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**HMC Water System**  
***Lakebay, WA***



Report #: 26621-7  
Beginning: October 1, 2021  
Expires: September 30, 2022

**RESERVE STUDY**  
**Update "No-Site-Visit"**

June 30, 2021

# Welcome to your Reserve Study!

**A** Reserve Study is a valuable tool to help you budget responsibly for your property. This report contains all the information you need to avoid surprise expenses, make informed decisions, save money, and protect property values.

**R**egardless of the property type, it's a fact of life that the very moment construction is completed, every major building component begins a predictable process of physical deterioration. The operative word is "predictable" because planning for the inevitable is what a Reserve Study by **Association Reserves** is all about!

In this Report, you will find three key results:

- **Component List**

Unique to each property, the Component List serves as the foundation of the Reserve Study and details the scope and schedule of all necessary repairs & replacements.

- **Reserve Fund Strength**

A calculation that measures how well the Reserve Fund has kept pace with the property's physical deterioration.

- **Reserve Funding Plan**

A multi-year funding plan based on current Reserve Fund strength that allows for component repairs and replacements to be completed in a timely manner, with an emphasis on fairness and avoiding "catch-up" funding.

## Questions?

Please contact your Project Manager directly.



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**HMC Water System**

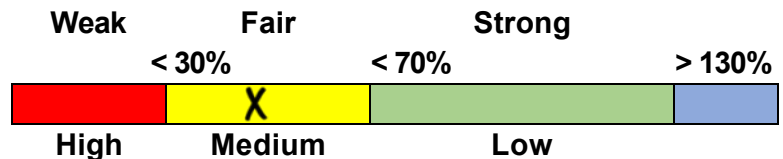
Lakebay, WA

Level of Service: **Update "No-Site-Visit"**Report #: **26621-7**

# of Units: 402

**October 1, 2021 through September 30, 2022****Findings & Recommendations****as of October 1, 2021**

|  |           |
|--|-----------|
| Starting Reserve Balance   | \$311,219 |
| Current Fully Funded Reserve Balance                               | \$640,701 |
| Percent Funded   | 48.6 %    |
| Average Reserve (Deficit) or Surplus Per Unit                      | (\$820)   |
| Recommended 2021/2022 100% Annual "Full Funding" Contributions     | \$99,600  |
| Recommended 2021/2022 70% Annual "Threshold Funding" Contributions | \$76,590  |
| 2021/2022 "Baseline Funding" to keep Reserves above \$0            | \$29,734  |
| Recommended 2021 Special Assessment                                | \$0       |
| Most Recent Budgeted Contribution Rate                             | \$35,000  |

**Reserve Fund Strength: 48.6%****Risk of Special Assessment:****Economic Assumptions:**Net Annual "After Tax" Interest Earnings Accruing to Reserves ..... **1.00 %**Annual Inflation Rate ..... **3.00 %**

• This is a Update "No-Site-Visit", meeting all requirements of the Revised Code of Washington (RCW). This study was prepared by, or under the supervision of a credentialed Reserve Specialist (RS 153).

• Your Reserve Fund is currently 48.6 % Funded. This means the association's special assessment and/or deferred maintenance risk would ordinarily be considered Medium. The objective of your multi-year Funding Plan is to fund your Reserves to a level where you will enjoy a low risk of Reserve cash flow problems.

• Based on this starting point and your anticipated future expenses, **we continue to recommend substantially increasing Reserve Contributions to within the 70% to 100% range as noted above. Going forward, collection of reserve monies to provide for fair distribution of expense burden to offset ongoing deterioration of reserve category projects and improve reserve fund status should be undertaken. In other words, current owners should contribute "their fair share" to maintenance reserves.** The reader should note that the FY 2021/2022 "Annual Deterioration" of reserve components is \$67,729.

• No assets appropriate for Reserve designation are known to be excluded. See appendix for important component information and the basis of our assumptions. "Baseline Funding" in this report is as defined within the RCW, "to maintain the reserve account balance above zero throughout the thirty-year study period, without special assessments." Funding plan contribution rates, and reserves deficit or (surplus) are presented as an aggregate total, assuming average percentage of ownership. The actual ownership allocation may vary - refer to your governing documents, and assessment computational tools to adjust for any variation.

| #                             | Component                           | Useful Life<br>(yrs) | Rem.<br>Useful Life<br>(yrs) | Current<br>Average<br>Cost |
|-------------------------------|-------------------------------------|----------------------|------------------------------|----------------------------|
| <b>Capacity / Storage</b>     |                                     |                      |                              |                            |
| 901                           | Well Pumps/Motors - Replace         | 30                   | 21                           | \$20,300                   |
| 904                           | Well Controls - Replace             | 30                   | 21                           | \$6,180                    |
| 910                           | Storage Tank, Concrete - Replace    | 80                   | 64                           | \$238,500                  |
| 912                           | Storage Tank, Interior - Clean      | 10                   | 0                            | \$4,635                    |
| 914                           | Storage Tank, Exterior - Clean      | 5                    | 0                            | \$3,605                    |
| <b>Boost</b>                  |                                     |                      |                              |                            |
| 920                           | Booster Pump #1, 5 HP - Replace     | 10                   | 0                            | \$5,000                    |
| 921                           | Booster Pump #2, 5 HP - Replace     | 10                   | 9                            | \$5,000                    |
| 922                           | Booster Pump, 15 HP - Replace       | 40                   | 31                           | \$24,750                   |
| 924                           | Booster Pumps VFD Control - Replace | 20                   | 11                           | \$18,000                   |
| <b>Distribution</b>           |                                     |                      |                              |                            |
| 940                           | Distribution Lines, 6"-8" - Replace | 70                   | 61                           | \$1,175,000                |
| 941                           | Distribution Lines, 2" - Replace    | 40                   | 31                           | \$75,950                   |
| 945                           | Service Connect/Lines - Replace     | 40                   | 31                           | \$288,500                  |
| 946                           | Service Meters - Replace            | 10                   | 1                            | \$144,500                  |
| 947                           | Service Meter Box/Setters - Replace | 20                   | 11                           | \$144,500                  |
| 950                           | Pressure Reducing Valves - Replace  | 20                   | 11                           | \$14,200                   |
| 954                           | Blow-Out/Isolation Valves - Replace | 30                   | 21                           | \$42,800                   |
| 958                           | Hydrants - Replace                  | 40                   | 31                           | \$177,500                  |
| <b>Buildings/Site</b>         |                                     |                      |                              |                            |
| 964                           | Building Roofs - Replace            | 40                   | 32                           | \$3,760                    |
| 967                           | Storage Shed, Vinyl - Replace       | 20                   | 12                           | \$3,045                    |
| 969                           | Building Electrical - Replace       | 30                   | 21                           | \$11,840                   |
| 970                           | Chain Link Fence - Replace          | 35                   | 27                           | \$19,450                   |
| <b>Systems/Equipment</b>      |                                     |                      |                              |                            |
| 980                           | Generator, Emergency - Replace      | 50                   | 3                            | \$56,300                   |
| 999                           | Meter Reader System - Replace       | 7                    | 6                            | \$20,600                   |
| <b>Financial/Professional</b> |                                     |                      |                              |                            |
| 1006                          | SWSMP - Update                      | 6                    | 0                            | \$4,500                    |

**24 Total Funded Components**

Note 1: Yellow highlighted line items are expected to require attention in this initial year.

## Introduction



A Reserve Study is the art and science of anticipating, and preparing for, an association's major common area repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a combination of research and well-defined computations, following consistent National Reserve Study Standard principles.

The foundation of this and every Reserve Study is your Reserve Component List (what you are reserving for). This is because the Reserve Component List defines the *scope and schedule* of all your anticipated upcoming Reserve projects. Based on that List and your starting balance, we calculate the association's Reserve Fund Strength (reported in terms of "Percent Funded"). Then we compute a Reserve Funding Plan to provide for the Reserve needs of the association. These form the three results of your Reserve Study.



Reserve contributions are not “for the future”. Reserve contributions are designed to offset the ongoing, daily deterioration of your Reserve assets. Done well, a stable, budgeted Reserve Funding Plan will collect sufficient funds from the owners who enjoyed the use of those assets, so the association is financially prepared for the irregular expenditures scattered through future years when those projects eventually require replacement.

## Methodology



For this [Update No-Site-Visit Reserve Study](#), we started with a review of your prior Reserve Study, then looked into recent Reserve expenditures, evaluated how expenditures are handled (ongoing maintenance vs Reserves), and researched any well-established association

precedents. We updated and adjusted your Reserve Component List on the basis of time elapsed since the last Reserve Study and interviews with association representatives.



## *Which Physical Assets are Funded by Reserves?*

There is a national-standard four-part test to determine which expenses should appear in your Reserve Component List. First, it must be a common area maintenance responsibility. Second, the component must have a limited life. Third, the remaining life must be predictable (or it by definition is a *surprise* which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost (often between .5% and 1% of an association's total budget). This limits Reserve



RESERVE COMPONENT "FOUR-PART TEST"

Components to major, predictable expenses. Within this framework, it is inappropriate to include *lifetime* components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

## *How do we establish Useful Life and Remaining Useful Life estimates?*

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client History (install dates & previous life cycle information)
- 4) Vendor Evaluation and Recommendation

## *How do we establish Current Repair/Replacement Cost Estimates?*

In this order...

- 1) Actual client cost history, or current proposals
- 2) Comparison to Association Reserves database of work done at similar associations
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

## How much Reserves are enough?

Reserve adequacy is not measured in cash terms. Reserve adequacy is found when the *amount* of current Reserve cash is compared to Reserve component deterioration (the *needs of the association*). Having *enough* means the association can execute its projects in a timely manner with existing Reserve funds. Not having *enough* typically creates deferred maintenance or special assessments.

Adequacy is measured in a two-step process:

- 1) Calculate the *value of deterioration* at the association (called Fully Funded Balance, or FFB).
- 2) Compare that to the Reserve Fund Balance, and express as a percentage.



Each year, the *value of deterioration* at the association changes. When there is more deterioration (as components approach the time they need to be replaced), there should be more cash to offset that deterioration and prepare for the expenditure. Conversely, the *value of deterioration* shrinks after projects are accomplished. The *value of deterioration* (the FFB) changes each year, and is a moving but predictable target.

