BILL IMPACTS

Residential bill impacts between current rates and new rates beginning January 2025 at different use levels are shown in **Table 20** for a home with a 5/8-inch meter. Most homes would have an increase of about \$8-\$9 per month, on average.

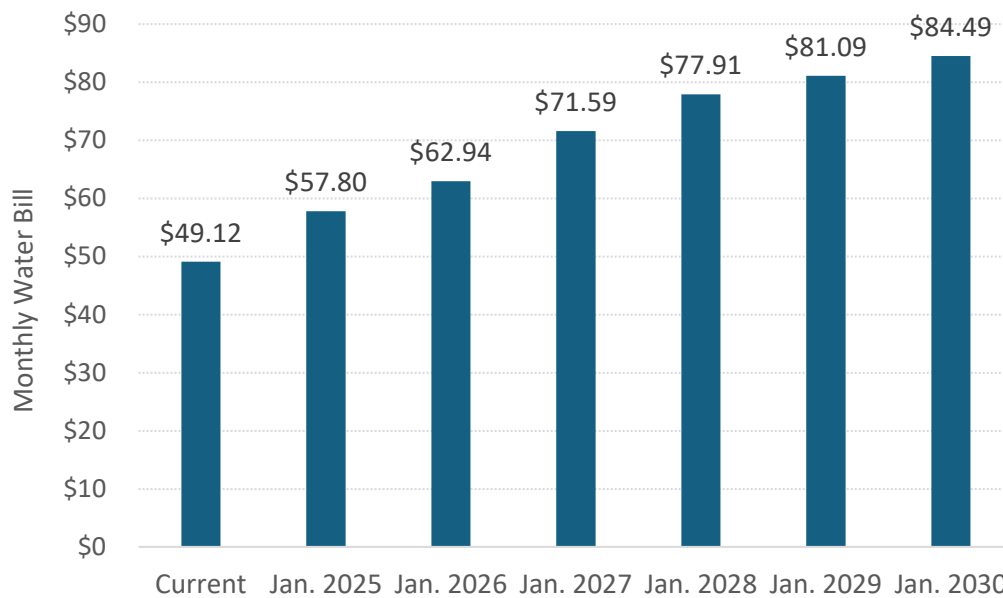
**Table 20**  
**Single Family Water Usage Monthly Bill Impacts**

| Monthly<br>Use<br>in HCF | Current             |           |               | Total<br>Monthly<br>Bill | Jan-25              |           |               | Total<br>Monthly<br>Bill | Change<br>in<br>Bill |
|--------------------------|---------------------|-----------|---------------|--------------------------|---------------------|-----------|---------------|--------------------------|----------------------|
|                          | Service Fee         | Meter Fee | Use<br>Charge |                          | Service Fee         | Meter Fee | Use<br>Charge |                          |                      |
|                          | 5/8-inch            |           |               |                          | 5/8-inch            |           |               |                          |                      |
|                          | <i>Rate per HCF</i> |           |               |                          | <i>Rate per HCF</i> |           |               |                          |                      |
|                          | \$1.75              |           |               |                          | \$2.08              |           |               |                          |                      |
| 1                        | \$28.42             | \$1.45    | \$1.75        | <b>\$31.62</b>           | \$32.24             | \$2.73    | \$2.08        | <b>\$37.05</b>           | \$5.43               |
| 2                        | \$28.42             | \$1.45    | \$3.50        | <b>\$33.37</b>           | \$32.24             | \$2.73    | \$4.15        | <b>\$39.13</b>           | \$5.76               |
| 3                        | \$28.42             | \$1.45    | \$5.25        | <b>\$35.12</b>           | \$32.24             | \$2.73    | \$6.23        | <b>\$41.20</b>           | \$6.08               |
| 4                        | \$28.42             | \$1.45    | \$7.00        | <b>\$36.87</b>           | \$32.24             | \$2.73    | \$8.30        | <b>\$43.28</b>           | \$6.41               |
| 5                        | \$28.42             | \$1.45    | \$8.75        | <b>\$38.62</b>           | \$32.24             | \$2.73    | \$10.38       | <b>\$45.35</b>           | \$6.73               |
| 6                        | \$28.42             | \$1.45    | \$10.50       | <b>\$40.37</b>           | \$32.24             | \$2.73    | \$12.45       | <b>\$47.43</b>           | \$7.06               |
| 7                        | \$28.42             | \$1.45    | \$12.25       | <b>\$42.12</b>           | \$32.24             | \$2.73    | \$14.53       | <b>\$49.50</b>           | \$7.38               |
| 8                        | \$28.42             | \$1.45    | \$14.00       | <b>\$43.87</b>           | \$32.24             | \$2.73    | \$16.60       | <b>\$51.58</b>           | \$7.71               |
| 9                        | \$28.42             | \$1.45    | \$15.75       | <b>\$45.62</b>           | \$32.24             | \$2.73    | \$18.68       | <b>\$53.65</b>           | \$8.03               |
| 10                       | \$28.42             | \$1.45    | \$17.50       | <b>\$47.37</b>           | \$32.24             | \$2.73    | \$20.75       | <b>\$55.73</b>           | \$8.36               |
| 11                       | \$28.42             | \$1.45    | \$19.25       | <b>\$49.12</b>           | \$32.24             | \$2.73    | \$22.83       | <b>\$57.80</b>           | \$8.68               |
| 12                       | \$28.42             | \$1.45    | \$21.00       | <b>\$50.87</b>           | \$32.24             | \$2.73    | \$24.90       | <b>\$59.88</b>           | \$9.01               |
| 13                       | \$28.42             | \$1.45    | \$22.75       | <b>\$52.62</b>           | \$32.24             | \$2.73    | \$26.98       | <b>\$61.95</b>           | \$9.33               |
| 14                       | \$28.42             | \$1.45    | \$24.50       | <b>\$54.37</b>           | \$32.24             | \$2.73    | \$29.05       | <b>\$64.03</b>           | \$9.66               |
| 15                       | \$28.42             | \$1.45    | \$26.25       | <b>\$56.12</b>           | \$32.24             | \$2.73    | \$31.13       | <b>\$66.10</b>           | \$9.98               |
| 16                       | \$28.42             | \$1.45    | \$28.00       | <b>\$57.87</b>           | \$32.24             | \$2.73    | \$33.20       | <b>\$68.18</b>           | \$10.31              |
| 17                       | \$28.42             | \$1.45    | \$29.75       | <b>\$59.62</b>           | \$32.24             | \$2.73    | \$35.28       | <b>\$70.25</b>           | \$10.63              |
| 18                       | \$28.42             | \$1.45    | \$31.50       | <b>\$61.37</b>           | \$32.24             | \$2.73    | \$37.35       | <b>\$72.33</b>           | \$10.96              |
| 19                       | \$28.42             | \$1.45    | \$33.25       | <b>\$63.12</b>           | \$32.24             | \$2.73    | \$39.43       | <b>\$74.40</b>           | \$11.28              |
| 20                       | \$28.42             | \$1.45    | \$35.00       | <b>\$64.87</b>           | \$32.24             | \$2.73    | \$41.50       | <b>\$76.48</b>           | \$11.61              |
| 25                       | \$28.42             | \$1.45    | \$43.75       | <b>\$73.62</b>           | \$32.24             | \$2.73    | \$51.88       | <b>\$86.86</b>           | \$13.24              |
| 30                       | \$28.42             | \$1.45    | \$52.50       | <b>\$82.37</b>           | \$32.24             | \$2.73    | \$62.26       | <b>\$97.23</b>           | \$14.86              |
| 35                       | \$28.42             | \$1.45    | \$61.25       | <b>\$91.12</b>           | \$32.24             | \$2.73    | \$72.63       | <b>\$107.61</b>          | \$16.49              |
| 40                       | \$28.42             | \$1.45    | \$70.00       | <b>\$99.87</b>           | \$32.24             | \$2.73    | \$83.01       | <b>\$117.98</b>          | \$18.11              |
| 45                       | \$28.42             | \$1.45    | \$78.75       | <b>\$108.62</b>          | \$32.24             | \$2.73    | \$93.38       | <b>\$128.36</b>          | \$19.74              |
| 50                       | \$28.42             | \$1.45    | \$87.50       | <b>\$117.37</b>          | \$32.24             | \$2.73    | \$103.76      | <b>\$138.74</b>          | \$21.37              |

Source: HEC.

**Figure 10** shows projected single family water bills for Newman through December 2030 at 11 HCF water usage per month.

**Figure 10**  
**Projected Single Family Bill for 11 HCF**



### Affordability Test

**Table 21** shows two pieces of information considered by federal and state agencies when offering financial assistance to water providers.

1. The median household income (MHI) of the community compared to the State MHI.
2. The percentage of MHI spent on water bills.

First, the City of Newman has an MHI that is 83.26% of the State's MHI. If a community's MHI is less than 80 percent of the State MHI, the community is considered "Disadvantaged", and more advantageous financing, such as loan repayment term, or grant and/or principal forgiveness, will be provided. The City of Newman does not meet the definition of Disadvantaged, making the more advantageous financing more challenging to get, unless a public health issue is being addressed.

Second, the water bill for an account with a 1-inch meter and consumption of 11 HCF is \$50.12 and calculated to be \$58.76 starting January 1, 2025. These bills are lower than 1.0% of the City's monthly MHI. Water rates usually need to be greater than 1.5% of MHI for federal and state agencies to offer principal forgiveness or grant funding, and bills below this level are considered reasonable.

The MHI analysis demonstrates that water bills (and rates) are affordable using the funding agencies' criteria.