There is a high risk of special assessments and deferred maintenance when the Percent Funded is *weak*, below 30%. Approximately 30% of all associations are in this high risk range. While the 100% point is Ideal (indicating Reserve cash is equal to the *value of deterioration*), a Reserve Fund in the 70% - 130% range is considered strong (low risk of special assessment).

Measuring your Reserves by Percent Funded tells how well prepared your association is for upcoming Reserve expenses. New buyers should be very aware of this important disclosure!



## How much should we contribute?



RESERVE FUNDING PRINCIPLES

According to National Reserve Study Standards, there are four Funding Principles to balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. Second, a stable contribution is desirable because it keeps these naturally irregular expenses from unsettling the budget.

Reserve contributions that are evenly distributed over current and future owners enable each owner to pay their fair share of the association's Reserve expenses over the years. And finally, we develop a plan that is fiscally responsible and safe for Boardmembers to recommend to their association. Remember, it is the Board's job to provide for the ongoing care of the common areas. Boardmembers invite liability exposure when Reserve contributions are inadequate to offset ongoing common area deterioration.

## What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the *value* of deterioration is called "Full Funding" (100% Funded). As each asset ages and becomes "used up," the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** Evidence shows that associations in the 70 - 130% range *enjoy a low risk of special assessments or deferred maintenance.*



FUNDING OBJECTIVES

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. Doing so allows the Reserve Fund to drop into the 0 - 30% range, where there is a high risk of special assessments & deferred maintenance. Since Baseline Funding still provides for the timely execution of all Reserve projects, and only the "margin of safety" is different, Baseline Funding contributions average only 10% - 15% less than Full Funding contributions. Threshold Funding is the title of all other Cash or Percent Funded objectives *between* Baseline Funding and Full Funding.

# Projected Expenses

While this Reserve Study looks forward 30 years, we have no expectation that all these expenses will all take place as anticipated. This Reserve Study needs to be updated annually because we expect the timing of these expenses to shift and the size of these expenses to change. We do feel more certain of the timing and cost of near-term expenses than expenses many years away.

The figure below summarizes the projected future expenses at your association as defined by your Reserve Component List. A summary of these expenses are shown in the 30-yr Summary Table, while details of the projects that make up these expenses are shown in the Cash Flow Detail Table.

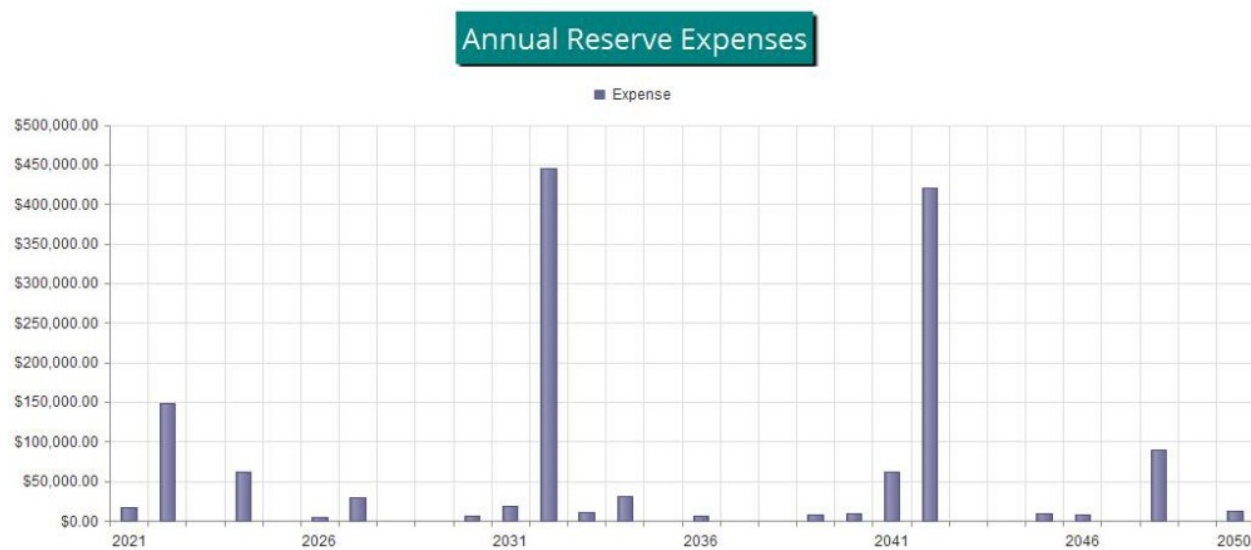


Figure 1

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$311,219 as-of the start of your Fiscal Year on 10/1/2021. As of that date, your Fully Funded Balance is computed to be \$640,701 (see Fully Funded Balance Table). This figure represents the deteriorated value of your common area components.

Recommended Funding Plan

Based on your current Percent Funded and your near-term and long-term Reserve needs, we are recommending budgeted contributions of \$99,600 this Fiscal Year. The overall 30-yr plan, in perspective, is shown below. This same information is shown numerically in both the 30-yr Summary Table and the Cash Flow Detail Table.

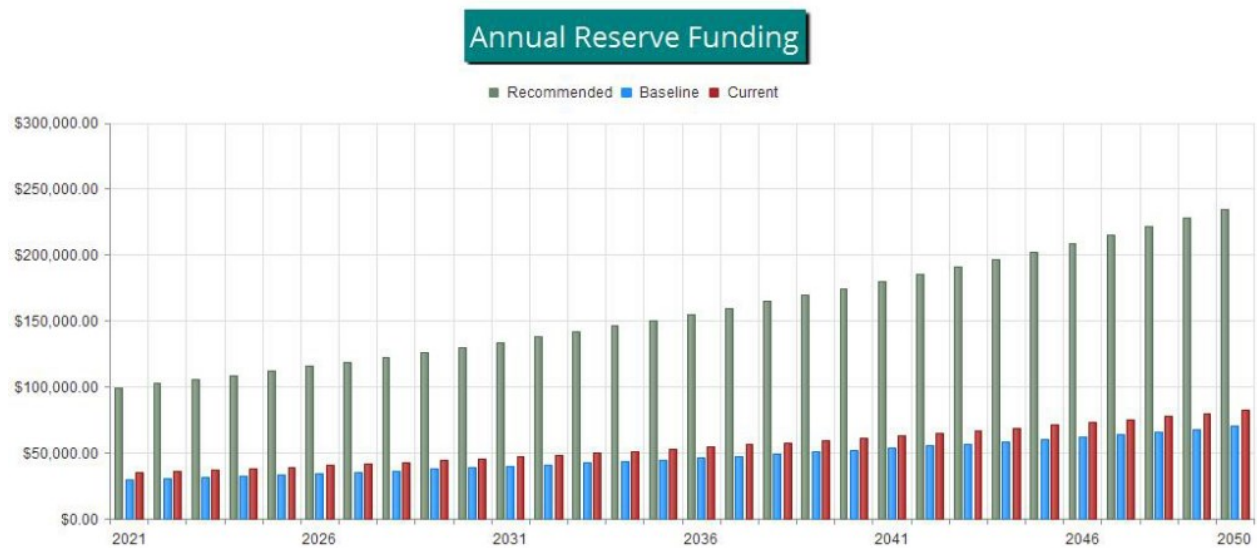


Figure 2

The following chart shows your Reserve balance under our recommended Full Funding Plan, an alternate Baseline Funding Plan, and at your current budgeted contribution rate (assumes future increases), compared to your always-changing Fully Funded Balance target.



Figure 3

This figure shows the same information plotted on a Percent Funded scale. It is clear here to see how your Reserve Fund strength approaches the 100% Funded level under our recommended multi-yr Funding Plan.

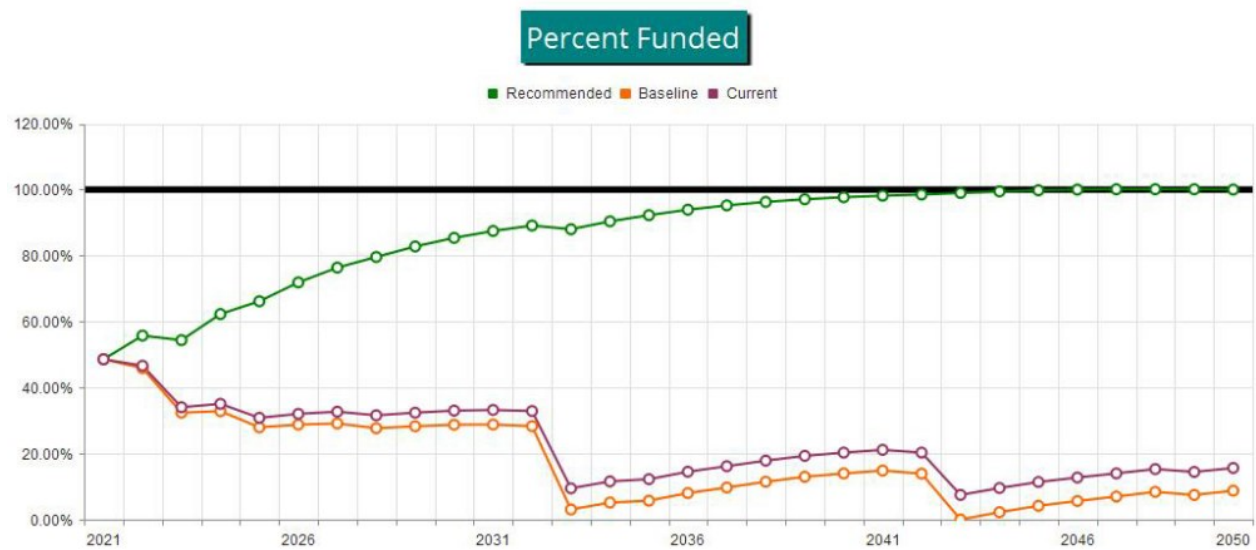


Figure 4



## Table Descriptions

Executive Summary is a summary of your Reserve Components

Reserve Component List Detail discloses key Component information, providing the foundation upon which the financial analysis is performed.

Fully Funded Balance shows the calculation of the Fully Funded Balance for each of your components, and their contributions to the property total. For each component, the Fully Funded Balance is the fraction of life used up multiplied by its estimated Current Replacement Cost.

Component Significance shows the relative significance of each component to Reserve funding needs of the property, helping you see which components have more (or less) influence than others on your total Reserve contribution rate. The deterioration cost/yr of each component is calculated by dividing the estimated Current Replacement Cost by its Useful Life, then that component's percentage of the total is displayed.

30-Yr Reserve Plan Summary provides a one-page 30-year summary of the cash flowing into and out of the Reserve Fund, with a display of the Fully Funded Balance, Percent Funded, and special assessment risk at the beginning of each year.

30-Year Income/Expense Detail shows the detailed income and expenses for each of the next 30 years. This table makes it possible to see which components are projected to require repair or replacement in a particular year, and the size of those individual expenses.

| #                      | Component                           | Quantity                 | Useful Life | Rem.<br>Useful Life | Current Cost Estimate |             |
|------------------------|-------------------------------------|--------------------------|-------------|---------------------|-----------------------|-------------|
|                        |                                     |                          |             |                     | Best Case             | Worst Case  |
| Capacity / Storage     |                                     |                          |             |                     |                       |             |
| 901                    | Well Pumps/Motors - Replace         | (2) 5 HP submersible, 4" | 30          | 21                  | \$18,100              | \$22,500    |
| 904                    | Well Controls - Replace             | (1) two-motor control    | 30          | 21                  | \$5,150               | \$7,210     |
| 910                    | Storage Tank, Concrete - Replace    | (1) 99,000 gallon        | 80          | 64                  | \$222,000             | \$255,000   |
| 912                    | Storage Tank, Interior - Clean      | (1) 99,000 gallon        | 10          | 0                   | \$3,500               | \$5,770     |
| 914                    | Storage Tank, Exterior - Clean      | (1) 99,000 gallon        | 5           | 0                   | \$3,090               | \$4,120     |
| Boost                  |                                     |                          |             |                     |                       |             |
| 920                    | Booster Pump #1, 5 HP - Replace     | (1) Nidec, 5 HP          | 10          | 0                   | \$4,000               | \$6,000     |
| 921                    | Booster Pump #2, 5 HP - Replace     | (1) unknown brand, 5 HP  | 10          | 9                   | \$4,000               | \$6,000     |
| 922                    | Booster Pump, 15 HP - Replace       | (1) Baldor, 15 HP        | 40          | 31                  | \$22,500              | \$27,000    |
| 924                    | Booster Pumps VFD Control - Replace | (1) three pump control   | 20          | 11                  | \$15,700              | \$20,300    |
| Distribution           |                                     |                          |             |                     |                       |             |
| 940                    | Distribution Lines, 6"-8" - Replace | Approx 26,650 LF         | 70          | 61                  | \$1,050,000           | \$1,300,000 |
| 941                    | Distribution Lines, 2" - Replace    | Approx 2,500 LF          | 40          | 31                  | \$70,300              | \$81,600    |
| 945                    | Service Connect/Lines - Replace     | ~(400) connections       | 40          | 31                  | \$247,000             | \$330,000   |
| 946                    | Service Meters - Replace            | ~(400) meters            | 10          | 1                   | \$124,000             | \$165,000   |
| 947                    | Service Meter Box/Setters - Replace | ~(400) boxes/setters     | 20          | 11                  | \$124,000             | \$165,000   |
| 950                    | Pressure Reducing Valves - Replace  | (60) metal               | 20          | 11                  | \$10,800              | \$17,600    |
| 954                    | Blow-Out/Isolation Valves - Replace | (38) total, assorted     | 30          | 21                  | \$38,500              | \$47,100    |
| 958                    | Hydrants - Replace                  | (41) hydrants            | 40          | 31                  | \$167,000             | \$188,000   |
| Buildings/Site         |                                     |                          |             |                     |                       |             |
| 964                    | Building Roofs - Replace            | Approx 500 square feet   | 40          | 32                  | \$3,190               | \$4,330     |
| 967                    | Storage Shed, Vinyl - Replace       | (1) 8'x8'                | 20          | 12                  | \$2,480               | \$3,610     |
| 969                    | Building Electrical - Replace       | Extensive systems        | 30          | 21                  | \$9,580               | \$14,100    |
| 970                    | Chain Link Fence - Replace          | Approx 720 linear feet   | 35          | 27                  | \$17,800              | \$21,100    |
| Systems/Equipment      |                                     |                          |             |                     |                       |             |
| 980                    | Generator, Emergency - Replace      | (1) Marathon, 60KW       | 50          | 3                   | \$45,000              | \$67,600    |
| 999                    | Meter Reader System - Replace       | (1) meter, software      | 7           | 6                   | \$18,600              | \$22,600    |
| Financial/Professional |                                     |                          |             |                     |                       |             |
| 1006                   | SWSMP - Update                      | Every 6 years            | 6           | 0                   | \$4,000               | \$5,000     |

24 Total Funded Components





| #                             | Component                           | Current Cost Estimate | X | Effective Age | / | Useful Life | = | Fully Funded Balance |
|-------------------------------|-------------------------------------|-----------------------|---|---------------|---|-------------|---|----------------------|
| <b>Capacity / Storage</b>     |                                     |                       |   |               |   |             |   |                      |
| 901                           | Well Pumps/Motors - Replace         | \$20,300              | X | 9             | / | 30          | = | \$6,090              |
| 904                           | Well Controls - Replace             | \$6,180               | X | 9             | / | 30          | = | \$1,854              |
| 910                           | Storage Tank, Concrete - Replace    | \$238,500             | X | 16            | / | 80          | = | \$47,700             |
| 912                           | Storage Tank, Interior - Clean      | \$4,635               | X | 10            | / | 10          | = | \$4,635              |
| 914                           | Storage Tank, Exterior - Clean      | \$3,605               | X | 5             | / | 5           | = | \$3,605              |
| <b>Boost</b>                  |                                     |                       |   |               |   |             |   |                      |
| 920                           | Booster Pump #1, 5 HP - Replace     | \$5,000               | X | 10            | / | 10          | = | \$5,000              |
| 921                           | Booster Pump #2, 5 HP - Replace     | \$5,000               | X | 1             | / | 10          | = | \$500                |
| 922                           | Booster Pump, 15 HP - Replace       | \$24,750              | X | 9             | / | 40          | = | \$5,569              |
| 924                           | Booster Pumps VFD Control - Replace | \$18,000              | X | 9             | / | 20          | = | \$8,100              |
| <b>Distribution</b>           |                                     |                       |   |               |   |             |   |                      |
| 940                           | Distribution Lines, 6"-8" - Replace | \$1,175,000           | X | 9             | / | 70          | = | \$151,071            |
| 941                           | Distribution Lines, 2" - Replace    | \$75,950              | X | 9             | / | 40          | = | \$17,089             |
| 945                           | Service Connect/Lines - Replace     | \$288,500             | X | 9             | / | 40          | = | \$64,913             |
| 946                           | Service Meters - Replace            | \$144,500             | X | 9             | / | 10          | = | \$130,050            |
| 947                           | Service Meter Box/Setters - Replace | \$144,500             | X | 9             | / | 20          | = | \$65,025             |
| 950                           | Pressure Reducing Valves - Replace  | \$14,200              | X | 9             | / | 20          | = | \$6,390              |
| 954                           | Blow-Out/Isolation Valves - Replace | \$42,800              | X | 9             | / | 30          | = | \$12,840             |
| 958                           | Hydrants - Replace                  | \$177,500             | X | 9             | / | 40          | = | \$39,938             |
| <b>Buildings/Site</b>         |                                     |                       |   |               |   |             |   |                      |
| 964                           | Building Roofs - Replace            | \$3,760               | X | 8             | / | 40          | = | \$752                |
| 967                           | Storage Shed, Vinyl - Replace       | \$3,045               | X | 8             | / | 20          | = | \$1,218              |
| 969                           | Building Electrical - Replace       | \$11,840              | X | 9             | / | 30          | = | \$3,552              |
| 970                           | Chain Link Fence - Replace          | \$19,450              | X | 8             | / | 35          | = | \$4,446              |
| <b>Systems/Equipment</b>      |                                     |                       |   |               |   |             |   |                      |
| 980                           | Generator, Emergency - Replace      | \$56,300              | X | 47            | / | 50          | = | \$52,922             |
| 999                           | Meter Reader System - Replace       | \$20,600              | X | 1             | / | 7           | = | \$2,943              |
| <b>Financial/Professional</b> |                                     |                       |   |               |   |             |   |                      |
| 1006                          | SWSMP - Update                      | \$4,500               | X | 6             | / | 6           | = | \$4,500              |
|                               |                                     |                       |   |               |   |             |   | \$640,701            |