**Table 21**  
**Test of Water Rates Affordability**

| Item                                            | Current<br>(2024)              | Calculated<br>Jan 2025 |
|-------------------------------------------------|--------------------------------|------------------------|
| <b>Median Household Income (MHI)</b>            |                                |                        |
| Statewide California [1]                        | \$91,905                       |                        |
| Estimated Newman [1]                            | \$76,520                       |                        |
| <b>Newman MHI as % of the State MHI [2]</b>     | <b>83.26%</b>                  |                        |
| <b>Monthly Water Bill</b>                       |                                |                        |
|                                                 | <i>Bill for a 1-inch meter</i> |                        |
| Newman Monthly MHI                              | \$6,377                        | \$6,377                |
| Avg. Monthly Water Bill                         | \$50.12                        | \$58.76                |
| <b>Avg. Monthly Bill as % of Newman MHI [3]</b> | <b>0.79%</b>                   | <b>0.92%</b>           |

Source: HEC, California State Water Resources Control Board, and US Census Bureau.

[1] 2022 5-year American Community Survey.

[2] Per the Drinking Water State Revolving Fund program, a community with an MHI <80% of the Statewide MHI is Disadvantaged.

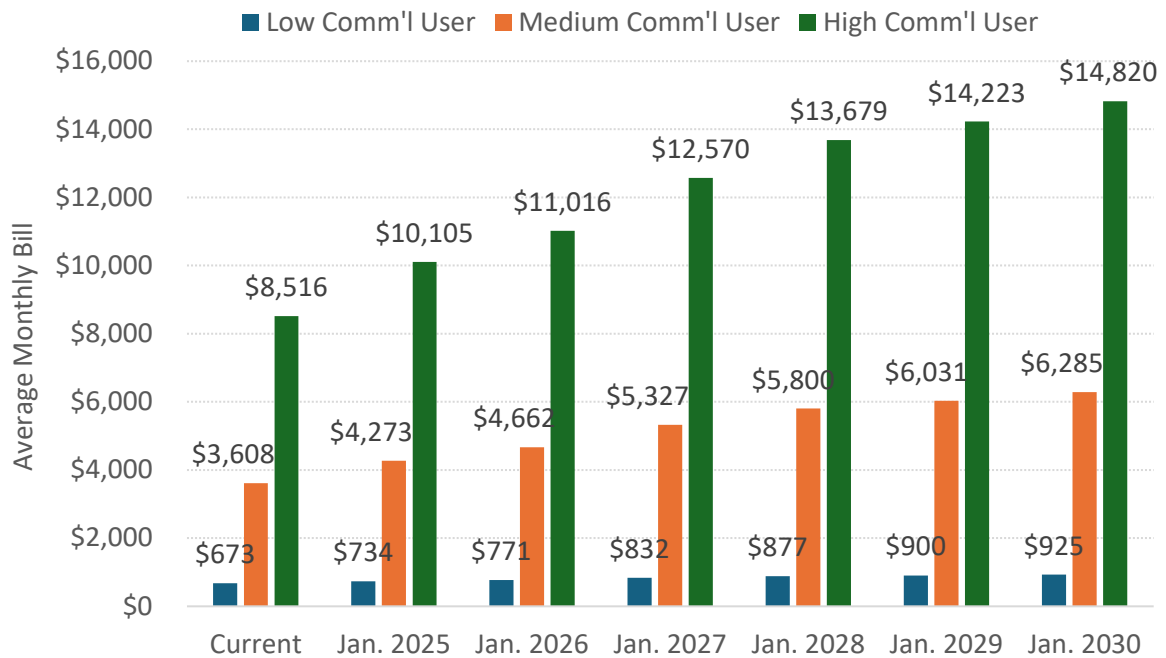
[3] Generally, water bills <2.0% are considered reasonable.

#### **4.4 NON-RESIDENTIAL BILL IMPACTS**

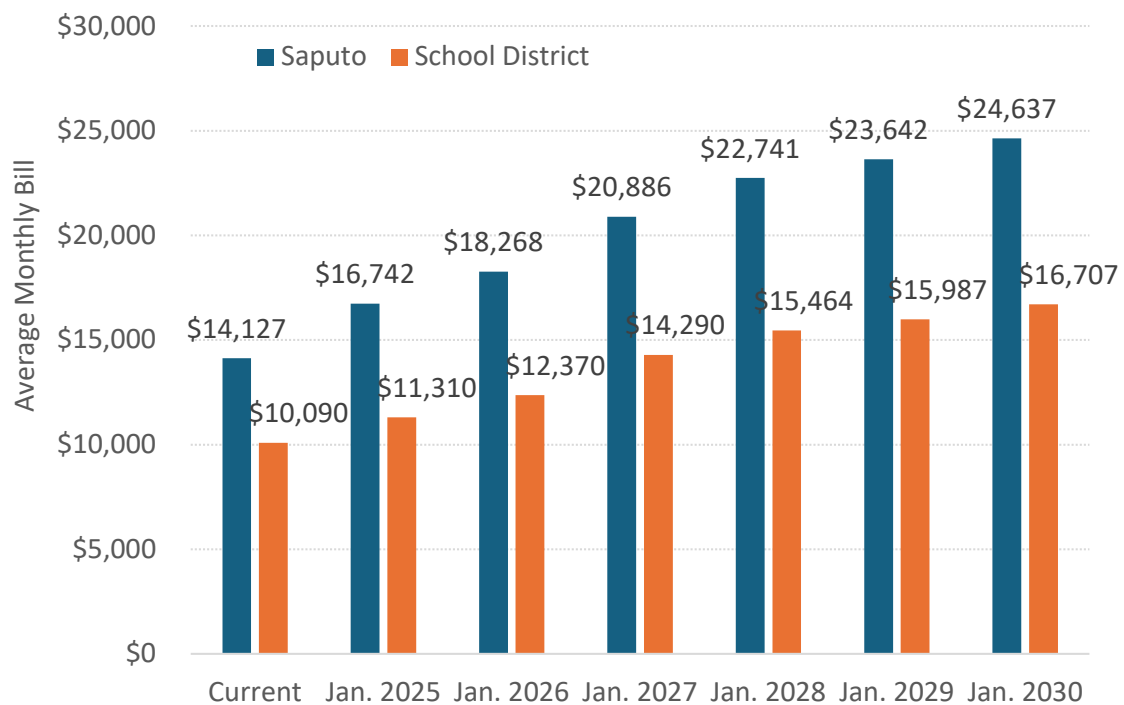
The effect of the calculated rate increases for a sample of non-residential customer types is shown in **Figure 11**. The impact is shown on an average monthly basis. Because bills for non-residential customers will vary by business type and through the year, the examples given are only illustrative. A low, medium, and high-water user were selected for illustration.

The impacts to Saputo, the largest industrial user of water, and the Newman Crows Landing Unified School District were calculated separately using actual water consumption from 2023. **Figure 12** shows the average monthly bill impacts to these two customers.

**Figure 11**  
**Estimated Monthly Bill Impacts for Sample Commercial Customers**



**Figure 12**  
**Estimated Bill Impacts to Newman-Crows Landing USD and Saputo**





# **APPENDIX A**

## **WATER FEES**

### **SUPPORT TABLES**



**Table A-1**  
**City of Newman Water Rate Study**  
**Historical Population and Housing Estimates**

| Year                 | Population |                       |             | Housing Units |                       |             |
|----------------------|------------|-----------------------|-------------|---------------|-----------------------|-------------|
|                      | Persons    | Increase/<br>Decrease | % Change    | Units         | Increase/<br>Decrease | % Change    |
| 2000                 | 7,092      |                       |             | 2,078         |                       |             |
| 2001                 | 7,504      | 412                   | 5.8%        | 2,279         | 201                   | 9.7%        |
| 2002                 | 7,569      | 65                    | 0.9%        | 2,283         | 4                     | 0.2%        |
| 2003                 | 7,786      | 217                   | 2.9%        | 2,335         | 52                    | 2.3%        |
| 2004                 | 8,342      | 556                   | 7.1%        | 2,503         | 168                   | 7.2%        |
| 2005                 | 9,111      | 769                   | 9.2%        | 2,756         | 253                   | 10.1%       |
| 2006                 | 10,086     | 975                   | 10.7%       | 3,092         | 336                   | 12.2%       |
| 2007                 | 10,227     | 141                   | 1.4%        | 3,160         | 68                    | 2.2%        |
| 2008                 | 10,507     | 280                   | 2.7%        | 3,243         | 83                    | 2.6%        |
| 2009                 | 10,716     | 209                   | 2.0%        | 3,305         | 62                    | 1.9%        |
| 2010                 | 10,224     | -492                  | -4.6%       | 3,357         | 52                    | 1.6%        |
| 2011                 | 10,634     | 410                   | 4.0%        | 3,431         | 74                    | 2.2%        |
| 2012                 | 10,726     | 92                    | 0.9%        | 3,439         | 8                     | 0.2%        |
| 2013                 | 10,798     | 72                    | 0.7%        | 3,438         | -1                    | 0.0%        |
| 2014                 | 10,864     | 66                    | 0.6%        | 3,437         | -1                    | 0.0%        |
| 2015                 | 10,932     | 68                    | 0.6%        | 3,437         | 0                     | 0.0%        |
| 2016                 | 11,130     | 198                   | 1.8%        | 3,469         | 32                    | 0.9%        |
| 2017                 | 11,471     | 341                   | 3.1%        | 3,527         | 58                    | 1.7%        |
| 2018                 | 11,497     | 26                    | 0.2%        | 3,599         | 72                    | 2.0%        |
| 2019                 | 11,738     | 241                   | 2.1%        | 3,655         | 56                    | 1.6%        |
| 2020                 | 12,356     | 618                   | 5.3%        | 3,739         | 84                    | 2.3%        |
| 2021                 | 12,334     | -22                   | -0.2%       | 3,743         | 4                     | 0.1%        |
| 2022                 | 12,218     | -116                  | -0.9%       | 3,755         | 12                    | 0.3%        |
| 2023                 | 12,103     | -115                  | -0.9%       | 3,761         | 6                     | 0.2%        |
| 2024                 | 12,121     | 18                    | 0.1%        | 3,765         | 4                     | 0.1%        |
| <b>Total Change</b>  | 5,029      |                       | <b>2.3%</b> | 1,687         |                       | <b>2.5%</b> |
| <b>Last 10 years</b> | 1,257      |                       | <b>1.1%</b> | 328           |                       | <b>0.9%</b> |

Source: California Department of Finance.

stats

**Table A-2**  
**City of Newman Water Rate Study**  
**Well Production Data**

| Month                                          | Calendar Year      |                    |                    |                    |                    | Annual<br>Average           | % Delivery<br>by Month |
|------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------------|------------------------|
|                                                | 2019               | 2020               | 2021               | 2022               | 2023               |                             |                        |
| <i>All Figures in Gallons</i>                  |                    |                    |                    |                    |                    | <b>2019-2023</b>            |                        |
| January                                        | 31,799,000         | 33,582,000         | 37,217,000         | 34,546,146         | 29,819,000         | 33,392,629                  | 4.6%                   |
| February                                       | 30,853,000         | 39,505,000         | 31,609,000         | 40,734,915         | 31,650,603         | 34,870,504                  | 4.9%                   |
| March                                          | 36,908,000         | 46,302,000         | 47,099,000         | 54,246,533         | 35,408,932         | 43,992,893                  | 6.1%                   |
| April                                          | 54,286,000         | 56,028,000         | 66,367,000         | 53,206,317         | 44,153,979         | 54,808,259                  | 7.6%                   |
| May                                            | 66,211,000         | 82,231,000         | 83,475,000         | 73,925,445         | 61,427,269         | 73,453,943                  | 10.2%                  |
| June                                           | 80,099,000         | 87,110,000         | 82,879,891         | 84,615,118         | 75,571,807         | 82,055,163                  | 11.4%                  |
| July                                           | 86,849,000         | 95,396,000         | 91,297,000         | 86,714,899         | 82,270,231         | 88,505,426                  | 12.3%                  |
| August                                         | 86,258,000         | 90,827,000         | 86,068,960         | 83,963,727         | 86,459,505         | 86,715,438                  | 12.1%                  |
| September                                      | 54,139,000         | 76,758,000         | 74,754,000         | 75,117,160         | 71,261,350         | 70,405,902                  | 9.8%                   |
| October                                        | 65,944,000         | 70,779,000         | 60,957,000         | 69,264,551         | 64,997,049         | 66,388,320                  | 9.2%                   |
| November                                       | 51,701,000         | 50,445,000         | 41,424,100         | 43,652,000         | 46,818,517         | 46,808,123                  | 6.5%                   |
| December                                       | 33,829,000         | 41,727,000         | 38,724,884         | 38,028,021         | 34,207,956         | 37,303,372                  | 5.2%                   |
| <b>Total</b>                                   | <b>678,876,000</b> | <b>770,690,000</b> | <b>741,872,835</b> | <b>738,014,832</b> | <b>664,046,198</b> | <b>A 718,699,973</b>        | <b>100.0%</b>          |
| Peaking Period (May through October inclusive) |                    |                    |                    |                    |                    | <b>B</b> 467,524,192        | 65%                    |
| Base Monthly Flow (December through February)  |                    |                    |                    |                    |                    | <b>C</b> 35,188,835         |                        |
| <b>Base Annual Flow</b>                        |                    |                    |                    |                    |                    | <b>D = C*12 422,266,020</b> | <b>59%</b>             |
| <b>Additional Flow</b>                         |                    |                    |                    |                    |                    | <b>E = A-D 296,433,953</b>  | <b>41%</b>             |

Source: City of Newman.

wells

**Table A-3**  
**City of Newman Water Rate Study**  
**Average 3-Year Consumption by Customer Category by Month**

| Customer Category           | Jan           | Feb           | Mar           | Apr           | May           | Jun           | Jul           | Aug           | Sep           | Oct           | Nov           | Dec           | Total          | Base           | Peaking        |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| <b>Residential</b>          |               |               |               |               |               |               |               |               |               |               |               |               |                | [1]            | [2]            |
| Single Family               | 28,802        | 27,993        | 29,533        | 37,022        | 47,632        | 59,466        | 62,448        | 65,227        | 63,888        | 53,433        | 42,266        | 31,843        | 549,552        | 345,312        | 204,240        |
| Multi Family                | 2,161         | 1,972         | 1,842         | 2,214         | 2,449         | 2,859         | 3,208         | 2,830         | 2,846         | 2,785         | 2,036         | 2,191         | 29,393         | 23,897         | 5,496          |
| <b>Subtotal Residential</b> | <b>30,962</b> | <b>29,965</b> | <b>31,375</b> | <b>39,236</b> | <b>50,080</b> | <b>62,326</b> | <b>65,656</b> | <b>68,057</b> | <b>66,734</b> | <b>56,218</b> | <b>44,302</b> | <b>34,034</b> | <b>578,945</b> | <b>369,209</b> | <b>209,736</b> |
| <b>Non-Residential</b>      |               |               |               |               |               |               |               |               |               |               |               |               |                |                |                |
| Commercial                  | 2,326         | 2,484         | 2,583         | 2,551         | 2,759         | 2,829         | 3,327         | 3,222         | 3,923         | 3,360         | 3,010         | 2,401         | 34,773         | 29,572         | 5,201          |
| Industrial                  | 8,282         | 7,286         | 7,500         | 7,303         | 8,117         | 8,375         | 8,908         | 8,432         | 10,155        | 8,998         | 8,525         | 7,979         | 99,861         | 92,271         | 7,590          |
| Landscape                   | 962           | 786           | 1,487         | 3,033         | 6,641         | 9,499         | 13,521        | 12,772        | 10,946        | 8,737         | 4,443         | 1,643         | 74,470         | 12,937         | 61,532         |
| <b>Subtotal Non-Res.</b>    | <b>11,570</b> | <b>10,555</b> | <b>11,570</b> | <b>12,887</b> | <b>17,517</b> | <b>20,703</b> | <b>25,756</b> | <b>24,426</b> | <b>25,024</b> | <b>21,095</b> | <b>15,978</b> | <b>12,022</b> | <b>209,103</b> | <b>134,780</b> | <b>74,323</b>  |
| <b>Total HCF [2]</b>        | <b>42,533</b> | <b>40,520</b> | <b>42,944</b> | <b>52,123</b> | <b>67,598</b> | <b>83,029</b> | <b>91,413</b> | <b>92,483</b> | <b>91,758</b> | <b>77,313</b> | <b>60,280</b> | <b>46,056</b> | <b>788,049</b> | <b>503,989</b> | <b>284,059</b> |
| <b>Percentage</b>           | <b>5%</b>     | <b>5%</b>     | <b>5%</b>     | <b>7%</b>     | <b>9%</b>     | <b>11%</b>    | <b>12%</b>    | <b>12%</b>    | <b>12%</b>    | <b>10%</b>    | <b>8%</b>     | <b>6%</b>     | <b>100%</b>    | <b>64%</b>     | <b>36%</b>     |

Source: City of Newman water meter reads.

[1] Average winter month consumption multiplied by twelve.

[2] All water use greater than average wintertime monthly water (base) use.

**Table A-4**  
**City of Newman Water Rate Study**  
**Historical Potable Water Demand**

| Customer Category               | 2021           | 2022           | 2023           | Average        | Percent of Avg. | Est. Base Year |
|---------------------------------|----------------|----------------|----------------|----------------|-----------------|----------------|
|                                 |                |                |                |                |                 | [1]<br>2024    |
| <b>Residential</b>              |                |                |                |                |                 |                |
| Single Family                   | 583,067        | 545,981        | 519,608        | 549,552        | 70%             | 517,808        |
| Multi Family                    | 31,520         | 28,960         | 27,700         | 29,393         | 4%              | 27,695         |
| <b>Subtotal Residential</b>     | <b>614,587</b> | <b>574,941</b> | <b>547,308</b> | <b>578,945</b> | <b>73%</b>      | <b>545,503</b> |
| <b>Non-Residential</b>          |                |                |                |                |                 |                |
| Commercial                      | 33,100         | 33,938         | 37,281         | 34,773         | 4%              | 32,764         |
| Industrial                      | 105,728        | 100,137        | 93,717         | 99,861         | 13%             | 94,092         |
| Landscape                       | 69,889         | 75,327         | 78,193         | 74,470         | 9%              | 70,168         |
| <b>Subtotal Non-Residential</b> | <b>208,717</b> | <b>209,402</b> | <b>209,191</b> | <b>209,103</b> | <b>27%</b>      | <b>197,025</b> |
| <b>Total HCF [2]</b>            | <b>823,304</b> | <b>784,343</b> | <b>756,499</b> | <b>788,049</b> | <b>100%</b>     | <b>742,528</b> |
| Newman Residents                | 12,334         | 12,218         | 12,103         |                |                 |                |
| Annual HCF per Resident         | 67             | 64             | 63             | 64             |                 |                |

Source: City of Newman.

[1] The average 3-year demand is reduced 5% to account for potential drought years.

[2] Excludes unbilled water for municipal purposes, hydrant and line flushing, well start up water, and system leaks.