## Component Significance

Report # 26621-7  
No-Site-Visit

| #                             | Component                           | Useful Life (yrs) | Current Cost Estimate | Deterioration Cost/Yr | Deterioration Significance |
|-------------------------------|-------------------------------------|-------------------|-----------------------|-----------------------|----------------------------|
| <b>Capacity / Storage</b>     |                                     |                   |                       |                       |                            |
| 901                           | Well Pumps/Motors - Replace         | 30                | \$20,300              | \$677                 | 1.00 %                     |
| 904                           | Well Controls - Replace             | 30                | \$6,180               | \$206                 | 0.30 %                     |
| 910                           | Storage Tank, Concrete - Replace    | 80                | \$238,500             | \$2,981               | 4.40 %                     |
| 912                           | Storage Tank, Interior - Clean      | 10                | \$4,635               | \$464                 | 0.68 %                     |
| 914                           | Storage Tank, Exterior - Clean      | 5                 | \$3,605               | \$721                 | 1.06 %                     |
| <b>Boost</b>                  |                                     |                   |                       |                       |                            |
| 920                           | Booster Pump #1, 5 HP - Replace     | 10                | \$5,000               | \$500                 | 0.74 %                     |
| 921                           | Booster Pump #2, 5 HP - Replace     | 10                | \$5,000               | \$500                 | 0.74 %                     |
| 922                           | Booster Pump, 15 HP - Replace       | 40                | \$24,750              | \$619                 | 0.91 %                     |
| 924                           | Booster Pumps VFD Control - Replace | 20                | \$18,000              | \$900                 | 1.33 %                     |
| <b>Distribution</b>           |                                     |                   |                       |                       |                            |
| 940                           | Distribution Lines, 6"-8" - Replace | 70                | \$1,175,000           | \$16,786              | 24.78 %                    |
| 941                           | Distribution Lines, 2" - Replace    | 40                | \$75,950              | \$1,899               | 2.80 %                     |
| 945                           | Service Connect/Lines - Replace     | 40                | \$288,500             | \$7,213               | 10.65 %                    |
| 946                           | Service Meters - Replace            | 10                | \$144,500             | \$14,450              | 21.34 %                    |
| 947                           | Service Meter Box/Setters - Replace | 20                | \$144,500             | \$7,225               | 10.67 %                    |
| 950                           | Pressure Reducing Valves - Replace  | 20                | \$14,200              | \$710                 | 1.05 %                     |
| 954                           | Blow-Out/Isolation Valves - Replace | 30                | \$42,800              | \$1,427               | 2.11 %                     |
| 958                           | Hydrants - Replace                  | 40                | \$177,500             | \$4,438               | 6.55 %                     |
| <b>Buildings/Site</b>         |                                     |                   |                       |                       |                            |
| 964                           | Building Roofs - Replace            | 40                | \$3,760               | \$94                  | 0.14 %                     |
| 967                           | Storage Shed, Vinyl - Replace       | 20                | \$3,045               | \$152                 | 0.22 %                     |
| 969                           | Building Electrical - Replace       | 30                | \$11,840              | \$395                 | 0.58 %                     |
| 970                           | Chain Link Fence - Replace          | 35                | \$19,450              | \$556                 | 0.82 %                     |
| <b>Systems/Equipment</b>      |                                     |                   |                       |                       |                            |
| 980                           | Generator, Emergency - Replace      | 50                | \$56,300              | \$1,126               | 1.66 %                     |
| 999                           | Meter Reader System - Replace       | 7                 | \$20,600              | \$2,943               | 4.35 %                     |
| <b>Financial/Professional</b> |                                     |                   |                       |                       |                            |
| 1006                          | SWSMP - Update                      | 6                 | \$4,500               | \$750                 | 1.11 %                     |
| 24                            | Total Funded Components             |                   |                       | \$67,729              | 100.00 %                   |



# 30-Year Reserve Plan Summary

Report # 26621-7  
No-Site-Visit

Fiscal Year Start: 2021

Interest:

1.00 %

Inflation:

3.00 %

Reserve Fund Strength: as-of Fiscal Year Start Date

Projected Reserve Balance Changes

| Year | Starting<br>Reserve<br>Balance | Fully<br>Funded<br>Balance | Percent<br>Funded |  | Special<br>Assmt<br>Risk | % Increase<br>In Annual |                      | Loan or<br>Special<br>Assmts | Interest<br>Income | Reserve<br>Expenses |
|------|--------------------------------|----------------------------|-------------------|--|--------------------------|-------------------------|----------------------|------------------------------|--------------------|---------------------|
|      |                                |                            |                   |  |                          | Reserve<br>Contribs.    | Reserve<br>Contribs. |                              |                    |                     |
| 2021 | \$311,219                      | \$640,701                  | 48.6 %            |  | Medium                   | 184.57 %                | \$99,600             | \$0                          | \$3,538            | \$17,740            |
| 2022 | \$396,617                      | \$711,410                  | 55.8 %            |  | Medium                   | 3.00 %                  | \$102,588            | \$0                          | \$3,752            | \$148,835           |
| 2023 | \$354,122                      | \$651,306                  | 54.4 %            |  | Medium                   | 3.00 %                  | \$105,666            | \$0                          | \$4,088            | \$0                 |
| 2024 | \$463,876                      | \$744,854                  | 62.3 %            |  | Medium                   | 3.00 %                  | \$108,836            | \$0                          | \$4,898            | \$61,521            |
| 2025 | \$516,088                      | \$780,063                  | 66.2 %            |  | Medium                   | 3.00 %                  | \$112,101            | \$0                          | \$5,748            | \$0                 |
| 2026 | \$633,937                      | \$881,981                  | 71.9 %            |  | Low                      | 3.00 %                  | \$115,464            | \$0                          | \$6,927            | \$4,179             |
| 2027 | \$752,149                      | \$985,007                  | 76.4 %            |  | Low                      | 3.00 %                  | \$118,928            | \$0                          | \$8,003            | \$29,971            |
| 2028 | \$849,109                      | \$1,066,986                | 79.6 %            |  | Low                      | 3.00 %                  | \$122,495            | \$0                          | \$9,145            | \$0                 |
| 2029 | \$980,749                      | \$1,184,792                | 82.8 %            |  | Low                      | 3.00 %                  | \$126,170            | \$0                          | \$10,486           | \$0                 |
| 2030 | \$1,117,406                    | \$1,308,707                | 85.4 %            |  | Low                      | 3.00 %                  | \$129,955            | \$0                          | \$11,845           | \$6,524             |
| 2031 | \$1,252,683                    | \$1,432,270                | 87.5 %            |  | Low                      | 3.00 %                  | \$133,854            | \$0                          | \$13,167           | \$17,793            |
| 2032 | \$1,381,911                    | \$1,550,663                | 89.1 %            |  | Low                      | 3.00 %                  | \$137,870            | \$0                          | \$12,342           | \$444,616           |
| 2033 | \$1,087,507                    | \$1,235,794                | 88.0 %            |  | Low                      | 3.00 %                  | \$142,006            | \$0                          | \$11,584           | \$10,757            |
| 2034 | \$1,230,339                    | \$1,361,250                | 90.4 %            |  | Low                      | 3.00 %                  | \$146,266            | \$0                          | \$12,943           | \$30,252            |
| 2035 | \$1,359,296                    | \$1,473,374                | 92.3 %            |  | Low                      | 3.00 %                  | \$150,654            | \$0                          | \$14,412           | \$0                 |
| 2036 | \$1,524,362                    | \$1,623,094                | 93.9 %            |  | Low                      | 3.00 %                  | \$155,174            | \$0                          | \$16,065           | \$5,616             |
| 2037 | \$1,689,984                    | \$1,774,687                | 95.2 %            |  | Low                      | 3.00 %                  | \$159,829            | \$0                          | \$17,780           | \$0                 |
| 2038 | \$1,867,593                    | \$1,939,873                | 96.3 %            |  | Low                      | 3.00 %                  | \$164,624            | \$0                          | \$19,589           | \$0                 |
| 2039 | \$2,051,806                    | \$2,113,373                | 97.1 %            |  | Low                      | 3.00 %                  | \$169,562            | \$0                          | \$21,426           | \$7,661             |
| 2040 | \$2,235,133                    | \$2,287,646                | 97.7 %            |  | Low                      | 3.00 %                  | \$174,649            | \$0                          | \$23,287           | \$8,768             |
| 2041 | \$2,424,302                    | \$2,469,570                | 98.2 %            |  | Low                      | 3.00 %                  | \$179,889            | \$0                          | \$24,951           | \$61,119            |
| 2042 | \$2,568,023                    | \$2,606,701                | 98.5 %            |  | Low                      | 3.00 %                  | \$185,285            | \$0                          | \$24,621           | \$419,720           |
| 2043 | \$2,358,209                    | \$2,382,366                | 99.0 %            |  | Low                      | 3.00 %                  | \$190,844            | \$0                          | \$24,649           | \$0                 |
| 2044 | \$2,573,702                    | \$2,587,505                | 99.5 %            |  | Low                      | 3.00 %                  | \$196,569            | \$0                          | \$26,843           | \$0                 |
| 2045 | \$2,797,114                    | \$2,802,809                | 99.8 %            |  | Low                      | 3.00 %                  | \$202,466            | \$0                          | \$29,071           | \$9,148             |
| 2046 | \$3,019,503                    | \$3,019,280                | 100.0 %           |  | Low                      | 3.00 %                  | \$208,540            | \$0                          | \$31,343           | \$7,548             |
| 2047 | \$3,251,839                    | \$3,248,148                | 100.1 %           |  | Low                      | 3.00 %                  | \$214,796            | \$0                          | \$33,747           | \$0                 |
| 2048 | \$3,500,382                    | \$3,496,037                | 100.1 %           |  | Low                      | 3.00 %                  | \$221,240            | \$0                          | \$35,829           | \$88,963            |
| 2049 | \$3,668,489                    | \$3,664,245                | 100.1 %           |  | Low                      | 3.00 %                  | \$227,878            | \$0                          | \$37,998           | \$0                 |
| 2050 | \$3,934,365                    | \$3,933,780                | 100.0 %           |  | Low                      | 3.00 %                  | \$234,714            | \$0                          | \$40,644           | \$11,783            |



# 30-Year Reserve Plan Summary (Alternate Funding Plan)

Report # 26621-7  
No-Site-Visit

Fiscal Year Start: 2021

Interest:

1.00 %

Inflation:

3.00 %

Reserve Fund Strength: as-of Fiscal Year Start Date

Projected Reserve Balance Changes

|      | % Increase |             |         |  |         |           |           |         |          |           |
|------|------------|-------------|---------|--|---------|-----------|-----------|---------|----------|-----------|
|      | Starting   | Fully       |         |  | Special | In Annual |           | Loan or |          |           |
| Year | Reserve    | Funded      | Percent |  | Assmt   | Reserve   | Reserve   | Special | Interest | Reserve   |
|      | Balance    | Balance     | Funded  |  | Risk    | Contribs. | Contribs. | Assmts  | Income   | Expenses  |
| 2021 | \$311,219  | \$640,701   | 48.6 %  |  | Medium  | -15.05 %  | \$29,734  | \$0     | \$3,187  | \$17,740  |
| 2022 | \$326,400  | \$711,410   | 45.9 %  |  | Medium  | 3.00 %    | \$30,626  | \$0     | \$2,685  | \$148,835 |
| 2023 | \$210,876  | \$651,306   | 32.4 %  |  | Medium  | 3.00 %    | \$31,545  | \$0     | \$2,277  | \$0       |
| 2024 | \$244,698  | \$744,854   | 32.9 %  |  | Medium  | 3.00 %    | \$32,491  | \$0     | \$2,312  | \$61,521  |
| 2025 | \$217,981  | \$780,063   | 27.9 %  |  | High    | 3.00 %    | \$33,466  | \$0     | \$2,358  | \$0       |
| 2026 | \$253,805  | \$881,981   | 28.8 %  |  | High    | 3.00 %    | \$34,470  | \$0     | \$2,702  | \$4,179   |
| 2027 | \$286,797  | \$985,007   | 29.1 %  |  | High    | 3.00 %    | \$35,504  | \$0     | \$2,909  | \$29,971  |
| 2028 | \$295,239  | \$1,066,986 | 27.7 %  |  | High    | 3.00 %    | \$36,569  | \$0     | \$3,150  | \$0       |
| 2029 | \$334,958  | \$1,184,792 | 28.3 %  |  | High    | 3.00 %    | \$37,666  | \$0     | \$3,554  | \$0       |
| 2030 | \$376,178  | \$1,308,707 | 28.7 %  |  | High    | 3.00 %    | \$38,796  | \$0     | \$3,941  | \$6,524   |
| 2031 | \$412,392  | \$1,432,270 | 28.8 %  |  | High    | 3.00 %    | \$39,960  | \$0     | \$4,254  | \$17,793  |
| 2032 | \$438,812  | \$1,550,663 | 28.3 %  |  | High    | 3.00 %    | \$41,159  | \$0     | \$2,382  | \$444,616 |
| 2033 | \$37,737   | \$1,235,794 | 3.1 %   |  | High    | 3.00 %    | \$42,394  | \$0     | \$538    | \$10,757  |
| 2034 | \$69,911   | \$1,361,250 | 5.1 %   |  | High    | 3.00 %    | \$43,665  | \$0     | \$770    | \$30,252  |
| 2035 | \$84,095   | \$1,473,374 | 5.7 %   |  | High    | 3.00 %    | \$44,975  | \$0     | \$1,071  | \$0       |
| 2036 | \$130,141  | \$1,623,094 | 8.0 %   |  | High    | 3.00 %    | \$46,325  | \$0     | \$1,512  | \$5,616   |
| 2037 | \$172,361  | \$1,774,687 | 9.7 %   |  | High    | 3.00 %    | \$47,714  | \$0     | \$1,971  | \$0       |
| 2038 | \$222,046  | \$1,939,873 | 11.4 %  |  | High    | 3.00 %    | \$49,146  | \$0     | \$2,478  | \$0       |
| 2039 | \$273,670  | \$2,113,373 | 12.9 %  |  | High    | 3.00 %    | \$50,620  | \$0     | \$2,965  | \$7,661   |
| 2040 | \$319,594  | \$2,287,646 | 14.0 %  |  | High    | 3.00 %    | \$52,139  | \$0     | \$3,428  | \$8,768   |
| 2041 | \$366,393  | \$2,469,570 | 14.8 %  |  | High    | 3.00 %    | \$53,703  | \$0     | \$3,644  | \$61,119  |
| 2042 | \$362,621  | \$2,606,701 | 13.9 %  |  | High    | 3.00 %    | \$55,314  | \$0     | \$1,812  | \$419,720 |
| 2043 | \$28       | \$2,382,366 | 0.0 %   |  | High    | 3.00 %    | \$56,973  | \$0     | \$286    | \$0       |
| 2044 | \$57,288   | \$2,587,505 | 2.2 %   |  | High    | 3.00 %    | \$58,683  | \$0     | \$870    | \$0       |
| 2045 | \$116,841  | \$2,802,809 | 4.2 %   |  | High    | 3.00 %    | \$60,443  | \$0     | \$1,431  | \$9,148   |
| 2046 | \$169,568  | \$3,019,280 | 5.6 %   |  | High    | 3.00 %    | \$62,256  | \$0     | \$1,978  | \$7,548   |
| 2047 | \$226,254  | \$3,248,148 | 7.0 %   |  | High    | 3.00 %    | \$64,124  | \$0     | \$2,595  | \$0       |
| 2048 | \$292,973  | \$3,496,037 | 8.4 %   |  | High    | 3.00 %    | \$66,048  | \$0     | \$2,828  | \$88,963  |
| 2049 | \$272,887  | \$3,664,245 | 7.4 %   |  | High    | 3.00 %    | \$68,029  | \$0     | \$3,083  | \$0       |
| 2050 | \$343,999  | \$3,933,780 | 8.7 %   |  | High    | 3.00 %    | \$70,070  | \$0     | \$3,749  | \$11,783  |

# 30-Year Income/Expense Detail

Report # 26621-7  
No-Site-Visit

| Fiscal Year                             | 2021      | 2022      | 2023      | 2024      | 2025      |
|---|-----------|-----------|-----------|-----------|-----------|
| Starting Reserve Balance                | \$311,219 | \$396,617 | \$354,122 | \$463,876 | \$516,088 |
| Annual Reserve Contribution             | \$99,600  | \$102,588 | \$105,666 | \$108,836 | \$112,101 |
| Recommended Special Assessments         | \$0       | \$0       | \$0       | \$0       | \$0       |
| Interest Earnings                       | \$3,538   | \$3,752   | \$4,088   | \$4,898   | \$5,748   |
| Total Income                            | \$414,357 | \$502,957 | \$463,876 | \$577,609 | \$633,937 |
| # Component                             |           |           |           |           |           |
| <b>Capacity / Storage</b>               |           |           |           |           |           |
| 901 Well Pumps/Motors - Replace         | \$0       | \$0       | \$0       | \$0       | \$0       |
| 904 Well Controls - Replace             | \$0       | \$0       | \$0       | \$0       | \$0       |
| 910 Storage Tank, Concrete - Replace    | \$0       | \$0       | \$0       | \$0       | \$0       |
| 912 Storage Tank, Interior - Clean      | \$4,635   | \$0       | \$0       | \$0       | \$0       |
| 914 Storage Tank, Exterior - Clean      | \$3,605   | \$0       | \$0       | \$0       | \$0       |
| <b>Boost</b>                            |           |           |           |           |           |
| 920 Booster Pump #1, 5 HP - Replace     | \$5,000   | \$0       | \$0       | \$0       | \$0       |
| 921 Booster Pump #2, 5 HP - Replace     | \$0       | \$0       | \$0       | \$0       | \$0       |
| 922 Booster Pump, 15 HP - Replace       | \$0       | \$0       | \$0       | \$0       | \$0       |
| 924 Booster Pumps VFD Control - Replace | \$0       | \$0       | \$0       | \$0       | \$0       |
| <b>Distribution</b>                     |           |           |           |           |           |
| 940 Distribution Lines, 6"-8" - Replace | \$0       | \$0       | \$0       | \$0       | \$0       |
| 941 Distribution Lines, 2" - Replace    | \$0       | \$0       | \$0       | \$0       | \$0       |
| 945 Service Connect/Lines - Replace     | \$0       | \$0       | \$0       | \$0       | \$0       |
| 946 Service Meters - Replace            | \$0       | \$148,835 | \$0       | \$0       | \$0       |
| 947 Service Meter Box/Setters - Replace | \$0       | \$0       | \$0       | \$0       | \$0       |
| 950 Pressure Reducing Valves - Replace  | \$0       | \$0       | \$0       | \$0       | \$0       |
| 954 Blow-Out/Isolation Valves - Replace | \$0       | \$0       | \$0       | \$0       | \$0       |
| 958 Hydrants - Replace                  | \$0       | \$0       | \$0       | \$0       | \$0       |
| <b>Buildings/Site</b>                   |           |           |           |           |           |
| 964 Building Roofs - Replace            | \$0       | \$0       | \$0       | \$0       | \$0       |
| 967 Storage Shed, Vinyl - Replace       | \$0       | \$0       | \$0       | \$0       | \$0       |
| 969 Building Electrical - Replace       | \$0       | \$0       | \$0       | \$0       | \$0       |
| 970 Chain Link Fence - Replace          | \$0       | \$0       | \$0       | \$0       | \$0       |
| <b>Systems/Equipment</b>                |           |           |           |           |           |
| 980 Generator, Emergency - Replace      | \$0       | \$0       | \$0       | \$61,521  | \$0       |
| 999 Meter Reader System - Replace       | \$0       | \$0       | \$0       | \$0       | \$0       |
| <b>Financial/Professional</b>           |           |           |           |           |           |
| 1006 SWSMP - Update                     | \$4,500   | \$0       | \$0       | \$0       | \$0       |
| Total Expenses                          | \$17,740  | \$148,835 | \$0       | \$61,521  | \$0       |
| Ending Reserve Balance                  | \$396,617 | \$354,122 | \$463,876 | \$516,088 | \$633,937 |