**Table A-5**  
**City of Newman Water Rate Study**  
**Historical and Budgeted Financial Information**

| Revenues and Expenses              | FY Ending            |                      |                    |                    |                    |                    |                    |
|------------------------------------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                    | 2019                 | 2020                 | 2021               | 2022               | 2023               | 2024<br>Unaudited  | 2025<br>Budget     |
| <b>OPERATING FUND</b>              |                      |                      |                    |                    |                    |                    |                    |
| <b>Revenues</b>                    |                      |                      |                    |                    |                    |                    |                    |
| Interest Income                    | \$27,735             | \$17,665             | \$7,839            | \$7,777            | (\$22,070)         | \$40,761           | \$58,000           |
| Water Income                       | \$1,530,049          | \$1,748,094          | \$2,163,869        | \$2,076,615        | \$2,559,072        | \$2,743,243        | \$2,781,000        |
| Water Meter Replacement Fee        | \$66,543             | \$62,898             | \$67,244           | \$69,067           | \$76,817           | \$90,107           | \$90,000           |
| Water Recon Fee                    | \$15,050             | \$12,425             | \$100              | \$9,095            | \$24,750           | \$23,825           | \$23,000           |
| Administrative Surcharge           | \$0                  | \$47                 | \$0                | \$0                | \$0                | \$0                | \$0                |
| Misc Revenue/income                | \$1,434              | \$0                  | \$0                | \$97               | \$187              | \$0                | \$300              |
| Refunds & Reimbursements           | \$0                  | \$0                  | \$564              | \$0                | \$0                | \$168              | \$0                |
| Salary Reimbursements              | \$4,015              | \$4,627              | \$3,487            | \$3,208            | \$0                | (\$307)            | \$0                |
| Utility Application Fee            | \$10,625             | \$8,450              | \$7,600            | \$8,250            | \$7,225            | \$7,700            | \$8,000            |
| Penalty - Utility Payments         | \$33,691             | \$32,939             | \$116,677          | \$69,192           | \$29,423           | \$40,204           | \$40,000           |
| <b>Total Revenues</b>              | <b>\$1,689,143</b>   | <b>\$1,887,144</b>   | <b>\$2,367,380</b> | <b>\$2,243,301</b> | <b>\$2,675,404</b> | <b>\$2,945,700</b> | <b>\$3,000,300</b> |
| <b>Expenses</b>                    |                      |                      |                    |                    |                    |                    |                    |
| Wages and Salaries                 | \$425,747            | \$455,458            | \$488,590          | \$551,681          | \$582,350          | \$626,753          | \$691,430          |
| Benefits                           | \$321,647            | \$544,330            | \$344,678          | \$313,473          | \$372,442          | \$365,447          | \$462,108          |
| Contract Services                  | \$175,138            | \$145,836            | \$133,963          | \$196,909          | \$233,443          | \$213,465          | \$320,000          |
| Insurance                          | \$53,507             | \$57,615             | \$65,749           | \$89,266           | \$114,540          | \$147,269          | \$202,525          |
| Supplies                           | \$5,861              | \$12,468             | \$110,962          | \$96,780           | \$143,170          | \$115,722          | \$211,290          |
| Utilities - Electric               | \$183,062            | \$200,345            | \$207,263          | \$302,681          | \$371,753          | \$426,347          | \$480,350          |
| Utilities - Gas, Telephone,        | \$9,839              | \$10,878             | \$6,134            | \$26,105           | \$9,450            | \$12,247           | \$9,400            |
| Fuel                               | \$11,715             | \$11,647             | \$11,775           | \$17,221           | \$16,781           | \$14,868           | \$15,000           |
| Permits and Fees                   | \$15,848             | \$18,228             | \$19,099           | \$33,899           | \$26,080           | \$39,784           | \$18,000           |
| Equipment                          | \$1,177              | \$9,508              | \$9,821            | \$9,320            | \$26,103           | \$60,776           | \$25,969           |
| Administrative Surcharge           | \$89,485             | \$117,869            | \$120,371          | \$145,811          | \$130,178          | \$165,100          | \$164,772          |
| City Hall Purchase                 | \$0                  | \$0                  | \$0                | \$0                | \$0                | \$0                | \$0                |
| Miscellaneous                      | \$1,155,990          | \$965,932            | \$155,320          | \$220,899          | \$319,826          | \$234,431          | \$232,050          |
| <b>Total Expenses</b>              | <b>\$2,449,015</b>   | <b>\$2,550,114</b>   | <b>\$1,673,724</b> | <b>\$2,004,045</b> | <b>\$2,346,118</b> | <b>\$2,422,207</b> | <b>\$2,832,894</b> |
| Debt (Interest only)               | \$7,643              | \$6,044              | \$4,390            | \$2,683            | \$911              | \$0                | \$0                |
| Transfers In                       | \$0                  | \$0                  | \$0                | \$344,600          | \$0                | \$0                | \$0                |
| Transfers Out                      | \$910,896            | \$734,625            | \$5,945            | \$0                | \$0                | \$0                | \$0                |
| <b>Net Operating Fund Revenues</b> | <b>(\$1,678,412)</b> | <b>(\$1,403,638)</b> | <b>\$683,322</b>   | <b>\$236,573</b>   | <b>\$328,375</b>   | <b>\$523,493</b>   | <b>\$167,406</b>   |
| <b>CAPITAL FUND</b>                |                      |                      |                    |                    |                    |                    |                    |
| <b>Revenues</b>                    |                      |                      |                    |                    |                    |                    |                    |
| Dev Fees - Cap Conn Water          | \$7,763              | \$23,132             | \$2,588            | \$9,160            | \$17,595           | \$46,575           | \$86,000           |
| Impact Fees - Water                | \$18,243             | \$29,419             | \$3,440            | \$6,069            | \$15,362           | \$45,471           | \$68,000           |
| Interest Income                    | \$0                  | \$0                  | \$0                | \$0                | (\$158)            | \$0                | \$0                |
| Water Meter Fee                    | \$0                  | \$0                  | \$0                | \$0                | \$0                | \$0                | \$0                |
| Refunds & Reimbursements           | \$411                | \$135                | \$47               | \$0                | \$0                | \$0                | \$0                |
| <b>Total Revenues</b>              | <b>\$26,416</b>      | <b>\$52,686</b>      | <b>\$6,074</b>     | <b>\$15,228</b>    | <b>\$32,799</b>    | <b>\$92,046</b>    | <b>\$154,000</b>   |
| <b>Expenses</b>                    |                      |                      |                    |                    |                    |                    |                    |
| Contract Services                  | \$35,905             | \$64,233             | \$0                | \$0                | \$0                | \$0                | \$0                |
| Administrative Surcharge           | \$1,840              | \$0                  | \$3,017            | \$5,670            | \$0                | \$0                | \$0                |
| Equipment                          | \$0                  | \$0                  | \$0                | \$0                | \$0                | \$0                | \$0                |
| Loss on Equipment                  | \$0                  | \$68,750             | \$0                | \$0                | \$0                | \$0                | \$0                |
| Land Acquisition                   | \$0                  | \$0                  | \$0                | \$0                | \$0                | \$0                | \$0                |
| Building Improvements [1]          | \$0                  | \$0                  | \$0                | \$0                | \$0                | \$0                | \$150,000          |
| Water Capital Improvements         | \$0                  | \$111,213            | \$0                | \$0                | \$0                | \$0                | \$0                |
| <b>Total Expenses</b>              | <b>\$37,745</b>      | <b>\$244,196</b>     | <b>\$3,017</b>     | <b>\$5,670</b>     | <b>\$0</b>         | <b>\$0</b>         | <b>\$150,000</b>   |
| Transfers In                       | \$910,896            | \$732,842            | \$400,000          | \$0                | \$0                | \$0                | \$0                |
| <b>Net Capital Fund Revenues</b>   | <b>\$899,567</b>     | <b>\$541,332</b>     | <b>\$403,057</b>   | <b>\$9,558</b>     | <b>\$32,799</b>    | <b>\$92,046</b>    | <b>\$4,000</b>     |

Source: City of Newman.

[1] The FY 2025 budget includes \$150,000 for building improvements (pipeline replacement). This is included in the CIP.

**Table A-6**  
**City of Newman Water Rate Study**  
**Audited Financial Statements**

| Revenues and<br>Expenses               | FY Ending          |                    |                    |                    |                    |                    |
|----------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                        | 2018               | 2019               | 2020               | 2021               | 2022               | 2023               |
| <b>Operating Revenues</b>              |                    |                    |                    |                    |                    |                    |
| Service Charges                        | \$1,612,158        | \$1,611,642        | \$1,823,417        | \$2,231,213        | \$2,154,777        | \$2,660,639        |
| Miscellaneous Revenue                  | \$52,250           | \$49,765           | \$46,063           | \$128,330          | \$80,749           | \$36,834           |
| <b>Subtotal Operating Revenues</b>     | <b>\$1,664,408</b> | <b>\$1,661,407</b> | <b>\$1,869,480</b> | <b>\$2,359,543</b> | <b>\$2,235,526</b> | <b>\$2,697,473</b> |
| <b>Operating Expenses</b>              |                    |                    |                    |                    |                    |                    |
| Employee Services                      | \$618,508          | \$747,394          | \$999,789          | \$833,268          | \$865,153          | \$954,793          |
| Supplies and Services                  | \$824,059          | \$828,471          | \$1,059,897        | \$837,529          | \$1,147,338        | \$1,391,324        |
| <b>Subtotal Operating Expenses</b>     | <b>\$1,442,567</b> | <b>\$1,575,865</b> | <b>\$2,059,686</b> | <b>\$1,670,797</b> | <b>\$2,012,491</b> | <b>\$2,346,117</b> |
| <b>Non-Operating Revenues</b>          |                    |                    |                    |                    |                    |                    |
| Investment Earnings                    | \$19,804           | \$27,735           | \$17,665           | \$7,839            | \$7,777            | \$22,229           |
| Development Fees                       | \$49,705           | \$26,416           | \$52,686           | \$6,075            | \$15,229           | \$32,957           |
| Interest Expense                       | (\$9,203)          | (\$7,643)          | (\$6,044)          | (\$4,390)          | (\$2,683)          | (\$911)            |
| <b>Subtotal Non-Operating Revenues</b> | <b>\$60,306</b>    | <b>\$46,508</b>    | <b>\$64,307</b>    | <b>\$9,524</b>     | <b>\$20,323</b>    | <b>\$54,275</b>    |
| Transfer In                            | \$303,503          | \$910,896          | \$732,842          | \$400,000          | \$344,600          | \$0                |
| Transfer Out                           | (\$45,612)         | (\$910,896)        | (\$734,625)        | (\$5,945)          | \$0                | \$0                |
| <b>Net Income</b>                      | <b>\$540,038</b>   | <b>\$132,050</b>   | <b>(\$127,682)</b> | <b>\$1,092,325</b> | <b>\$587,958</b>   | <b>\$405,631</b>   |
| Depreciation                           | \$121,377          | \$121,560          | \$135,289          | \$127,121          | \$326,000          | \$383,703          |
| <b>Net Income with Depreciation</b>    | <b>\$418,661</b>   | <b>\$10,490</b>    | <b>(\$262,971)</b> | <b>\$965,204</b>   | <b>\$261,958</b>   | <b>\$21,928</b>    |

Source: City of Newman Audited Financial Statements.

**Table A-7**  
**City of Newman Water Rate Study**  
**Water Impact and Connection Fees**

| Land Use                    | Vested Map | New<br>Development          | Connection<br>Fee          | Water Meter<br>Fee |
|-----------------------------|------------|-----------------------------|----------------------------|--------------------|
|                             |            | 03/01/24 through 02/29/25   |                            |                    |
| <b>Residential Land Use</b> |            | <b>impact fees per unit</b> | <b>fees per connection</b> |                    |
| Low Density                 | \$1,666.78 | \$1,721.32                  | \$1,035.00                 | \$200.00           |
| Medium Density              | \$787.70   | \$840.35                    | \$1,035.00                 | \$200.00           |
| High Density                | N/A        | \$525.22                    | \$1,035.00                 | \$200.00           |

Source: City of Newman.

conn

**Table A-8**  
**City of Newman Water Rate Study**  
**Comparison of Historical Operating Expenses to Standard Indices**

| Operating Expenses                        | FY Ending          |                    |                    |                    |                    |                    | Change             |                   |
|-------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
|                                           | 2019               | 2020               | 2021               | 2022               | 2023               | 2024               | Total<br>2019-2024 | Average<br>Annual |
| Wages and Salaries                        | \$425,747          | \$455,458          | \$488,590          | \$551,681          | \$582,350          | \$626,753          | \$201,006          | 8.0%              |
| Benefits                                  | \$321,647          | \$544,330          | \$344,678          | \$313,473          | \$372,442          | \$365,447          | \$43,799           | 2.6%              |
| Contract Services                         | \$175,138          | \$145,836          | \$133,963          | \$196,909          | \$233,443          | \$213,465          | \$38,327           | 4.0%              |
| Insurance                                 | \$53,507           | \$57,615           | \$65,749           | \$89,266           | \$114,540          | \$147,269          | \$93,761           | 22.4%             |
| Supplies                                  | \$5,861            | \$12,468           | \$110,962          | \$96,780           | \$143,170          | \$115,722          | \$109,862          | 81.6%             |
| Utilities - Electric                      | \$183,062          | \$200,345          | \$207,263          | \$302,681          | \$371,753          | \$426,347          | \$243,285          | 18.4%             |
| Utilities - Gas, Telephone,               | \$9,839            | \$10,878           | \$6,134            | \$26,105           | \$9,450            | \$12,247           | \$2,408            | 4.5%              |
| Fuel                                      | \$11,715           | \$11,647           | \$11,775           | \$17,221           | \$16,781           | \$14,868           | \$3,152            | 4.9%              |
| Permits and Fees                          | \$15,848           | \$18,228           | \$19,099           | \$33,899           | \$26,080           | \$39,784           | \$23,936           | 20.2%             |
| Administrative Surcharge                  | \$89,485           | \$117,869          | \$120,371          | \$145,811          | \$130,178          | \$165,100          | \$75,615           | 13.0%             |
| <b>Total Expenses [1]</b>                 | <b>\$1,291,849</b> | <b>\$1,574,674</b> | <b>\$1,508,583</b> | <b>\$1,773,826</b> | <b>\$2,000,189</b> | <b>\$2,127,001</b> | <b>\$835,152</b>   | <b>10.5%</b>      |
| <b>Engineering News Record</b>            | <i>Jun 2019</i>    | <i>Jun 2020</i>    | <i>Jun 2021</i>    | <i>Jun 2022</i>    | <i>Jun 2023</i>    | <i>Jun 2024</i>    |                    |                   |
| ENR Construction Cost Index 20-City [2]   | 11,268             | 11,436             | 12,112             | 13,111             | 13,345             | 13,547             | 2,278              | 3.8%              |
| ENR Construction Cost Index San Francisco | 12,354             | 13,023             | 13,459             | 15,356             | 15,367             | 15,367             | 3,013              | 4.5%              |
| <b>Bureau of Labor Statistics</b>         |                    |                    |                    |                    |                    |                    |                    |                   |
| Consumer Price Index - West Region        | 271                | 274                | 288                | 313                | 324                | 334                | 63                 | 4.3%              |
| Consumer Price Index - San Francisco      | 295                | 300                | 309                | 331                | 340                | 351                | 56                 | 3.5%              |

Source: City of Newman, California Department of Finance, and the Engineering News Record.

[1] Total excludes equipment and miscellaneous which are highly variable year to year.

**Table A-9**  
**City of Newman Water Rate Study**  
**Estimated Capital Improvements Program in Current Dollars**

| Capital Improvement                         | Fiscal Year Ending                 |                  |                    |                  |                  |                  |
|---------------------------------------------|------------------------------------|------------------|--------------------|------------------|------------------|------------------|
|                                             | 2025                               | 2026             | 2027               | 2028             | 2029             | 2030             |
| <b>Facilities</b>                           | <i>All Figures in 2024 Dollars</i> |                  |                    |                  |                  |                  |
| Well Rehabilitation [1]                     |                                    |                  | \$150,000          |                  |                  |                  |
| Pipeline Improvements                       | \$150,000                          | \$150,000        | \$150,000          | \$150,000        | \$150,000        | \$150,000        |
| Vehicles & Specialized Equipment            |                                    |                  | \$75,000           | \$75,000         |                  | \$75,000         |
| Well 5 Chrome 6 MCLs Treatment Facilities   |                                    | \$500,000        | \$1,000,000        |                  |                  |                  |
| Sample Stations Replacement Program [2]     |                                    | \$12,000         | \$12,000           | \$12,000         | \$12,000         | \$12,000         |
| Meter Replacement Program [3]               | \$101,250                          | \$101,250        | \$101,250          | \$101,250        | \$101,250        | \$101,250        |
| Fire Hydrant Replacement Program [4]        |                                    | \$27,000         | \$27,000           | \$27,000         | \$27,000         | \$27,000         |
| <b>Subtotal Facilities</b>                  | <b>\$251,250</b>                   | <b>\$790,250</b> | <b>\$1,515,250</b> | <b>\$365,250</b> | <b>\$290,250</b> | <b>\$365,250</b> |
| <b>Studies</b>                              |                                    |                  |                    |                  |                  |                  |
| Water Master Plan and Water CIPs Update [5] |                                    | \$50,000         |                    |                  |                  |                  |
| Water Rate Study Update [5]                 | \$44,000                           |                  |                    |                  |                  | \$48,500         |
| Urban Water Management Plan 5 year update   |                                    |                  | \$10,000           |                  |                  |                  |
| <b>Subtotal Studies</b>                     | <b>\$44,000</b>                    | <b>\$50,000</b>  | <b>\$10,000</b>    | <b>\$0</b>       | <b>\$0</b>       | <b>\$48,500</b>  |
| <b>Total CIP Existing Customers</b>         | <b>\$295,250</b>                   | <b>\$840,250</b> | <b>\$1,525,250</b> | <b>\$365,250</b> | <b>\$290,250</b> | <b>\$413,750</b> |
| <b>Growth Projects</b>                      |                                    |                  |                    |                  |                  |                  |
| FF-01 (700-ft 8" main replace 4" main)      |                                    |                  |                    |                  |                  | \$313,600        |
| FF-02 (800-ft new 8" main)                  |                                    |                  |                    | \$358,400        |                  |                  |
| <b>Subtotal Growth Projects</b>             | <b>\$0</b>                         | <b>\$0</b>       | <b>\$0</b>         | <b>\$358,400</b> | <b>\$0</b>       | <b>\$313,600</b> |
| <b>TOTAL CIP</b>                            | <b>\$295,250</b>                   | <b>\$840,250</b> | <b>\$1,525,250</b> | <b>\$723,650</b> | <b>\$290,250</b> | <b>\$727,350</b> |

Source: City of Newman spring 2024.

[1] Work is pending results of Water Well Profiling.

[2] 3 stations/year @ \$4,000/station.

[3] 225 meters/year @ \$450/meter.

[4] 3 hydrants/year @ \$9,000/hydrant.

[5] Needed for Prop 1 Grants.