| <b>Fiscal Year</b>                      | <b>2026</b> | <b>2027</b> | <b>2028</b> | <b>2029</b> | <b>2030</b> |
|---|-------------|-------------|-------------|-------------|-------------|
| Starting Reserve Balance                | \$633,937   | \$752,149   | \$849,109   | \$980,749   | \$1,117,406 |
| Annual Reserve Contribution             | \$115,464   | \$118,928   | \$122,495   | \$126,170   | \$129,955   |
| Recommended Special Assessments         | \$0         | \$0         | \$0         | \$0         | \$0         |
| Interest Earnings                       | \$6,927     | \$8,003     | \$9,145     | \$10,486    | \$11,845    |
| Total Income                            | \$756,328   | \$879,079   | \$980,749   | \$1,117,406 | \$1,259,207 |
| # Component                             |             |             |             |             |             |
| <b>Capacity / Storage</b>               |             |             |             |             |             |
| 901 Well Pumps/Motors - Replace         | \$0         | \$0         | \$0         | \$0         | \$0         |
| 904 Well Controls - Replace             | \$0         | \$0         | \$0         | \$0         | \$0         |
| 910 Storage Tank, Concrete - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 912 Storage Tank, Interior - Clean      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 914 Storage Tank, Exterior - Clean      | \$4,179     | \$0         | \$0         | \$0         | \$0         |
| <b>Boost</b>                            |             |             |             |             |             |
| 920 Booster Pump #1, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 921 Booster Pump #2, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$6,524     |
| 922 Booster Pump, 15 HP - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 924 Booster Pumps VFD Control - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Distribution</b>                     |             |             |             |             |             |
| 940 Distribution Lines, 6"-8" - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 941 Distribution Lines, 2" - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 945 Service Connect/Lines - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 946 Service Meters - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 947 Service Meter Box/Setters - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 950 Pressure Reducing Valves - Replace  | \$0         | \$0         | \$0         | \$0         | \$0         |
| 954 Blow-Out/Isolation Valves - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 958 Hydrants - Replace                  | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Buildings/Site</b>                   |             |             |             |             |             |
| 964 Building Roofs - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 967 Storage Shed, Vinyl - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 969 Building Electrical - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 970 Chain Link Fence - Replace          | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Systems/Equipment</b>                |             |             |             |             |             |
| 980 Generator, Emergency - Replace      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 999 Meter Reader System - Replace       | \$0         | \$24,597    | \$0         | \$0         | \$0         |
| <b>Financial/Professional</b>           |             |             |             |             |             |
| 1006 SWSMP - Update                     | \$0         | \$5,373     | \$0         | \$0         | \$0         |
| Total Expenses                          | \$4,179     | \$29,971    | \$0         | \$0         | \$6,524     |
| Ending Reserve Balance                  | \$752,149   | \$849,109   | \$980,749   | \$1,117,406 | \$1,252,683 |



| <b>Fiscal Year</b>                      | <b>2031</b> | <b>2032</b> | <b>2033</b> | <b>2034</b> | <b>2035</b> |
|---|-------------|-------------|-------------|-------------|-------------|
| Starting Reserve Balance                | \$1,252,683 | \$1,381,911 | \$1,087,507 | \$1,230,339 | \$1,359,296 |
| Annual Reserve Contribution             | \$133,854   | \$137,870   | \$142,006   | \$146,266   | \$150,654   |
| Recommended Special Assessments         | \$0         | \$0         | \$0         | \$0         | \$0         |
| Interest Earnings                       | \$13,167    | \$12,342    | \$11,584    | \$12,943    | \$14,412    |
| Total Income                            | \$1,399,704 | \$1,532,123 | \$1,241,097 | \$1,389,548 | \$1,524,362 |
| # Component                             |             |             |             |             |             |
| <b>Capacity / Storage</b>               |             |             |             |             |             |
| 901 Well Pumps/Motors - Replace         | \$0         | \$0         | \$0         | \$0         | \$0         |
| 904 Well Controls - Replace             | \$0         | \$0         | \$0         | \$0         | \$0         |
| 910 Storage Tank, Concrete - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 912 Storage Tank, Interior - Clean      | \$6,229     | \$0         | \$0         | \$0         | \$0         |
| 914 Storage Tank, Exterior - Clean      | \$4,845     | \$0         | \$0         | \$0         | \$0         |
| <b>Boost</b>                            |             |             |             |             |             |
| 920 Booster Pump #1, 5 HP - Replace     | \$6,720     | \$0         | \$0         | \$0         | \$0         |
| 921 Booster Pump #2, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 922 Booster Pump, 15 HP - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 924 Booster Pumps VFD Control - Replace | \$0         | \$24,916    | \$0         | \$0         | \$0         |
| <b>Distribution</b>                     |             |             |             |             |             |
| 940 Distribution Lines, 6"-8" - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 941 Distribution Lines, 2" - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 945 Service Connect/Lines - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 946 Service Meters - Replace            | \$0         | \$200,022   | \$0         | \$0         | \$0         |
| 947 Service Meter Box/Setters - Replace | \$0         | \$200,022   | \$0         | \$0         | \$0         |
| 950 Pressure Reducing Valves - Replace  | \$0         | \$19,656    | \$0         | \$0         | \$0         |
| 954 Blow-Out/Isolation Valves - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 958 Hydrants - Replace                  | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Buildings/Site</b>                   |             |             |             |             |             |
| 964 Building Roofs - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 967 Storage Shed, Vinyl - Replace       | \$0         | \$0         | \$4,341     | \$0         | \$0         |
| 969 Building Electrical - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 970 Chain Link Fence - Replace          | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Systems/Equipment</b>                |             |             |             |             |             |
| 980 Generator, Emergency - Replace      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 999 Meter Reader System - Replace       | \$0         | \$0         | \$0         | \$30,252    | \$0         |
| <b>Financial/Professional</b>           |             |             |             |             |             |
| 1006 SWSMP - Update                     | \$0         | \$0         | \$6,416     | \$0         | \$0         |
| Total Expenses                          | \$17,793    | \$444,616   | \$10,757    | \$30,252    | \$0         |
| Ending Reserve Balance                  | \$1,381,911 | \$1,087,507 | \$1,230,339 | \$1,359,296 | \$1,524,362 |

| <b>Fiscal Year</b>                      | <b>2036</b> | <b>2037</b> | <b>2038</b> | <b>2039</b> | <b>2040</b> |
|---|-------------|-------------|-------------|-------------|-------------|
| Starting Reserve Balance                | \$1,524,362 | \$1,689,984 | \$1,867,593 | \$2,051,806 | \$2,235,133 |
| Annual Reserve Contribution             | \$155,174   | \$159,829   | \$164,624   | \$169,562   | \$174,649   |
| Recommended Special Assessments         | \$0         | \$0         | \$0         | \$0         | \$0         |
| Interest Earnings                       | \$16,065    | \$17,780    | \$19,589    | \$21,426    | \$23,287    |
| Total Income                            | \$1,695,601 | \$1,867,593 | \$2,051,806 | \$2,242,794 | \$2,433,069 |
| # Component                             |             |             |             |             |             |
| <b>Capacity / Storage</b>               |             |             |             |             |             |
| 901 Well Pumps/Motors - Replace         | \$0         | \$0         | \$0         | \$0         | \$0         |
| 904 Well Controls - Replace             | \$0         | \$0         | \$0         | \$0         | \$0         |
| 910 Storage Tank, Concrete - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 912 Storage Tank, Interior - Clean      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 914 Storage Tank, Exterior - Clean      | \$5,616     | \$0         | \$0         | \$0         | \$0         |
| <b>Boost</b>                            |             |             |             |             |             |
| 920 Booster Pump #1, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 921 Booster Pump #2, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$8,768     |
| 922 Booster Pump, 15 HP - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 924 Booster Pumps VFD Control - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Distribution</b>                     |             |             |             |             |             |
| 940 Distribution Lines, 6"-8" - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 941 Distribution Lines, 2" - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 945 Service Connect/Lines - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 946 Service Meters - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 947 Service Meter Box/Setters - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 950 Pressure Reducing Valves - Replace  | \$0         | \$0         | \$0         | \$0         | \$0         |
| 954 Blow-Out/Isolation Valves - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 958 Hydrants - Replace                  | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Buildings/Site</b>                   |             |             |             |             |             |
| 964 Building Roofs - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 967 Storage Shed, Vinyl - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 969 Building Electrical - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 970 Chain Link Fence - Replace          | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Systems/Equipment</b>                |             |             |             |             |             |
| 980 Generator, Emergency - Replace      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 999 Meter Reader System - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Financial/Professional</b>           |             |             |             |             |             |
| 1006 SWSMP - Update                     | \$0         | \$0         | \$0         | \$7,661     | \$0         |
| Total Expenses                          | \$5,616     | \$0         | \$0         | \$7,661     | \$8,768     |
| Ending Reserve Balance                  | \$1,689,984 | \$1,867,593 | \$2,051,806 | \$2,235,133 | \$2,424,302 |

| <b>Fiscal Year</b>                      | <b>2041</b> | <b>2042</b> | <b>2043</b> | <b>2044</b> | <b>2045</b> |
|---|-------------|-------------|-------------|-------------|-------------|
| Starting Reserve Balance                | \$2,424,302 | \$2,568,023 | \$2,358,209 | \$2,573,702 | \$2,797,114 |
| Annual Reserve Contribution             | \$179,889   | \$185,285   | \$190,844   | \$196,569   | \$202,466   |
| Recommended Special Assessments         | \$0         | \$0         | \$0         | \$0         | \$0         |
| Interest Earnings                       | \$24,951    | \$24,621    | \$24,649    | \$26,843    | \$29,071    |
| Total Income                            | \$2,629,141 | \$2,777,929 | \$2,573,702 | \$2,797,114 | \$3,028,651 |
| # Component                             |             |             |             |             |             |
| <b>Capacity / Storage</b>               |             |             |             |             |             |
| 901 Well Pumps/Motors - Replace         | \$0         | \$37,764    | \$0         | \$0         | \$0         |
| 904 Well Controls - Replace             | \$0         | \$11,497    | \$0         | \$0         | \$0         |
| 910 Storage Tank, Concrete - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 912 Storage Tank, Interior - Clean      | \$8,371     | \$0         | \$0         | \$0         | \$0         |
| 914 Storage Tank, Exterior - Clean      | \$6,511     | \$0         | \$0         | \$0         | \$0         |
| <b>Boost</b>                            |             |             |             |             |             |
| 920 Booster Pump #1, 5 HP - Replace     | \$9,031     | \$0         | \$0         | \$0         | \$0         |
| 921 Booster Pump #2, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 922 Booster Pump, 15 HP - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 924 Booster Pumps VFD Control - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Distribution</b>                     |             |             |             |             |             |
| 940 Distribution Lines, 6"-8" - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 941 Distribution Lines, 2" - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 945 Service Connect/Lines - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 946 Service Meters - Replace            | \$0         | \$268,813   | \$0         | \$0         | \$0         |
| 947 Service Meter Box/Setters - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 950 Pressure Reducing Valves - Replace  | \$0         | \$0         | \$0         | \$0         | \$0         |
| 954 Blow-Out/Isolation Valves - Replace | \$0         | \$79,621    | \$0         | \$0         | \$0         |
| 958 Hydrants - Replace                  | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Buildings/Site</b>                   |             |             |             |             |             |
| 964 Building Roofs - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 967 Storage Shed, Vinyl - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 969 Building Electrical - Replace       | \$0         | \$22,026    | \$0         | \$0         | \$0         |
| 970 Chain Link Fence - Replace          | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Systems/Equipment</b>                |             |             |             |             |             |
| 980 Generator, Emergency - Replace      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 999 Meter Reader System - Replace       | \$37,206    | \$0         | \$0         | \$0         | \$0         |
| <b>Financial/Professional</b>           |             |             |             |             |             |
| 1006 SWSMP - Update                     | \$0         | \$0         | \$0         | \$0         | \$9,148     |
| Total Expenses                          | \$61,119    | \$419,720   | \$0         | \$0         | \$9,148     |
| Ending Reserve Balance                  | \$2,568,023 | \$2,358,209 | \$2,573,702 | \$2,797,114 | \$3,019,503 |