**Table A-10**  
**City of Newman Water Rate Study**  
**Depreciation of New Assets**

| New Asset                                 | Asset<br>Life | FY Ending       |                 |                  |                  |                  |                  |
|-------------------------------------------|---------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
|                                           |               | 2025            | 2026            | 2027             | 2028             | 2029             | 2030             |
|                                           | <i>years</i>  |                 |                 |                  |                  |                  |                  |
| Well Rehabilitation                       | 30            | \$0             | \$0             | \$5,408          | \$5,408          | \$5,408          | \$5,408          |
| Pipeline Improvements                     | 80            | \$1,875         | \$3,825         | \$5,853          | \$7,962          | \$10,156         | \$12,437         |
| Vehicles & Specialized Equipment          | 10            | \$0             | \$0             | \$8,112          | \$16,548         | \$16,548         | \$25,673         |
| Well 5 Chrome 6 MCLs Treatment Facilities | 30            | \$0             | \$17,333        | \$53,387         | \$53,387         | \$53,387         | \$53,387         |
| Sample Stations Replacement Program       | 15            | \$0             | \$832           | \$1,697          | \$2,597          | \$3,533          | \$4,506          |
| Meter Replacement Program                 | 12            | \$8,438         | \$17,213        | \$26,339         | \$35,830         | \$45,700         | \$55,966         |
| Fire Hydrant Replacement Program          | 20            | \$0             | \$1,404         | \$2,864          | \$4,383          | \$5,962          | \$7,605          |
| FF-01 (700-ft 8" main replace 4" main)    | 80            | \$0             | \$0             | \$0              | \$0              | \$0              | \$4,769          |
| FF-02 (800-ft new 8" main)                | 80            | \$0             | \$0             | \$0              | \$5,039          | \$5,039          | \$5,039          |
| <b>Total Assets</b>                       |               | <b>\$10,313</b> | <b>\$40,607</b> | <b>\$103,660</b> | <b>\$131,154</b> | <b>\$145,733</b> | <b>\$174,790</b> |

Source: City of Newman August 2024.

**Table A-11**  
**City of Newman Water Rate Study**  
**Depreciation of Existing Assets**

| Asset Type                                       | FY Ending        |                  |                  |                  |                  |                  |
|--------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                                  | 2025             | 2026             | 2027             | 2028             | 2029             | 2030             |
| <b>INFRASTRUCTURE</b>                            |                  |                  |                  |                  |                  |                  |
| WATER WELL #5                                    | \$5,000          | \$5,000          | \$5,000          | \$5,000          | \$5,000          | \$5,000          |
| WELL 1- GENERATOR/MOVE                           | \$73             | \$73             | \$73             | \$73             | \$73             | \$73             |
| WELL 7-TEST WORK                                 | \$211            | \$211            | \$211            | \$211            | \$211            | \$211            |
| WELL 1-AUTODIALER-TELEME                         | \$114            | \$114            | \$114            | \$114            | \$114            | \$114            |
| WATER WELL #6 VARIABLE FRQ DRIVE                 | \$434            | \$434            | \$434            | \$434            | \$434            | \$434            |
| FIRE HYDRANTS PROJECT                            | \$1,188          | \$1,188          | \$1,188          | \$1,188          | \$1,188          | \$1,188          |
| WATER WELL #1 (INCLUDES BLDG)                    | \$8,750          | \$8,750          | \$8,750          | \$8,750          | \$8,750          | \$8,750          |
| MUNICIPAL WELL                                   | \$22,862         | \$22,862         | \$22,862         | \$22,862         | \$22,862         | \$22,862         |
| WATER LINE - BARRINGTON AVE                      | \$1,227          | \$1,227          | \$1,227          | \$1,227          | \$1,227          | \$1,227          |
| WATER LINE - SHERMAN PKY                         | \$2,182          | \$2,182          | \$2,182          | \$2,182          | \$2,182          | \$2,182          |
| WATER LINE - SHERMAN PKY                         | \$2,585          | \$2,585          | \$2,585          | \$2,585          | \$2,585          | \$2,585          |
| WATER LINE - BANFF                               | \$1,355          | \$1,355          | \$1,355          | \$1,355          | \$1,355          | \$1,355          |
| WATER LINE - SHERMAN PKY                         | \$5,169          | \$5,169          | \$5,169          | \$5,169          | \$5,169          | \$5,169          |
| ELECTRIC GATE - CORP YARD                        | \$111            | \$111            | \$111            | \$111            | \$111            | \$111            |
| WELL #6R                                         | \$18,943         | \$18,943         | \$18,943         | \$18,943         | \$18,943         | \$18,943         |
| WELL #10 Site (Well, Tank, Booster, Etc.)        | \$260,853        | \$260,853        | \$260,853        | \$260,853        | \$260,853        | \$260,853        |
| <b>SUBTOTAL INFRASTRUCTURE</b>                   | <b>\$331,056</b> | <b>\$331,056</b> | <b>\$331,056</b> | <b>\$331,056</b> | <b>\$331,056</b> | <b>\$331,056</b> |
| <b>BUILDINGS</b>                                 |                  |                  |                  |                  |                  |                  |
| WATER OFFICE-IMPROVEMENTS                        | \$94             | \$1              | \$0              | \$0              | \$0              | \$0              |
| New Storage Unit                                 | \$211            | \$211            | \$211            | \$211            | \$211            | \$211            |
| 938 FRESNO ST - NEW CITY HALL                    | \$10,984         | \$10,984         | \$10,984         | \$10,984         | \$10,984         | \$10,984         |
| 938 FRESNO ST. - IMPROVEMENTS                    | \$2,586          | \$2,586          | \$2,586          | \$2,586          | \$2,586          | \$2,586          |
| Modular Building Public Works                    | \$841            | \$841            | \$841            | \$841            | \$841            | \$841            |
| Water Tower Fencing                              | \$551            | \$551            | \$551            | \$551            | \$551            | \$551            |
| <b>SUBTOTAL BUILDINGS</b>                        | <b>\$15,268</b>  | <b>\$15,174</b>  | <b>\$15,174</b>  | <b>\$15,174</b>  | <b>\$15,174</b>  | <b>\$15,174</b>  |
| <b>EQUIPMENT</b>                                 |                  |                  |                  |                  |                  |                  |
| Ford F250 - 1FTBF2A6XKEF56215                    | \$11,642         | \$0              | \$0              | \$0              | \$0              | \$0              |
| Klopping Hardie - PTO-60 - Sports Turf Renovator | \$47             | \$0              | \$0              | \$0              | \$0              | \$0              |
| Kubota Tractor L4701DT - KBUL4CDRKKJG66890       | \$499            | \$0              | \$0              | \$0              | \$0              | \$0              |
| New Server - MS02                                | \$1,645          | \$1,645          | \$411            | \$0              | \$0              | \$0              |
| New Server - AS01 - Springbrook                  | \$1,005          | \$1,005          | \$251            | \$0              | \$0              | \$0              |
| 2022 Ford Superduty F-250 - 1FDBF2A61NEF14399    | \$5,404          | \$5,404          | \$5,404          | \$1,351          | \$0              | \$0              |
| USJ 4018-600 Trailer Mounted Jetting Unit        | \$14,811         | \$14,811         | \$14,811         | \$1,234          | \$0              | \$0              |
| <b>SUBTOTAL EQUIPMENT</b>                        | <b>\$35,053</b>  | <b>\$22,865</b>  | <b>\$20,878</b>  | <b>\$2,585</b>   | <b>\$0</b>       | <b>\$0</b>       |
| <b>TOTAL WATER ASSETS</b>                        | <b>\$381,376</b> | <b>\$369,095</b> | <b>\$367,107</b> | <b>\$348,815</b> | <b>\$346,229</b> | <b>\$346,229</b> |

Source: City of Newman financial records 2024.

**Table A-12**  
**City of Newman Water Rate Study**  
**Functional Allocation of Plant In Service**

| Plant in Service                      | Customer | Capacity<br>(Readiness-<br>to-Serve) | Capacity<br>(Peaking) | Commodity<br>(Use) | Total Cost          | Customer        | Capacity<br>(Readiness-<br>to-Serve) | Capacity<br>(Peaking) | Commodity<br>(Use) |
|---------------------------------------|----------|--------------------------------------|-----------------------|--------------------|---------------------|-----------------|--------------------------------------|-----------------------|--------------------|
| Pumps                                 |          |                                      | 5%                    | 95%                | \$28,701            | \$0             | \$0                                  | \$1,435               | \$27,266           |
| Water Lines                           | 5%       | 70%                                  | 25%                   |                    | \$500,690           | \$25,035        | \$350,483                            | \$125,173             | \$0                |
| Wells                                 |          | 50%                                  | 25%                   | 25%                | \$12,660,893        | \$0             | \$6,330,447                          | \$3,165,223           | \$3,165,223        |
| Hydrants                              | 5%       | 70%                                  | 25%                   |                    | \$47,516            | \$2,376         | \$33,261                             | \$11,879              | \$0                |
| General Buildings [1]                 | 10%      | 90%                                  |                       |                    | \$132,938           | \$13,294        | \$119,644                            | \$0                   | \$0                |
| Equipment                             | 15%      | 15%                                  | 35%                   | 35%                | \$199,827           | \$29,974        | \$29,974                             | \$69,939              | \$69,939           |
| <b>Total Plant in Service</b>         |          |                                      |                       |                    | <b>\$13,570,565</b> | <b>\$70,678</b> | <b>\$6,863,809</b>                   | <b>\$3,373,649</b>    | <b>\$3,262,429</b> |
| <b>Percentage of Plant in Service</b> |          |                                      |                       |                    | <b>100%</b>         | <b>1%</b>       | <b>51%</b>                           | <b>25%</b>            | <b>24%</b>         |

Source: HEC.

plant

[1] Excludes City Hall.

**Table A-13**  
**City of Newman Water Rate Study**  
**Functional Allocation of Operating Costs**

| Expenditures                         | ACTUAL FY<br>2024  | Allocation Basis   | Fixed Costs      |                                      | Variable Costs        |                    | Unclassified       |
|--------------------------------------|--------------------|--------------------|------------------|--------------------------------------|-----------------------|--------------------|--------------------|
|                                      |                    |                    | Customer         | Capacity<br>(Readiness-<br>to-Serve) | Capacity<br>(Peaking) | Commodity<br>(Use) |                    |
| Personnel - Reg                      | \$616,968          | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Personnel - OT                       | \$9,786            | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Retirement - PERS                    | \$138,952          | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Social Security                      | \$46,376           | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Health Insurance                     | \$113,581          | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| SUI - Unemployment                   | \$911              | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Workers Comp                         | \$44,716           | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Uniform Allowance                    | \$4,005            | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Life Insurance                       | \$118              | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Dental/Vision                        | \$16,789           | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Contract Service                     | \$213,465          | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Accounting/Audit                     | \$11,225           | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Credit Card Charges                  | \$31,161           | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Equip Repair                         | \$29,257           | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| Medical Exam                         | \$99               | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Supplies                             | \$117,972          | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| Supplies - Computer                  | \$8,420            | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Supplies - Postage                   | \$718              | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Supplies - Meters                    | \$106,584          | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Utilities - PG&E                     | \$426,347          | Utilities          | 0%               | 0%                                   | 10%                   | 90%                | 0%                 |
| Utilities - Telephones               | \$11,528           | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Fuel Expense                         | \$14,868           | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| Natural Gas                          | \$719              | Utilities          | 0%               | 0%                                   | 10%                   | 90%                | 0%                 |
| Vehicle Maintenance                  | \$6,848            | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| Advertising                          | \$4,735            | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Liability Ins                        | \$84,581           | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| General Ins                          | \$62,688           | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Dues/Publications                    | \$4,411            | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Bad Debt                             | \$9,190            | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Administrative Surcharge             | \$165,100          | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Permits & Fees                       | \$39,784           | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Property Tax                         | \$639              | Customers          | 100%             | 0%                                   | 0%                    | 0%                 | 0%                 |
| Travel/Meetings                      | \$2,983            | Avg. of Classified | 0%               | 0%                                   | 0%                    | 0%                 | 100%               |
| Equipment                            | \$60,776           | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| Bldg Improvements                    | \$15,912           | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                | 0%                 |
| <b>TOTAL OPERATING COST</b>          | <b>\$2,422,207</b> |                    | <b>\$390,802</b> | <b>\$167,017</b>                     | <b>\$124,798</b>      | <b>\$463,744</b>   | <b>\$1,275,846</b> |
| Reallocate Unclassified              |                    |                    | \$434,945        | \$185,882                            | \$138,894             | \$516,125          |                    |
| <b>ALLOCATION OF OPERATING COSTS</b> |                    |                    | <b>\$825,747</b> | <b>\$352,899</b>                     | <b>\$263,692</b>      | <b>\$979,870</b>   |                    |
| Existing Debt Service                | \$236,300          | Plant In Service   | 1%               | 51%                                  | 25%                   | 24%                |                    |
| <b>Debt Service</b>                  |                    |                    | <b>\$1,231</b>   | <b>\$119,517</b>                     | <b>\$58,744</b>       | <b>\$56,808</b>    |                    |
| <b>TOTAL ALLOCATED COSTS</b>         | <b>\$2,658,507</b> |                    | <b>\$826,978</b> | <b>\$472,417</b>                     | <b>\$322,436</b>      | <b>\$1,036,677</b> |                    |
| Percentage of Allocation             |                    |                    | 31%              | 18%                                  | 12%                   | 39%                |                    |

Source: City of Newman financials, and HEC August 2024.

**Table A-14**  
**City of Newman Water Rate Study**  
**Number of Meters and Meter Equivalents**

| Meter Size              | Total | Customer Type |              |            |            |           |
|-------------------------|-------|---------------|--------------|------------|------------|-----------|
|                         |       | Single Family | Multi-Family | Commercial | Industrial | Landscape |
| Meters                  |       |               |              |            |            |           |
| 5/8-inch                | 3,093 | 3,003         | 18           | 67         | 4          | 1         |
| 3/4-inch                | 256   | 247           |              | 5          | 2          | 2         |
| 1-inch                  | 159   | 123           | 6            | 19         | 2          | 9         |
| 1.5-inch                | 7     |               | 1            | 3          | 1          | 2         |
| 2-inch                  | 47    |               | 11           | 19         | 6          | 11        |
| 3-inch                  | 3     |               | 1            | 1          |            | 1         |
| 4-inch                  | 8     |               |              | 4          | 2          | 2         |
| 6-inch                  | 3     |               | 2            |            |            | 1         |
| 8-inch                  | 0     |               |              |            |            |           |
| 10-inch                 | 0     |               |              |            |            |           |
| Total Meters            | 3,576 | 3,373         | 39           | 118        | 17         | 29        |
| Meter Equivalents       |       |               |              |            |            |           |
| 5/8-inch                | 3,093 | 3,003         | 18           | 67         | 4          | 1         |
| 3/4-inch                | 256   | 247           | 0            | 5          | 2          | 2         |
| 1-inch                  | 159   | 123           | 6            | 19         | 2          | 9         |
| 1.5-inch                | 14    | 0             | 2            | 6          | 2          | 4         |
| 2-inch                  | 150   | 0             | 35           | 61         | 19         | 35        |
| 3-inch                  | 21    | 0             | 7            | 7          | 0          | 7         |
| 4-inch                  | 96    | 0             | 0            | 48         | 24         | 24        |
| 6-inch                  | 75    | 0             | 50           | 0          | 0          | 25        |
| 8-inch                  | 0     | 0             | 0            | 0          | 0          | 0         |
| 10-inch                 | 0     | 0             | 0            | 0          | 0          | 0         |
| Total Meter Equivalents | 3,864 | 3,373         | 118          | 213        | 53         | 107       |

Source: City of Newman 2024 customer database.

**Table A-15**  
**City of Newman Water Rate Study**  
**Summary of Projected Billed Water Demand**

| Customer Category               | Base           | FY Ending           |                |                |                |                |                |
|---------------------------------|----------------|---------------------|----------------|----------------|----------------|----------------|----------------|
|                                 |                | 2025                | 2026           | 2027           | 2028           | 2029           | 2030           |
| <b>Residential</b>              |                | <b>Units in HCF</b> |                |                |                |                |                |
| Single Family                   | 517,808        | 516,149             | 520,687        | 523,756        | 529,763        | 535,796        | 540,346        |
| Multi Family                    | 27,695         | 27,666              | 27,909         | 28,126         | 28,395         | 28,666         | 28,909         |
| <b>Subtotal Residential</b>     | <b>545,503</b> | <b>543,814</b>      | <b>548,596</b> | <b>551,882</b> | <b>558,159</b> | <b>564,461</b> | <b>569,255</b> |
| <b>Non-Residential</b>          |                |                     |                |                |                |                |                |
| Commercial                      | 32,764         | 32,708              | 32,852         | 32,946         | 33,138         | 33,329         | 33,471         |
| Industrial                      | 94,092         | 94,072              | 94,485         | 94,879         | 95,307         | 95,734         | 96,140         |
| Landscape                       | 70,168         | 69,168              | 69,472         | 68,898         | 70,076         | 71,261         | 71,564         |
| <b>Subtotal Non-Residential</b> | <b>197,025</b> | <b>195,948</b>      | <b>196,809</b> | <b>196,722</b> | <b>198,521</b> | <b>200,324</b> | <b>201,175</b> |
| <b>Total Billed Water Use</b>   | <b>742,528</b> | <b>739,762</b>      | <b>745,405</b> | <b>748,605</b> | <b>756,680</b> | <b>764,785</b> | <b>770,431</b> |

Source: City of Newman and HEC.

**Table A-16**  
**City of Newman Water Rate Study**  
**Price Elasticity Assumptions**

| Customer Type                                 | Estimated Elasticity | FY Ending   |             |              |             |             |             |
|-----------------------------------------------|----------------------|-------------|-------------|--------------|-------------|-------------|-------------|
|                                               |                      | 2025        | 2026        | 2027         | 2028        | 2029        | 2030        |
| % Change in Price to Meet Revenue Requirement |                      | 10.0%       | 10.0%       | 15.0%        | 10.0%       | 5.0%        | 5.0%        |
| Assumption for Inflation                      |                      | 4.3%        | 4.3%        | 4.3%         | 4.3%        | 4.3%        | 4.3%        |
| <b>Price Increase Adjusted for Inflation</b>  |                      | <b>5.7%</b> | <b>5.7%</b> | <b>10.7%</b> | <b>5.7%</b> | <b>0.7%</b> | <b>0.7%</b> |
| Single Family                                 | -0.15                | -0.9%       | -0.9%       | -1.6%        | -0.9%       | -0.1%       | -0.1%       |
| Multi-Family                                  | -0.10                | -0.6%       | -0.6%       | -1.1%        | -0.6%       | -0.1%       | -0.1%       |
| Commercial                                    | -0.20                | -1.1%       | -1.1%       | -2.1%        | -1.1%       | -0.1%       | -0.1%       |
| Industrial                                    | -0.05                | -0.3%       | -0.3%       | -0.5%        | -0.3%       | 0.0%        | 0.0%        |
| Landscape                                     | -0.30                | -1.7%       | -1.7%       | -3.2%        | -1.7%       | -0.2%       | -0.2%       |

Source: HEC.