| <b>Fiscal Year</b>                      | <b>2046</b> | <b>2047</b> | <b>2048</b> | <b>2049</b> | <b>2050</b> |
|---|-------------|-------------|-------------|-------------|-------------|
| Starting Reserve Balance                | \$3,019,503 | \$3,251,839 | \$3,500,382 | \$3,668,489 | \$3,934,365 |
| Annual Reserve Contribution             | \$208,540   | \$214,796   | \$221,240   | \$227,878   | \$234,714   |
| Recommended Special Assessments         | \$0         | \$0         | \$0         | \$0         | \$0         |
| Interest Earnings                       | \$31,343    | \$33,747    | \$35,829    | \$37,998    | \$40,644    |
| Total Income                            | \$3,259,387 | \$3,500,382 | \$3,757,452 | \$3,934,365 | \$4,209,723 |
| # Component                             |             |             |             |             |             |
| <b>Capacity / Storage</b>               |             |             |             |             |             |
| 901 Well Pumps/Motors - Replace         | \$0         | \$0         | \$0         | \$0         | \$0         |
| 904 Well Controls - Replace             | \$0         | \$0         | \$0         | \$0         | \$0         |
| 910 Storage Tank, Concrete - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 912 Storage Tank, Interior - Clean      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 914 Storage Tank, Exterior - Clean      | \$7,548     | \$0         | \$0         | \$0         | \$0         |
| <b>Boost</b>                            |             |             |             |             |             |
| 920 Booster Pump #1, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 921 Booster Pump #2, 5 HP - Replace     | \$0         | \$0         | \$0         | \$0         | \$11,783    |
| 922 Booster Pump, 15 HP - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 924 Booster Pumps VFD Control - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Distribution</b>                     |             |             |             |             |             |
| 940 Distribution Lines, 6"-8" - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 941 Distribution Lines, 2" - Replace    | \$0         | \$0         | \$0         | \$0         | \$0         |
| 945 Service Connect/Lines - Replace     | \$0         | \$0         | \$0         | \$0         | \$0         |
| 946 Service Meters - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 947 Service Meter Box/Setters - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 950 Pressure Reducing Valves - Replace  | \$0         | \$0         | \$0         | \$0         | \$0         |
| 954 Blow-Out/Isolation Valves - Replace | \$0         | \$0         | \$0         | \$0         | \$0         |
| 958 Hydrants - Replace                  | \$0         | \$0         | \$0         | \$0         | \$0         |
| <b>Buildings/Site</b>                   |             |             |             |             |             |
| 964 Building Roofs - Replace            | \$0         | \$0         | \$0         | \$0         | \$0         |
| 967 Storage Shed, Vinyl - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 969 Building Electrical - Replace       | \$0         | \$0         | \$0         | \$0         | \$0         |
| 970 Chain Link Fence - Replace          | \$0         | \$0         | \$43,204    | \$0         | \$0         |
| <b>Systems/Equipment</b>                |             |             |             |             |             |
| 980 Generator, Emergency - Replace      | \$0         | \$0         | \$0         | \$0         | \$0         |
| 999 Meter Reader System - Replace       | \$0         | \$0         | \$45,759    | \$0         | \$0         |
| <b>Financial/Professional</b>           |             |             |             |             |             |
| 1006 SWSMP - Update                     | \$0         | \$0         | \$0         | \$0         | \$0         |
| Total Expenses                          | \$7,548     | \$0         | \$88,963    | \$0         | \$11,783    |
| Ending Reserve Balance                  | \$3,251,839 | \$3,500,382 | \$3,668,489 | \$3,934,365 | \$4,197,940 |



## Accuracy, Limitations, and Disclosures

"The reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require you to pay on demand as a special assessment your share of common expenses for the cost of major maintenance, repair or replacement of a reserve component."

Association Reserves and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. James Talaga, company President, is a credentialed Reserve Specialist (#066). All work done by Association Reserves WA, LLC is performed under his responsible charge and is performed in accordance with National Reserve Study Standards (NRSS). There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the client's situation.

Per NRSS, information provided by official representative(s) of the client, vendors, and suppliers regarding financial details, component physical details and/or quantities, or historical issues/conditions will be deemed reliable, and is not intended to be used for the purpose of any type of audit, quality/forensic analysis, or background checks of historical records. As such, information provided to us has not been audited or independently verified.

Estimates for interest and inflation have been included, because including such estimates are more accurate than ignoring them completely. When we are hired to prepare Update reports, the client is considered to have deemed those previously developed component quantities as accurate and reliable, whether established by our firm or other individuals/firms (unless specifically mentioned in our Site Inspection Notes). During inspections our company standard is to establish measurements within 5% accuracy, and our scope includes visual inspection of accessible areas and components and does not include any destructive or other testing. Our work is done only for budget purposes. Uses or expectations outside our expertise and scope of work include, but are not limited to: project audit, quality inspection, and the identification of construction defects, hazardous materials, or dangerous conditions. Identifying hidden issues such as but not limited to, plumbing or electrical problems are also outside our scope of work. Our estimates assume proper original installation & construction, adherence to recommended preventive maintenance, a stable economic environment, and do not consider frequency or severity of natural disasters. Our opinions of component Useful Life, Remaining Useful Life, and current or future cost estimates are not a warranty or guarantee of actual costs or timing.

Because the physical and financial status of the property, legislation, the economy, weather, owner expectations, and usage are all in a continual state of change over which we have no control, we do not expect that the events projected in this document will all occur exactly as planned. This Reserve Study is by nature a "one-year" document in need of being updated annually so that more accurate estimates can be incorporated. It is only because a long-term perspective improves the accuracy of near-term planning that this Report projects expenses into the future. We fully expect a number of adjustments will be necessary through the interim years to the cost and timing of expense projections and the funding necessary to prepare for those estimated expenses.

In this engagement our compensation is not contingent upon our conclusions, and our liability in any matter involving this Reserve Study is limited to our fee for services rendered.



## Terms and Definitions

|                                    |  |
|------------------------------------|--|
| <b>BTU</b>                         | British Thermal Unit (a standard unit of energy)   |
| <b>DIA</b>                         | Diameter   |
| <b>GSF</b>                         | Gross Square Feet (area). Equivalent to Square Feet  |
| <b>GSY</b>                         | Gross Square Yards (area). Equivalent to Square Yards  |
| <b>HP</b>                          | Horsepower   |
| <b>LF</b>                          | Linear Feet (length)   |
| <b>Effective Age</b>               | The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.  |
| <b>Fully Funded Balance (FFB)</b>  | The value of the deterioration of the Reserve Components. This is the fraction of life "used up" of each component multiplied by its estimated Current Replacement. While calculated for each component, it is summed together for an association total.   |
| <b>Inflation</b>                   | Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on the "30-yr Income/Expense Detail" table.   |
| <b>Interest</b>                    | Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary. |
| <b>Percent Funded</b>              | The ratio, at a particular point in time (the first day of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.  |
| <b>Remaining Useful Life (RUL)</b> | The estimated time, in years, that a common area component can be expected to continue to serve its intended function.   |
| <b>Useful Life (UL)</b>            | The estimated time, in years, that a common area component can be expected to serve its intended function.   |





## Component Details

The primary purpose of the Component Details appendix is to provide the reader with the basis of our funding assumptions resulting from our research and analysis. The information presented here represents a wide range of components that were observed and measured against National Reserve Study Standards to determine if they meet the criteria for reserve funding.

- 1) Common area repair & replacement responsibility
- 2) Component must have a limited useful life
- 3) Life limit must be predictable
- 4) Above a minimum threshold cost (board's discretion – typically ½ to 1% of Annual operating expenses).

Not all your components may have been found appropriate for reserve funding. In our judgment, the components meeting the above four criteria are shown with the Useful Life (how often the project is expected to occur), Remaining Useful Life (when the next instance of the expense will be) and representative market cost range termed “Best Cost” and “Worst Cost”. There are many factors that can result in a wide variety of potential costs, and we have attempted to present the cost range in which your actual expense will occur.

Where no Useful Life, Remaining Useful Life, or pricing exists, the component was deemed inappropriate for Reserve Funding.

## Capacity / Storage

### Comp #: 900 Wells - Replace

Quantity: (2) active

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Useful life not predictable or extended

History: Well #1 was reportedly drilled in either 1955 or 1959 and Well #2 in perhaps 1982 or 1983

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

### Comp #: 901 Well Pumps/Motors - Replace

Quantity: (2) 5 HP submersible, 4"

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Both active 5 HP submersible, 4" well pumps/motors were replaced last in September 2012.