**Table A-17**  
**City of Newman Water Rate Study**  
**Projected Changes in Water Demand due to Price Changes**

| Customer Category                        | FY Ending      |                |                |                |                |                |
|------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                          | 2025           | 2026           | 2027           | 2028           | 2029           | 2030           |
| <i>Projected Growth [1]</i>              |                | 0.88%          | 0.87%          | 0.86%          | 0.86%          | 0.85%          |
| <b>Residential</b>                       |                |                |                |                |                |                |
| Single Family                            | 517,808        | 522,361        | 526,914        | 531,466        | 536,019        | 540,572        |
| Multi Family                             | 27,695         | 27,939         | 28,182         | 28,426         | 28,670         | 28,913         |
| <b>Subtotal Residential</b>              | <b>545,503</b> | <b>550,300</b> | <b>555,096</b> | <b>559,892</b> | <b>564,689</b> | <b>569,485</b> |
| <b>Non-Residential</b>                   |                |                |                |                |                |                |
| Commercial                               | 32,764         | 32,908         | 33,052         | 33,195         | 33,337         | 33,478         |
| Industrial                               | 94,092         | 94,506         | 94,918         | 95,328         | 95,736         | 96,143         |
| Landscape                                | 70,168         | 70,477         | 70,784         | 71,089         | 71,394         | 71,697         |
| <b>Subtotal Non-Residential</b>          | <b>197,025</b> | <b>197,891</b> | <b>198,753</b> | <b>199,612</b> | <b>200,467</b> | <b>201,318</b> |
| <b>Total Billable Water</b>              | <b>742,528</b> | <b>748,191</b> | <b>753,850</b> | <b>759,505</b> | <b>765,156</b> | <b>770,804</b> |
| <b>Change in Demand due to Price [2]</b> |                |                |                |                |                |                |
| <b>Residential</b>                       |                |                |                |                |                |                |
| Single Family                            | -1,659         | -1,674         | -3,157         | -1,703         | -224           | -226           |
| Multi Family                             | -30            | -30            | -57            | -31            | -4             | -4             |
| <b>Subtotal Residential</b>              | <b>-1,689</b>  | <b>-1,704</b>  | <b>-3,214</b>  | <b>-1,734</b>  | <b>-228</b>    | <b>-230</b>    |
| <b>Non-Residential</b>                   |                |                |                |                |                |                |
| Commercial                               | -56            | -57            | -106           | -57            | -7             | -7             |
| Industrial                               | -21            | -21            | -39            | -21            | -3             | -3             |
| Landscape                                | -1,000         | -1,004         | -1,886         | -1,013         | -133           | -133           |
| <b>Subtotal Non-Residential</b>          | <b>-1,077</b>  | <b>-1,082</b>  | <b>-2,031</b>  | <b>-1,091</b>  | <b>-143</b>    | <b>-143</b>    |
| <b>Total Billable Water</b>              | <b>-2,766</b>  | <b>-2,786</b>  | <b>-5,245</b>  | <b>-2,825</b>  | <b>-370</b>    | <b>-373</b>    |

Source: HEC.

[1] Growth for residential is approximately equal to 30 new residential units each year; growth for non-residential (supporting new residential growth) is estimated at 50% of the residential growth.

[2] Change applied to peak months water use (May-October) only.

% of Consumption

|               |     |            |     |
|---------------|-----|------------|-----|
| Single Family | 37% | Commercial | 15% |
| Multi Family  | 19% | Industrial | 8%  |
|               |     | Landscape  | 83% |

**Table A-18**  
**City of Newman Water Rate Study**  
**Calculation of Share of Maximum Day Water Use by Customer Category**

| Customer Type                        | Average           | Non-<br>Coincident<br>Maximum | MM/AM          | MD Peak          | Max Daily           | % of Avg.            | % of Peak            | % of Max.            |
|--------------------------------------|-------------------|-------------------------------|----------------|------------------|---------------------|----------------------|----------------------|----------------------|
|                                      | Month Use<br>(AM) | Month Use<br>(MM)             | Ratio          | Ratio            | Use                 | Month                | Month                | Day                  |
|                                      | <i>a</i>          | <i>b</i>                      | <i>c = b/a</i> | <i>d (below)</i> | <i>e = d*(b/31)</i> | <i>f = a/total a</i> | <i>g = b/total b</i> | <i>h = e/total e</i> |
| <b>Residential</b>                   | cu. ft.           | cu. ft.                       |                |                  | cu. ft.             |                      |                      |                      |
| Single Family                        | 45,796            | 65,227                        | 1.42           | 2.36             | 4,974               | 70%                  | 68%                  | 70%                  |
| Multi Family                         | 2,449             | 3,208                         | 1.31           | 2.17             | 225                 | 4%                   | 3%                   | 3%                   |
| <b>Non-Residential</b>               |                   |                               |                |                  |                     |                      |                      |                      |
| Commercial                           | 2,898             | 3,923                         | 1.35           | 1.91             | 241                 | 4%                   | 4%                   | 3%                   |
| Industrial                           | 8,322             | 10,155                        | 1.22           | 1.72             | 563                 | 13%                  | 11%                  | 8%                   |
| Landscape                            | 6,206             | 13,521                        | 2.18           | 2.63             | 1,147               | 9%                   | 14%                  | 16%                  |
| <b>Total</b>                         | <b>65,671</b>     | <b>96,034</b>                 |                |                  | <b>7,150</b>        |                      |                      |                      |
|                                      |                   |                               |                |                  |                     |                      |                      |                      |
| <b>Calculation of MD Peak Factor</b> |                   | <b>Single Unit</b>            | <b>Multi-F</b> | <b>Comm'l</b>    | <b>Industrial</b>   | <b>Landscape</b>     |                      |                      |
| MM/AD Factor                         |                   | 1.42                          | 1.31           | 1.35             | 1.22                | 2.18                 |                      |                      |
| System MD/MM Production Ratio [1]    |                   | 1.21                          | 1.21           | 1.21             | 1.21                | 1.21                 |                      |                      |
| Weekly Usage Adjustment              |                   | 1.38                          | 1.38           | 1.17             | 1.17                | 1.00                 |                      |                      |
| <b>Calculated MD Peak Factor</b>     |                   | <b>2.36</b>                   | <b>2.17</b>    | <b>1.91</b>      | <b>1.72</b>         | <b>2.63</b>          |                      |                      |

Source: City of Newman, AWWA M1 Manual, and HEC.

|                                         |             |             |             |                |
|-----------------------------------------|-------------|-------------|-------------|----------------|
| [1] Calculation:                        | <b>2021</b> | <b>2022</b> | <b>2023</b> |                |
| Maximum Day (MG)                        | 3.40        | 3.69        | 3.20        |                |
|                                         | 7/25/2021   | 7/1/2022    | 8/9/2023    |                |
| Maximum Month (MG)                      | 91.30       | 86.71       | 86.46       |                |
| Average MGD in the Max. Month           | 2.95        | 2.80        | 2.79        | <b>Average</b> |
| Ratio of Max. Day to Avg. in Max. Month | 1.15        | 1.32        | 1.15        | <b>1.21</b>    |

**Table A-19**  
**City of Newman Water Rate Study**  
**Meter Replacement Costs Estimate**

| Item                              | Water Meter Size |               |               |                |                |                |                |                 |                 |                 |
|-----------------------------------|------------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
|                                   | 5/8              | 3/4           | 1"            | 1 1/2"         | 2"             | 3"             | 4"             | 6"              | 8"              | 10"             |
| <b>Meter</b>                      |                  |               |               |                |                |                |                |                 |                 |                 |
| New Meter & Encoder               | \$315            | \$378         | \$425         | \$945          | \$2,205        | \$2,835        | \$4,410        | \$8,505         | \$9,450         | \$12,600        |
| Plate Strainers                   | \$0              | \$0           | \$0           | \$0            | \$0            | \$0            | \$0            | \$2,063         | \$3,273         | \$3,273         |
| <b>Subtotal Meter Costs</b>       | <b>\$315</b>     | <b>\$378</b>  | <b>\$425</b>  | <b>\$945</b>   | <b>\$2,205</b> | <b>\$2,835</b> | <b>\$4,410</b> | <b>\$10,568</b> | <b>\$12,723</b> | <b>\$15,873</b> |
| Installation Costs 20%            | \$63             | \$76          | \$85          | \$189          | \$441          | \$567          | \$882          | \$2,114         | \$2,545         | \$3,175         |
| Administration Costs 5%           | \$16             | \$19          | \$21          | \$47           | \$110          | \$142          | \$221          | \$528           | \$636           | \$794           |
| <b>Total Cost per Meter</b>       | <b>\$394</b>     | <b>\$473</b>  | <b>\$531</b>  | <b>\$1,181</b> | <b>\$2,756</b> | <b>\$3,544</b> | <b>\$5,513</b> | <b>\$13,210</b> | <b>\$15,904</b> | <b>\$19,842</b> |
| Replacement Interval (years)      | 12               | 12            | 12            | 12             | 12             | 12             | 12             | 12              | 12              | 12              |
| Cost per Meter per Year           | \$32.81          | \$39.38       | \$44.27       | \$98.44        | \$229.69       | \$295.31       | \$459.38       | \$1,100.87      | \$1,325.35      | \$1,653.47      |
| <b>Monthly Meter Cost FY 2025</b> | <b>\$2.73</b>    | <b>\$3.28</b> | <b>\$3.69</b> | <b>\$8.20</b>  | <b>\$19.14</b> | <b>\$24.61</b> | <b>\$38.28</b> | <b>\$91.74</b>  | <b>\$110.45</b> | <b>\$137.79</b> |

Source: Newman Public Works August 2024 and HEC.

**Table A-20**  
**City of Newman Water Rate Study**  
**Meter Replacement Fee Revenue Estimate**

| Item                                      | FY Ending        |                  |                  |                  |                  |                  |
|-------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                           | 2025             | 2026             | 2027             | 2028             | 2029             | 2030             |
| Total Water Meters Revenue                | \$113,978        | \$142,816        | \$147,847        | \$153,056        | \$158,448        | \$164,030        |
| Cumulative New Water Meters [1]           | 0                | 30               | 60               | 90               | 120              | 150              |
| Fee Per Meter per Month                   | \$3.69           | \$3.82           | \$3.95           | \$4.09           | \$4.24           | \$4.39           |
| <b>Annual New Water Meter Fee Revenue</b> | <b>\$0</b>       | <b>\$1,375</b>   | <b>\$2,847</b>   | <b>\$4,420</b>   | <b>\$6,102</b>   | <b>\$7,896</b>   |
| <b>Estimated Meter Fees Revenue</b>       | <b>\$113,900</b> | <b>\$144,100</b> | <b>\$150,600</b> | <b>\$157,400</b> | <b>\$164,500</b> | <b>\$171,900</b> |

Source: City of Newman and HEC.

[1] All new meters assumed to be 1" for purposes of projection.