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 30 years

Remaining Life: 21 years

Best Case: \$ 18,100

Worst Case: \$22,500

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

### Comp #: 904 Well Controls - Replace

Quantity: (1) two-motor control

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 30 years

Remaining Life: 21 years

Best Case: \$ 5,150

Worst Case: \$7,210

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

### Comp #: 905 Source Flow Meters - Replace

Quantity: (2) Badger, assorted

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Cost projected to be too small

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

### Comp #: 907 Filter/Treatment Systems - Add

Quantity: None at present

Location: None at present

Funded?: No. No apparent needs or plans to add such systems

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

### Comp #: 910 Storage Tank, Concrete - Replace

Quantity: (1) 99,000 gallon

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Reportedly installed in 2005

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 80 years

Remaining Life: 64 years

Best Case: \$ 222,000

Worst Case: \$255,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

**Comp #: 911 Storage Tank, Interior - Seal****Quantity: None at present**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Presently no type of interior tank liner exists

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

---

**Comp #: 912 Storage Tank, Interior - Clean****Quantity: (1) 99,000 gallon**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Your previous plans for interior cleaning project to occur in FY 2018/2019, then deferred to FY 2019/2020, FY 2020/2021 and now once again deferred to occur in FY 2021/2022

Comments: Your previous plans for interior cleaning project to occur in FY 2018/2019 continue to be deferred, now to FY 2021/2022

No change in RUL, no current bids, annual inflation adjustment 3%

Useful Life: 10 years

Remaining Life: 0 years

Best Case: \$ 3,500

Worst Case: \$5,770

Lower allowance

Higher allowance

Cost Source: Previous Estimate Provided by Client, adjusted for inflation

---

**Comp #: 914 Storage Tank, Exterior - Clean****Quantity: (1) 99,000 gallon**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Your previous plans for interior cleaning project to occur in FY 2018/2019, then deferred to FY 2019/2020, FY 2020/2021 and now once again deferred to occur in FY 2021/2022

Comments: Your previous plans for interior cleaning project to occur in FY 2018/2019 continue to be deferred, now to FY 2021/2022

No change in RUL, no current bids, annual inflation adjustment 3%

Useful Life: 5 years

Remaining Life: 0 years

Best Case: \$ 3,090

Worst Case: \$4,120

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project  
Cost History

---

**Comp #: 916 Storage Tank, Old - Repurpose****Quantity: (1) project**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Annual cost best handled as operating expense

History: Re-purpose now deferred

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

## Boost

---

**Comp #: 920 Booster Pump #1, 5 HP - Replace****Quantity: (1) Nidec, 5 HP**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Existing domestic supply booster pump #1 installed in 2012

Comments: Adjusted/reduced useful life and remaining useful life based upon 2020/2021 other #2 pump/motor replacement needs; cost reduced from 2020/2021 reserve study from extrapolated client 2020/2021 project cost.

Useful Life: 10 years

Remaining Life: 0 years

Best Case: \$ 4,000

Worst Case: \$6,000

Lower allowance

Higher allowance

Cost Source: Extrapolated 2020/2021 Client Cost

History

---

**Comp #: 921 Booster Pump #2, 5 HP - Replace****Quantity: (1) unknown brand, 5 HP**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Existing domestic supply booster pump #2 replaced in 2020/2021, previously installed in 2012

Comments: Adjusted/reduced useful life and reset remaining useful life based upon 2020/2021 this #2 pump/motor 2020/2021 replacement; cost reduced from 2020/2021 reserve study from extrapolated client 2020/2021 project cost.

Useful Life: 10 years

Remaining Life: 9 years

Best Case: \$ 4,000

Worst Case: \$6,000

Lower allowance

Higher allowance

Cost Source: Extrapolated 2020/2021 Client Cost

History

---

**Comp #: 922 Booster Pump, 15 HP - Replace****Quantity: (1) Baldor, 15 HP**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Large fire suppression booster pump was also installed in 2012

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 40 years

Remaining Life: 31 years

Best Case: \$ 22,500

Worst Case: \$27,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

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**Comp #: 924 Booster Pumps VFD Control - Replace****Quantity: (1) three pump control**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 20 years

Remaining Life: 11 years

Best Case: \$ 15,700

Worst Case: \$20,300

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 929 System Components, Small - Replace****Quantity: Assorted systems**

Location: Water system, various

Funded?: No. Annual cost best handled as operating expense

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

---

**Comp #: 930 Pressure Tanks - Replace****Quantity: (2) 81 gallon**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5) of Block 3, Division 5

Funded?: No. Cost projected to be too small

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:



## Distribution

---

**Comp #: 940 Distribution Lines, 6"-8" - Replace****Quantity: Approx 26,650 LF**

Location: Throughout community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Installation of primarily PVC C900 products utilized during 2012 project

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 70 years

Remaining Life: 61 years

Best Case: \$ 1,050,000

Worst Case: \$1,300,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 941 Distribution Lines, 2" - Replace****Quantity: Approx 2,500 LF**

Location: Throughout community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 40 years

Remaining Life: 31 years

Best Case: \$ 70,300

Worst Case: \$81,600

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 945 Service Connect/Lines - Replace****Quantity: ~(400) connections**

Location: Service connections throughout community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 40 years

Remaining Life: 31 years

Best Case: \$ 247,000

Worst Case: \$330,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 946 Service Meters - Replace****Quantity: ~(400) meters**

Location: Water service points of community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Water meters with sensors were installed as part of FY 2012/2013 improvements

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 10 years

Remaining Life: 1 years

Best Case: \$ 124,000

Worst Case: \$165,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 947 Service Meter Box/Setters - Replace****Quantity: ~(400) boxes/setters**

Location: Water service points of community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 20 years

Remaining Life: 11 years

Best Case: \$ 124,000

Worst Case: \$165,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History



**Comp #: 950 Pressure Reducing Valves - Replace****Quantity: (60) metal**

Location: Select water service points of community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 20 years

Remaining Life: 11 years

Best Case: \$ 10,800

Worst Case: \$17,600

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 954 Blow-Out/Isolation Valves - Replace****Quantity: (38) total, assorted**

Location: Water service points of community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 30 years

Remaining Life: 21 years

Best Case: \$ 38,500

Worst Case: \$47,100

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 958 Hydrants - Replace****Quantity: (41) hydrants**

Location: Water distribution throughout community

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Installations indicated in 2012

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 40 years

Remaining Life: 31 years

Best Case: \$ 167,000

Worst Case: \$188,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

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## Buildings/Site

**Comp #: 960 Building Exteriors-Maintain/Repair****Quantity: Approx 1,400 GSF**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Annual cost best handled as operating expense

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

---

**Comp #: 962 Building Interiors-Maintain/Repair****Quantity: Moderate GSF**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Annual cost best handled as operating expense

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

---

**Comp #: 964 Building Roofs - Replace****Quantity: Approx 500 square feet**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: 2013 replacement; expense was not provided

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 40 years

Remaining Life: 32 years

Best Case: \$ 3,190

Worst Case: \$4,330

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

---

**Comp #: 967 Storage Shed, Vinyl - Replace****Quantity: (1) 8'x8'**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 20 years

Remaining Life: 12 years

Best Case: \$ 2,480

Worst Case: \$3,610

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

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**Comp #: 969 Building Electrical - Replace****Quantity: Extensive systems**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History:

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 30 years

Remaining Life: 21 years

Best Case: \$ 9,580

Worst Case: \$14,100

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

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**Comp #: 970 Chain Link Fence - Replace****Quantity: Approx 720 linear feet**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Installed in 2013 as a required security improvement; segregated expense was not provided

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 35 years

Remaining Life: 27 years

Best Case: \$ 17,800

Worst Case: \$21,100

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

**Comp #:** 972 Landscape/Trees - Refurbish

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Annual cost best handled as operating expense going forward

History: FY 2014/2015 one-time expense of ~\$8,000 to remove (53) trees

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Best Case:

Cost Source:

**Quantity:** Extensive square feet

Remaining Life:

Worst Case:

---

## Systems/Equipment

**Comp #: 980 Generator, Emergency - Replace**

**Quantity: (1) Marathon, 60KW**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Likely from either the mid 1970's or perhaps early 1980's

Comments: Remaining useful life lowered one year; cost inflated ~3% from 2020/2021 reserve study.

Useful Life: 50 years

Remaining Life: 3 years

Best Case: \$ 45,000

Worst Case: \$67,600

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

**Comp #: 990 Office Equipment/Furniture-Replace**

**Quantity: Minor equipment**

Location: Community Building

Funded?: No. Considered the responsibility of HMC Management, not HMC Water System

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

**Comp #: 991 Small Equipment/Tools - Replace**

**Quantity: Minor equipment**

Location: 421 West Madrona (Lots 7 and 8, Block 3, Division 5)

Funded?: No. Annual cost best handled as operating expense

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

**Comp #: 999 Meter Reader System - Replace**

**Quantity: (1) meter, software**

Location: MPC office

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Contemporary system replacement in FY 2020/2021 at expense of \$20,600; last FY 2012/2013 installation at an expense of ~\$5,000

Comments: Contemporary system replacement in FY 2020/2021 at expense of \$20,600.

Remaining useful life reset; cost adjusted based on actual project in FY 2020/2021.

Useful Life: 7 years

Remaining Life: 6 years

Best Case: \$ 18,600

Worst Case: \$22,600

Lower allowance

Higher allowance

Cost Source: FY 2020/2021 Client Cost History

## Financial/Professional

**Comp #: 1002 Loan - Payoff****Quantity: Unknown principal**

Location: USDA loan

Funded?: No. Collections and payments are handled in a separate account for this debt obligation

History:

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source:

---

**Comp #: 1006 SWSMP - Update****Quantity: Every 6 years**

Location: Community water system

Funded?: Yes. Meets National Reserve Study Standards criteria for Reserve Funding

History: Your previous plans for SWSMP update project to occur in FY 2017/2018 were apparently deferred, now once again deferred to occur in FY 2025/2026. No current bids were available for our review.

Comments: Your previous plans for SWSMP update project to occur in FY 2017/2018 continue to be deferred, now assumed for FY 2025/2026.

Remaining useful life increased with input from Management; extrapolated cost adjusted/increased from 2021 reserve study based on current market conditions

Useful Life: 6 years

Remaining Life: 0 years

Best Case: \$ 4,000

Worst Case: \$5,000

Lower allowance

Higher allowance

Cost Source: ARI Cost Database: Similar Project

Cost History

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**Comp #: 1013 Sanitary Survey - Update****Quantity: Every 5 years**

Location: Community water system

Funded?: No. Cost projected to be too small

History: Completed last in FY 2019/2020; expense was not provided

Comments: Not funded; no changes from previous 2020/2021 reserve study.

Useful Life:

Remaining Life:

Best Case:

Worst Case:

Cost Source: