

# STORM WATER USER RATE STUDY

STORM WATER UTILITY OREM CITY, UTAH

JANUARY 2016





## TABLE OF CONTENTS

| SECTION I: EXECUTIVE SUMMARY                                   | 3  |
|--|----|
| SECTION II: OVERVIEW OF APPROACH AND ADOPTION OF REVISED RATES |    |
| GENERAL RATE OBJECTIVES  RATE DETERMINATION METHODOLOGY        | 5  |
| SECTION III: REVENUE GROWTH ANALYSIS                           | 6  |
| SERVICE AREA  DEMAND UNITS                                     | 6  |
| HISTORIC AND PROJECTED OPERATING REVENUES                      | 6  |
| SECTION IV: COST OF SERVICE ANALYSIS                           |    |
| COSTS TO BE RECOVERED THROUGH SERVICE CHARGES                  | 7  |
| SECTION V: RATE DESIGN ANALYSIS                                | 9  |
| Proposed Rate Structure Scenarios                              | 9  |
| SECTION VI: EVALUATION OF RATE OBJECTIVES                      |    |
| EVALUATION OF EFFECTIVENESS OF RATE OBJECTIVES                 |    |
| APPENDIX A: DETAILED PRO FORMAS                                | 12 |

#### SECTION I: EXECUTIVE SUMMARY

The City of Orem ("City") commissioned Lewis Young Robertson & Burningham, Inc. ("LYRB") to review the existing storm water utility fees (or rates) and provide a recommended rate schedule based on changes in forecasted expenses, capital improvements and bonding needs. The primary objectives of the rate analysis were to ensure sufficient revenues to cover all operation and maintenance (O&M) expenses while maintaining bond covenants, ensuring the appropriate debt service coverage ratio, and providing sufficient revenue to fund the proposed projects identified in the Master Plan and Capital Improvement Plan ("CIP").

A review of projected revenues under the existing rate structure relative to proposed expenses illustrated that the City would not have sufficient revenues to fund the needed capital improvements without a rate increase. As a result, City staff, the City Council and consultants evaluated many potential rate scenarios during the study phase of this analysis, with the City ultimately focusing on three CIP scenarios:

- Scenario 1 Phasing the proposed CIP over a five (5) year period with no new debt;
- **Scenario 2** Phasing the proposed CIP over a seven (7) year period with <u>no new debt</u>; and,
- **Scenario 3** Phasing the proposed CIP over a ten (10) year period with <u>no new debt</u>.

The rate scenarios shown below are structured to produce a final rate of \$8.60 within ten years. The annual rate increase curve (See **Figure 1.1**) for each scenario is adjusted to reflect the changes in the CIP, with Scenarios 2 and 3 funding a reduced CIP in order to allow for a more moderate annual increase in the rates. Scenario 2 results in a decrease of \$713,088 in CIP funding, with Scenario 3 resulting in a decrease of \$857,955.

TABLE 1.1: ILLUSTRATION OF PROPOSED RATE INCREASE SCENARIOS

|                        | S            | cenario 1: 5-Y     | ear                    | Scenario 2: 7-Year |                    |                        |              | Scenario 3: 10-Y   | 'ear                   |
|------------------------|--------------|--------------------|------------------------|--------------------|--------------------|------------------------|--------------|--------------------|------------------------|
|                        | Base Rate    | Annual<br>Increase | Cumulative<br>Increase | Base Rate          | Annual<br>Increase | Cumulative<br>Increase | Base<br>Rate | Annual<br>Increase | Cumulative<br>Increase |
| Current                | \$5.25       | 0.0%               | 0.0%                   | \$5.25             | 0.0%               | 0.0%                   | \$5.25       | 0.0%               | 0.0%                   |
| Year 1                 | \$6.25       | 19.0%              | 19.0%                  | \$5.95             | 13.3%              | 13.3%                  | \$5.85       | 11.4%              | 11.4%                  |
| Year 2                 | \$6.75       | 8.0%               | 28.6%                  | \$6.40             | 7.6%               | 21.9%                  | \$6.25       | 6.8%               | 19.0%                  |
| Year 3                 | \$7.10       | 5.2%               | 35.2%                  | \$6.85             | 7.0%               | 30.5%                  | \$6.60       | 5.6%               | 25.7%                  |
| Year 4                 | \$7.35       | 3.5%               | 40.0%                  | \$7.15             | 4.4%               | 36.2%                  | \$6.90       | 4.5%               | 31.4%                  |
| Year 5                 | \$7.60       | 3.4%               | 44.8%                  | \$7.45             | 4.2%               | 41.9%                  | \$7.20       | 4.3%               | 37.1%                  |
| Year 6                 | \$7.80       | 2.6%               | 48.6%                  | \$7.75             | 4.0%               | 47.6%                  | \$7.50       | 4.2%               | 42.9%                  |
| Year 7                 | \$8.00       | 2.6%               | 52.4%                  | \$8.00             | 3.2%               | 52.4%                  | \$7.80       | 4.0%               | 48.6%                  |
| Year 8                 | \$8.20       | 2.5%               | 56.2%                  | \$8.20             | 2.5%               | 56.2%                  | \$8.10       | 3.8%               | 54.3%                  |
| Year 9                 | \$8.40       | 2.4%               | 60.0%                  | \$8.40             | 2.4%               | 60.0%                  | \$8.40       | 3.7%               | 60.0%                  |
| Year 10                | \$8.60       | 2.4%               | 63.8%                  | \$8.60             | 2.4%               | 63.8%                  | \$8.60       | 2.4%               | 63.8%                  |
| Estimated<br>10 Yr CIP | \$22,684,321 |                    |                        | \$21,980,673       |                    |                        | \$21,109,743 |                    |                        |

The adopted rates by year ten register at 1.15 percent of current median household incomes (MHI), including current annual water and sewer assessments. An affordability index of 1.5 percent of MHI is used as a benchmark in this analysis.

FIGURE 1.1: PROPOSED CIP FUNDING



Each scenario assumes an annual growth of .5 percent in equivalent service units (ESUs). Annual Operation and Maintenance ("O&M") expenditures are assumed to increase by three percent annually. The comparison of revenues and expenditures under the adopted rate increase illustrates that the City will continue to maintain the necessary debt service coverage ratios, while providing necessary funding for capital improvement and replacement projects according to the proposed CIP scenarios. The fund balance is anticipated to decrease slightly over time under each scenario, but remain above the minimum set by the City of maintaining at least 50 percent of O&M expenses in reserve funds.

TABLE 1.2: SUMMARY PRO FORMA – SCENARIO 1

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$6.25      | \$6.75      | \$7.10      | \$7.35      | \$7.60      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,806,815   | 4,129,568   | 4,363,930   | 4,539,212   | 4,716,139   | 5,467,904   |
| Total Operating Expense                                  | (1,676,599) | (1,747,381) | (1,810,480) | (1,868,861) | (1,928,633) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,550,000) | (1,800,000) | (2,000,000) | (2,150,000) | (2,307,660) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 140,954     | 142,495     | 89,317      | 72,950      | 41,052      | 44,022      |
| Change in Net Position after Transfers and Contributions | 50,671      | 51,309      | (2,781)     | (20,070)    | (52,897)    | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,229,603   | 2,280,912   | 2,278,131   | 2,258,062   | 1,985,940   |
| Ending Fund Balance                                      | \$2,229,603 | \$2,280,912 | \$2,278,131 | \$2,258,062 | \$2,205,164 | \$1,931,220 |
| Days of Working Capital                                  | 479         | 470         | 453         | 435         | 412         | 311         |
| Coverage Ratio   | 4.69        | 5.24        | 5.32        | 5.77        | 6.13        | 7.11        |

TABLE 1.3: SUMMARY PRO FORMA – SCENARIO 2

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$5.95      | \$6.40      | \$6.85      | \$7.15      | \$7.45      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,625,583   | 3,917,074   | 4,211,390   | 4,416,570   | 4,623,697   | 5,467,904   |
| Total Operating Expense                                  | (1,658,476) | (1,726,132) | (1,795,226) | (1,856,597) | (1,919,389) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,453,561) | (1,663,228) | (1,856,487) | (2,020,574) | (2,177,369) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 74,285      | 88,022      | 95,544      | 91,997      | 88,145      | 44,022      |
| Change in Net Position after Transfers and Contributions | (15,999)    | (3,164)     | 3,445       | (1,022)     | (5,804)     | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,162,933   | 2,159,769   | 2,163,215   | 2,162,193   | 1,976,500   |
| Ending Fund Balance                                      | \$2,162,933 | \$2,159,769 | \$2,163,215 | \$2,162,193 | \$2,156,388 | \$1,921,780 |
| Days of Working Capital                                  | 470         | 450         | 434         | 419         | 404         | 310         |
| Coverage Ratio   | 4.33        | 4.82        | 5.04        | 5.53        | 5.95        | 7.11        |

TABLE 1.4: SUMMARY PRO FORMA – SCENARIO 3

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$5.85      | \$6.25      | \$6.60      | \$6.90      | \$7.20      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,565,172   | 3,826,005   | 4,058,849   | 4,263,266   | 4,469,627   | 5,467,904   |
| Total Operating Expense                                  | (1,652,435) | (1,717,025) | (1,779,972) | (1,841,266) | (1,903,982) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,403,625) | (1,580,771) | (1,751,754) | (1,907,334) | (2,058,293) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 69,851      | 88,517      | 62,990      | 67,264      | 68,558      | 44,022      |
| Change in Net Position after Transfers and Contributions | (20,433)    | (2,669)     | (29,108)    | (25,755)    | (25,391)    | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,158,500   | 2,155,831   | 2,126,722   | 2,100,967   | 1,989,476   |
| Ending Fund Balance                                      | \$2,158,500 | \$2,155,831 | \$2,126,722 | \$2,100,967 | \$2,075,576 | \$1,934,755 |
| Days of Working Capital                                  | 470         | 452         | 430         | 411         | 392         | 312         |
| Coverage Ratio   | 4.21        | 4.64        | 4.75        | 5.23        | 5.64        | 7.11        |



#### SECTION II: OVERVIEW OF APPROACH AND ADOPTION OF REVISED RATES

This study analyzes potential rate increase scenarios to meet current and future debt service obligations, while ensuring revenue sufficiency for capital improvements, the funding of depreciation (repair and replacement) and existing bond covenants. The recommendations presented in this study are based on reasonable planning, cost, and demand projections. The proposed rate scenarios are designed to recover the costs necessary to maintain a viable utility, while balancing economic and affordability concerns.

#### **EXISTING RATE STRUCTURE**

The existing monthly charge for storm service consist of a base rate of \$5.25 per equivalent service unit (ESU). An ESU is equal to the average impervious surface of a residential property in Orem. The City's existing billing database includes all commercial and governmental properties in Orem. A single family home has an average impervious surface area of 2,700 square feet. This is equal to 1 ESU.

#### **GENERAL RATE OBJECTIVES**

Several objectives were identified by the City which served as the foundation of the rate update and scenario analysis.

- First, the City wanted to ensure sufficient revenues to cover all operation and maintenance (O&M) expenses while maintaining bond covenants and the appropriate debt service coverage ratio of at least 1.25x.
- Second, the City wanted to continue to fund capital improvements in the ten-year window using rate revenues, while minimizing future bonding needs and maintaining a minimum fund balance of 50 percent of annual O&M expenses.
- Third, the City desired to maintain the existing rate structure based on ESU's.
- Finally, the proposed rate recommendations should be easy to implement and equitably distribute cost relative to demand.

#### RATE DETERMINATION METHODOLOGY

Based on the above objectives, the storm water rate analysis has been divided into the following three phases:

- 1. **Revenue Growth Analysis:** LYRB studied existing revenue data and growth projections provided by the City. This information was then analyzed to determine the potential allocation of new accounts and the revenue potential within the storm water utility.
- 2. Cost of Service Analysis: The cost of service analysis is structured to balance revenue sufficiency with future operating and maintenance costs, contracts, repair and replacement, capital expenditures, funding for current system deficiencies and bond service coverage ratios. Expenses were projected out to 2026 and revenues were analyzed under a variety of scenarios to meet the City's needs.
- 3. Rate Design Analysis: The final phase focuses on structuring rates that will collect the necessary revenues based on the City's budgetary needs and rate objectives.

TOTAL ESUS

49,843

50,092

50,342

50,594

50,847

51,101

51,357

51,613

51,871

52.131



#### SECTION III: REVENUE GROWTH ANALYSIS

#### **SERVICE AREA**

The utility rates identified in this document will be assessed to all accounts within the storm water utility service area.

#### **DEMAND UNITS**

The demand units in this analysis are ESUs. According to information provided by the City, there were an average of 49,823 ESUs in 2015, according to monthly revenue estimates. Based on total revenues received, the calculated ESUs for the purpose of this analysis are similar at 49,843, based on total revenues from Charges for Services of \$3,140,081 divided by the base rate of \$5.25.

#### HISTORIC AND PROJECTED OPERATING REVENUES

Utilizing the growth estimates shown in **Table 3.1**, LYRB forecasted the potential revenues generated from current service charges without any rate increases, as shown below.

HISTORIC AND PROJECTED OPERATING REVENUES

TABLE 3.2: HISTORIC OPERATING REVENUES

|        | 2025      | 52,392    |
|--------|-----------|-----------|
|        | 2026      | 52,653    |
|        |           |           |
|        |           |           |
| 13     | 2014      | 2015      |
| 93,384 | 3,044,908 | 3,140,081 |
|        |           |           |

TABLE 3.1: CITY-WIDE ESU GROWTH PROJECTIONS

ESUs (FY)

2015

2016

2017

2018

2019

2020

2021

2023

2024

|                         | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Charges for Services    | 2,688,102   | 2,727,203   | 2,638,310   | 2,779,313   | 2,793,384   | 3,044,908   | 3,140,081   |
| Other Revenues          | 720         | 92,103      | 960         | 165,038     | 298,423     | 58,860      | 30,534      |
| Total Operating Revenue | \$2,688,822 | \$2,819,306 | \$2,639,270 | \$2,944,351 | \$3,091,807 | \$3,103,768 | \$3,170,615 |

TABLE 3.3: FORECASTED OPERATING REVENUES

|                          | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |  |  |  |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|
| Calculated ESUs          | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |  |  |  |
| Scenario 1               |             |             |             |             |             |             |  |  |  |
| Usage Charge (per Month) | \$6.25      | \$6.75      | \$7.10      | \$7.35      | \$7.60      | \$8.60      |  |  |  |
| Total Operating Revenue  | \$3,806,815 | \$4,129,568 | \$4,363,930 | \$4,539,212 | \$4,716,139 | \$5,467,904 |  |  |  |
| Scenario 2               |             |             |             |             |             |             |  |  |  |
| Usage Charge (per Month) | \$5.95      | \$6.40      | \$6.85      | \$7.15      | \$7.45      | \$8.60      |  |  |  |
| Total Operating Revenue  | \$3,625,583 | \$3,917,074 | \$4,211,390 | \$4,416,570 | \$4,623,697 | \$5,467,904 |  |  |  |
| Scenario 3               |             |             |             |             |             |             |  |  |  |
| Usage Charge (per Month) | \$5.85      | \$6.25      | \$6.60      | \$6.90      | \$7.20      | \$8.60      |  |  |  |
| Total Operating Revenue  | \$3,565,172 | \$3,826,005 | \$4,058,849 | \$4,263,266 | \$4,469,627 | \$5,467,904 |  |  |  |

#### PROJECTED NON-OPERATING REVENUES

Non-operating revenues are primarily comprised of impact fee revenues and interest revenues. The City currently assesses an impact fee within a recently annexed area of the City. However, revenues from these sources are not considered in this analysis at this time due to the uncertainty of the timing of new growth. Historic and projected total non-operating revenues are shown below. Assumptions regarding annual non-operating revenues do not change under each scenario.

TABLE 3.4: HISTORIC NON-OPERATING REVENUES

| TABLE 3.4. TIISTORIC NON-OPERATING REVENUES |         |          |         |         |         |          |        |
|---|---------|----------|---------|---------|---------|----------|--------|
| Non-Operating Revenues (Expenses)           | 2009    | 2010     | 2011    | 2012    | 2013    | 2014     | 2015   |
| Interest Revenue                            | 42,185  | 9,672    | 11,610  | 23,372  | 15,164  | 15,261   | 14,869 |
| SWA Impact Fee Revenues                     | -       | -        | -       | -       | -       | -        | -      |
| Gain (Loss) on Sale of Capital Assets       | 45,000  | (12,842) | -       | 15,150  | -       | -        | -      |
| Donations/Grants                            | -       | -        | -       | -       | 198,267 | -        | -      |
| Deferred Charges                            | (5,289) | (5,289)  | (5,289) | (5,289) | (5,289) | (36,705) | -      |
| Total Non-Operating Revenue                 | 81,896  | (8,459)  | 6,321   | 33,233  | 208,142 | (21,444) | 14,869 |

TABLE 3.5: FORECASTED NON-OPERATING REVENUES

|   | Year 1   | Year 2   | Year 3   | Year 4   | Year 5   | Year 10  |
|---|----------|----------|----------|----------|----------|----------|
| Total Non-Operating Revenues (Expenses) | \$15,168 | \$15,320 | \$15,473 | \$15,627 | \$15,784 | \$16,589 |

#### SECTION IV: COST OF SERVICE ANALYSIS

This analysis considers historic revenues and expenses during the period from Fiscal Year ("FY") 2009 through FY 2015, and forecasts revenues and expenditures through 2026. Projected cash flows for the storm water utility were analyzed to ensure that the City's objectives are met – to ensure revenue sufficiency to cover O&M while maintaining bond covenants and the appropriate debt service coverage ratio; fund all necessary capital improvements; begin the process of funding depreciation; and, provide an appropriate fund balance according to the City's existing budget policies.

#### COSTS TO BE RECOVERED THROUGH SERVICE CHARGES

#### **OPERATIONS AND MAINTENANCE**

General O&M expenses are incurred through the normal day-to-day operations of the storm water system. These expenses can include costs such as wages and salaries, benefits, utility costs and supplies. For the storm water system, these costs are considered fixed as the system does not deal with fluctuation in water flows like a culinary or secondary water system. Projections of the future O&M expenses, excluding the Administrative Fee, are projected to grow at an annual rate of three percent. Historic data shows an average annual growth of 1.4 percent growth in expenditures from 2009 to 2015. A comparison to the Municipal Cost Index (MCI) and Construction Cost Index (CCI) shows an average annual change in cost components of 2.8 percent and 3.2 percent respectively.¹ Thus, a three percent increase in operations and maintenance expenses appears reasonable for the purposes of forecasting expenses. According to the City, Administrative Expense is set to ten percent of new revenue plus previous year's total. Thus, the O&M expense is adjusted based on the calculated revenues for each scenario, resulting in a differing O&M forecast, until year ten when this is equalized.

TABLE 4.1: HISTORIC OPERATIONS AND MAINTENANCE EXPENSES

| OPERATING EXPENSE               | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Personal Services               | (674,485)     | (673,916)     | (686,320)     | (669,910)     | (651,159)     | (729,208)     | (659,208)     |
| Supplies and Maintenance        | (212,687)     | (239,202)     | (189,413)     | (210,265)     | (263,956)     | (223,887)     | (236,525)     |
| Administrative Fee*             | (303,240)     | (333,577)     | (334,711)     | (360,310)     | (337,013)     | (358,284)     | (282,964)     |
| Utilities                       | (5,536)       | (5,639)       | (6,647)       | (8,556)       | (8,415)       | (7,450)       | (8,234)       |
| Contract Services               | (162,236)     | (153,990)     | (161,318)     | (148,592)     | (139,232)     | (164,162)     | (244,434)     |
| Equipment Lease and Rentals     | (11,717)      | (9,000)       | (12,105)      | (11,685)      | (9,000)       | (11,761)      | (9,222)       |
| Insurance                       | (29,760)      | (29,760)      | (29,844)      | (41,341)      | (41,571)      | (45,708)      | (45,707)      |
| Changes in Lieu of Property Tax | -             | -             | -             | -             | -             | -             | (29,316)      |
| Miscellaneous                   | (45,857)      | (53,167)      | (19,531)      | (44,187)      | (42,926)      | (42,997)      | (54,934)      |
| Total Operating Expense         | (\$1,445,518) | (\$1,498,251) | (\$1,439,889) | (\$1,494,846) | (\$1,493,272) | (\$1,583,457) | (\$1,570,544) |

Source: City of Orem Financial Statements. \*According to the City, Administrative Expense set to ten percent of new revenue plus previous year's total.

TABLE 4.2: PROJECTED OPERATIONS AND MAINTENANCE EXPENSES

|                                     | Year 1        | Year 2        | Year 3        | Year 4        | Year 5        | Year 10       |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Scenario 1: Total Operating Expense | (1,676,599)   | (1,747,381)   | (1,810,480)   | (1,868,861)   | (1,928,633)   | (2,233,926)   |
| Scenario 2: Total Operating Expense | (1,658,476)   | (1,726,132)   | (1,795,226)   | (1,856,597)   | (1,919,389)   | (2,233,926)   |
| Scenario 3: Total Operating Expense | (\$1,652,435) | (\$1,717,025) | (\$1,779,972) | (\$1,841,266) | (\$1,903,982) | (\$2,233,926) |

#### **CAPITAL PROJECT COSTS**

Capital projects must be constructed to update and expand the storm water system. Capital project costs may be paid through cash reserves, impact fees or debt financing. If the City is able to accumulate sufficient cash reserves and chooses to use these reserves to fund capital projects, the need for debt financing may be mitigated. In this analysis, several projects are identified that must be constructed through 2026 and beyond, and it is proposed that the projects be financed on a pay-as-you-go basis. **Table 4.3** summarizes the total proposed capital improvement estimated construction costs. The City's Master Plan provides a detail of the proposed capital improvement plan (CIP). Scenario 2 results in a decrease of \$713,088 in CIP funding, with Scenario 3 resulting in a decrease of \$857,955.

TABLE 4.3: SUMMARY OF CAPITAL PROJECT COSTS

|  | YEAR 1        | YEAR 2        | YEAR 3        | YEAR 4        | YEAR 5        | YEAR 10       |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Scenario 1 Total CIP (5 Year Phase -In)  | (1,550,000)   | (1,800,000)   | (2,000,000)   | (2,150,000)   | (2,307,660)   | (2,751,470)   |
| Scenario 2 Total CIP (7 Year Phase -In)  | (1,453,561)   | (1,663,228)   | (1,856,487)   | (2,020,574)   | (2,177,369)   | (2,751,470)   |
| Scenario 3 Total CIP (10 Year Phase –In) | (\$1,403,625) | (\$1,580,771) | (\$1,751,754) | (\$1,907,334) | (\$2,058,293) | (\$2,751,470) |

<sup>&</sup>lt;sup>1</sup> Source: http://americancityandcounty.com/mciarchive/#Archive, Accessed January 2016. Based on average from 2000-2015.

#### FUNDING OF DEPRECIATION (REPAIR & REPLACEMENT)

Funding depreciation in the proposed rate structure, or adopting a formal repair and replacement plan, will reduce the City's need to issue future debt, and will therefore decrease future interest expense and help the City avoid abrupt rate increases to fund unforeseen expenses. The City's CIP includes both growth related projects and repair/replacement projects. Thus, an additional allocation in the CIP for depreciation is not included in this analysis.

#### **DEBT SERVICE COSTS**

The City has funded its existing capital infrastructure through a combination of different revenue sources, including rate revenues and the issuance of debt. There are two pieces of outstanding debt applicable to this analysis: the 2005A Water and Storm Sewer Revenue Bonds, of which 33.5 percent is related storm water, and the Series 2013 Water and Storm Sewer Revenue Refunding Bonds which refunded a portion of the 2005A Bonds. The 2005 Project consisted of the City's portion of the cost of a 20 million gallon ("MG") water tank, installation of water lines and construction of certain improvements to the City's storm water system.

TABLE 4.4: OUTSTANDING DEBT

| DEBT SERVICE               | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1994                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2005A                      | (446,405)   | (444,306)   | (445,324)   | (456,989)   | (455,816)   | (20,849)    | (267,218)   | (275,229)   | -           |
| 2005B                      | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2008                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2010                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2013 Refunding of<br>2005A | -           | -           | -           | -           | -           | (\$50,148)  | (\$178,747) | (\$179,189) | (\$454,429) |
| Debt Service               | 2018        | 2019        | 2020        | 2021        | 2022        | 2023        | 2024        | 2025        | 2026        |
| 1994                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2005A                      | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2005B                      | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2008                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2010                       | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 2013 Refunding of<br>2005A | (\$455,011) | (\$479,606) | (\$463,029) | (\$454,577) | (\$454,075) | (\$454,054) | (\$454,829) | (\$454,723) | (\$455,074) |

Based on the desire of the City to reduce future debt issuance, this analysis assumes the City will not issue additional bonds in the planning horizon but will fund future capital needs through new rate revenues.

#### **SECTION V: RATE DESIGN ANALYSIS**

#### PROPOSED RATE STRUCTURE SCENARIOS

The primary objectives of the rate analysis was to ensure sufficient revenues to cover all operation and maintenance (O&M) expenses while maintaining bond covenants and the appropriate debt service coverage ratio. The City also wanted to ensure the recommended rates allowed for appropriate funding of capital improvements in the five-year window.

A review of projected revenues under the existing rate structure relative to proposed expenses illustrated that the City would not have sufficient revenues to fund the needed capital improvements without a rate increase. As a result, City staff, the City Council and consultants evaluated many potential rate scenarios during the study phase of this analysis, with the City ultimately focusing on three CIP scenarios:

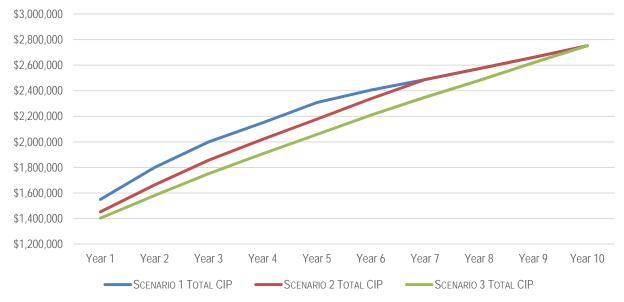
- **Scenario 1** Phasing the proposed CIP over a five (5) year period with no new debt;
- **Scenario 2** Phasing the proposed CIP over a seven (7) year period with <u>no new debt</u>; and,
- **Scenario 3** Phasing the proposed CIP over a ten (10) year period with no new debt.

The rate scenarios shown below are structured to produce a final rate of \$8.60 within ten years. The annual rate increase curve (see **Figure 5.1**) for each scenario is adjusted to reflect the changes in the CIP, with Scenarios 2 and 3 funding a reduced CIP in order to allow for a more moderate annual increase in the rates.

TABLE 5.1: ILLUSTRATION OF PROPOSED RATE INCREASE SCENARIOS

|                        | S            | cenario 1: 5-Y     | ear                    |           | Scenario 2: 7-Y    | ear                    | Scenario 3: 10-Year |                    |                        |  |
|------------------------|--------------|--------------------|------------------------|-----------|--------------------|------------------------|---------------------|--------------------|------------------------|--|
|                        | Base Rate    | Annual<br>Increase | Cumulative<br>Increase | Base Rate | Annual<br>Increase | Cumulative<br>Increase | Base<br>Rate        | Annual<br>Increase | Cumulative<br>Increase |  |
| Current                | \$5.25       | 0.0%               | 0.0%                   | \$5.25    | 0.0%               | 0.0%                   | \$5.25              | 0.0%               | 0.0%                   |  |
| Year 1                 | \$6.25       | 19.0%              | 19.0%                  | \$5.95    | 13.3%              | 13.3%                  | \$5.85              | 11.4%              | 11.4%                  |  |
| Year 2                 | \$6.75       | 8.0%               | 28.6%                  | \$6.40    | 7.6%               | 21.9%                  | \$6.25              | 6.8%               | 19.0%                  |  |
| Year 3                 | \$7.10       | 5.2%               | 35.2%                  | \$6.85    | 7.0%               | 30.5%                  | \$6.60              | 5.6%               | 25.7%                  |  |
| Year 4                 | \$7.35       | 3.5%               | 40.0%                  | \$7.15    | 4.4%               | 36.2%                  | \$6.90              | 4.5%               | 31.4%                  |  |
| Year 5                 | \$7.60       | 3.4%               | 44.8%                  | \$7.45    | 4.2%               | 41.9%                  | \$7.20              | 4.3%               | 37.1%                  |  |
| Year 6                 | \$7.80       | 2.6%               | 48.6%                  | \$7.75    | 4.0%               | 47.6%                  | \$7.50              | 4.2%               | 42.9%                  |  |
| Year 7                 | \$8.00       | 2.6%               | 52.4%                  | \$8.00    | 3.2%               | 52.4%                  | \$7.80              | 4.0%               | 48.6%                  |  |
| Year 8                 | \$8.20       | 2.5%               | 56.2%                  | \$8.20    | 2.5%               | 56.2%                  | \$8.10              | 3.8%               | 54.3%                  |  |
| Year 9                 | \$8.40       | 2.4%               | 60.0%                  | \$8.40    | 2.4%               | 60.0%                  | \$8.40              | 3.7%               | 60.0%                  |  |
| Year 10                | \$8.60       | 2.4%               | 63.8%                  | \$8.60    | 2.4%               | 63.8%                  | \$8.60              | 2.4%               | 63.8%                  |  |
| Estimated<br>10 Yr CIP | \$22,684,321 |                    |                        |           | \$21,980,673       |                        | \$21,109,743        |                    |                        |  |





The comparison of revenues and expenditures under the adopted rate increase illustrates that the City will continue to maintain the necessary debt service coverage ratios, while providing for capital improvement and replacement projects according to the proposed CIP scenarios. The fund balance is anticipated to decrease slightly over time under each scenario, but remain above the minimum set by the City of maintaining at least 50 percent of O&M expenses in reserve funds. In other words, the model forecasts that the City will not be able to transfer funds into reserves as has been done in the past since this revenue will be needed to fund the proposed capital improvement projects.

TABLE 5.2: SUMMARY PRO FORMA - SCENARIO 1

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$6.25      | \$6.75      | \$7.10      | \$7.35      | \$7.60      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,806,815   | 4,129,568   | 4,363,930   | 4,539,212   | 4,716,139   | 5,467,904   |
| Total Operating Expense                                  | (1,676,599) | (1,747,381) | (1,810,480) | (1,868,861) | (1,928,633) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,550,000) | (1,800,000) | (2,000,000) | (2,150,000) | (2,307,660) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 140,954     | 142,495     | 89,317      | 72,950      | 41,052      | 44,022      |
| Change in Net Position after Transfers and Contributions | 50,671      | 51,309      | (2,781)     | (20,070)    | (52,897)    | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,229,603   | 2,280,912   | 2,278,131   | 2,258,062   | 1,985,940   |
| Ending Fund Balance                                      | \$2,229,603 | \$2,280,912 | \$2,278,131 | \$2,258,062 | \$2,205,164 | \$1,931,220 |
| Days of Working Capital                                  | 479         | 470         | 453         | 435         | 412         | 311         |
| Coverage Ratio   | 4.69        | 5.24        | 5.32        | 5.77        | 6.13        | 7.11        |

TABLE 5.3: SUMMARY PRO FORMA – SCENARIO 2

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$5.95      | \$6.40      | \$6.85      | \$7.15      | \$7.45      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,625,583   | 3,917,074   | 4,211,390   | 4,416,570   | 4,623,697   | 5,467,904   |
| Total Operating Expense                                  | (1,658,476) | (1,726,132) | (1,795,226) | (1,856,597) | (1,919,389) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,453,561) | (1,663,228) | (1,856,487) | (2,020,574) | (2,177,369) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 74,285      | 88,022      | 95,544      | 91,997      | 88,145      | 44,022      |
| Change in Net Position after Transfers and Contributions | (15,999)    | (3,164)     | 3,445       | (1,022)     | (5,804)     | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,162,933   | 2,159,769   | 2,163,215   | 2,162,193   | 1,976,500   |
| Ending Fund Balance                                      | \$2,162,933 | \$2,159,769 | \$2,163,215 | \$2,162,193 | \$2,156,388 | \$1,921,780 |
| Days of Working Capital                                  | 470         | 450         | 434         | 419         | 404         | 310         |
| Coverage Ratio   | 4.33        | 4.82        | 5.04        | 5.53        | 5.95        | 7.11        |

TABLE 5.4: SUMMARY PRO FORMA – SCENARIO 3

|  | Year 1      | Year 2      | Year 3      | Year 4      | Year 5      | Year 10     |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Usage Charge (per Month)                                 | \$5.85      | \$6.25      | \$6.60      | \$6.90      | \$7.20      | \$8.60      |
| Calculated ESUs  | 50,342      | 50,594      | 50,847      | 51,101      | 51,357      | 52,653      |
| Total Operating Revenue                                  | 3,565,172   | 3,826,005   | 4,058,849   | 4,263,266   | 4,469,627   | 5,467,904   |
| Total Operating Expense                                  | (1,652,435) | (1,717,025) | (1,779,972) | (1,841,266) | (1,903,982) | (2,233,926) |
| Total Non-Operating Revenue                              | 15,168      | 15,320      | 15,473      | 15,627      | 15,784      | 16,589      |
| Total DS   | (454,429)   | (455,011)   | (479,606)   | (463,029)   | (454,577)   | (455,074)   |
| Total CIP  | (1,403,625) | (1,580,771) | (1,751,754) | (1,907,334) | (2,058,293) | (2,751,470) |
| Net Income (Loss) Before Transfers                       | 69,851      | 88,517      | 62,990      | 67,264      | 68,558      | 44,022      |
| Change in Net Position after Transfers and Contributions | (20,433)    | (2,669)     | (29,108)    | (25,755)    | (25,391)    | (54,720)    |
| Beginning Fund Balance                                   | 2,178,932   | 2,158,500   | 2,155,831   | 2,126,722   | 2,100,967   | 1,989,476   |
| Ending Fund Balance                                      | \$2,158,500 | \$2,155,831 | \$2,126,722 | \$2,100,967 | \$2,075,576 | \$1,934,755 |
| Days of Working Capital                                  | 470         | 452         | 430         | 411         | 392         | 312         |
| Coverage Ratio   | 4.21        | 4.64        | 4.75        | 5.23        | 5.64        | 7.11        |

#### SECTION VI: EVALUATION OF RATE OBJECTIVES

Several objectives were identified by the City which served as the foundation of the rate update and scenario analysis.

- First, the City wanted to ensure sufficient revenues to cover all operation and maintenance (O&M) expenses while maintaining bond covenants and the appropriate debt service coverage ratio of at least 1.25x.
- Second, the City wanted to continue to fund capital improvements in the five-year window using rate revenues, while minimizing future bonding needs and maintaining a minimum of 90 days or working capital.
- Third, the City desired to maintain the existing rate structure based on ESU's.
- Finally, the proposed rate recommendations should be easy to implement and equitably distribute cost relative to demand.

#### **EVALUATION OF EFFECTIVENESS OF RATE OBJECTIVES**

#### **REVENUE SUFFICIENCY**

Rates are structured to ensure that all operational and maintenance expenses are covered, while maintaining reserves to fund repair and replacement costs, as well as future capital costs. The fund balance is anticipated to decrease slightly over time under each scenario, but remain above the minimum set by the City of maintaining at least 50 percent of Operation and Maintenance expenses in reserve funds.

#### FUNDING CAPITAL COSTS AND MAINTAINING REVENUE SUFFICIENCY

The rate analysis considers necessary increases to adequately fund the repair and replacement of existing facilities, future capital costs and to maintain a fund balance at the end of each year utilizing a pay-as-you go approach.

#### **RATE STRUCTURE**

The adopted rate maintains the existing rate structure with a fee assessment per ESU.

#### **EQUITY AND SIMPLICITY**

The adopted rates are simple to understand and the calculation follows a reasonable methodology by which the rates are assessed. Currently, rates are assessed based on a fee per ESU (based on impervious area), which is the method applied in this analysis. This is intended to assess a fee that is directly related to demand, i.e. storm water run-off from impervious surfaces throughout the City.

#### CUSTOMER IMPACT AND AFFORDABILITY

The City must collect, through monthly rates, the costs of running efficient and effective utilities while making certain that the rates are affordable to the customers to whom the service is provided. The adopted rates by year ten register at 1.15 percent of current median household incomes (MHI), including current annual water and sewer assessments. An affordability index of 1.5 percent of MHI is used as a benchmark in this analysis, which is the affordability index for a combined annual water and sewer bill for an AA rated sewer or water utility bond. This falls below typical rating agency's affordability threshold.<sup>2</sup> It is important to note that the table below includes the full increase to the storm water rates at the end of the pro forma (Fiscal Year 2026) compared to the unadjusted 2015 MHI. Thus, this illustration represents a conservative estimate of affordability.

TABLE 6.1: AFFORDABILITY OF ADOPTED RATES AT END OF TEN YEAR PERIOD

| Orem 2015 Median Household Income | \$54,048      |
|-----------------------------------|---------------|
| Estimate of Annual Storm Bill     | \$103         |
| Estimate of Annual Sewer Bill     | \$265         |
| Estimate of Annual Water Bill     | \$252         |
| Total Combined Annual Bill        | <i>\$</i> 620 |
| % of MHI                          | 1.15%         |

Source: U.S. Census Bureau 2008-2012 ACS Survey 5-Year Estimates, Selected Economic Characteristics

Estimate of annual bill based on typical single-family dwelling.

<sup>&</sup>lt;sup>2</sup> See "Tax Supported Rating Criteria", August 14, 2012, Fitch Ratings.

## APPENDIX A: DETAILED PRO FORMAS



Orem City
Utility Rate Study
Storm Sewer Fund
Preliminary Data

## Scenario 1: 5-Year CIP Phasing

|   |               | Existing                   | Year 1                  | Year 2        | Year 3                   | Year 4                      | Year 5                    | Year 6               | Year 7        | Year 8                    | Year 9                    | Year 10                   |
|---|---------------|----------------------------|-------------------------|---------------|--------------------------|-----------------------------|---------------------------|----------------------|---------------|---------------------------|---------------------------|---------------------------|
|   | 2015          | 2016                       | 2017                    | 2018          | 2019                     | 2020                        | 2021                      | 2022                 | 2023          | 2024                      | 2025                      | 2026                      |
| Usage Charge (per Month)  | \$5.25        | \$5.25                     | \$6.25                  | \$6.75        | \$7.10                   | \$7.35                      | \$7.60                    | \$7.80               | \$8.00        | \$8.20                    | \$8.40                    | \$8.60                    |
| Calculated ESUs   | 49,843        | 50,092                     | 50,342                  | 50,594        | 50,847                   | 51,101                      | 51,357                    | 51,613               | 51,871        | 52,131                    | 52,392                    | 52,653                    |
| Charges for Services  | \$3,140,081   | \$3,155,781                | \$3,775,667             | \$4,098,109   | \$4,332,157              | \$4,507,121                 | \$4,683,726               | \$4,831,017          | \$4,979,664   | \$5,129,676               | \$5,281,064               | \$5,433,838               |
| Other Revenues  | \$30,534      | \$30,839                   | \$31,148                | \$31,459      | \$31,774                 | \$32,092                    | \$32,412                  | \$32,737             | \$33,064      | \$33,395                  | \$33,729                  | \$34,066                  |
| Total Operating Revenue   | \$3,170,615   | \$3,186,621                | \$3,806,815             | \$4,129,568   | \$4,363,930              | \$4,539,212                 | \$4,716,139               | \$4,863,754          | \$5,012,728   | \$5,163,071               | \$5,314,793               | \$5,467,904               |
| Operating Expense   |               |                            |                         |               |                          |                             |                           |                      |               |                           |                           |                           |
| Personal Services   | (\$659,208)   | (\$678,984)                | (\$699,354)             | (\$720,334)   | (\$741,944)              | (\$764,203)                 | (\$787,129)               | (\$810,743)          | (\$835,065)   | (\$860,117)               | (\$885,920)               | (\$912,498)               |
| Supplies and Maintenance  | (\$236,525)   | (\$243,621)                | (\$250,929)             | (\$258,457)   | (\$266,211)              | (\$274,197)                 | (\$282,423)               | (\$290,896)          | (\$299,623)   | (\$308,611)               | (\$317,870)               | (\$327,406)               |
| Administrative Fee  | (\$282,964)   | (\$330,014)                | (\$392,003)             | (\$424,247)   | (\$447,652)              | (\$465,148)                 | (\$482,809)               | (\$497,538)          | (\$512,402)   | (\$527,404)               | (\$542,542)               | (\$557,820)               |
| Utilities   | (\$8,234)     | (\$8,481)                  | (\$8,735)               | (\$8,998)     | (\$9,267)                | (\$9,545)                   | (\$9,832)                 | (\$10,127)           | (\$10,431)    | (\$10,744)                | (\$11,066)                | (\$11,398)                |
| Contract Services   | (\$244,434)   | (\$172,740)                | (\$177,923)             | (\$183,260)   | (\$188,758)              | (\$194,421)                 | (\$200,253)               | (\$206,261)          | (\$212,449)   | (\$218,822)               | (\$225,387)               | (\$232,149)               |
| Equipment Lease and Rentals                                       | (\$9,222)     | (\$9,499)                  | (\$9,784)               | (\$10,077)    | (\$10,379)               | (\$10,691)                  | (\$11,012)                | (\$11,342)           | (\$11,682)    | (\$12,033)                | (\$12,394)                | (\$12,765)                |
| Insurance   | (\$45,707)    | (\$47,078)                 | (\$48,491)              | (\$49,945)    | (\$51,444)               | (\$52,987)                  | (\$54,577)                | (\$56,214)           | (\$57,900)    | (\$59,637)                | (\$61,426)                | (\$63,269)                |
| Changes in Lieu of Property Tax                                   | (\$29,316)    | (\$30,195)                 | (\$31,101)              | (\$32,034)    | (\$32,995)               | (\$33,985)                  | (\$35,005)                | (\$36,055)           | (\$37,137)    | (\$38,251)                | (\$39,398)                | (\$40,580)                |
| Miscellaneous   | (\$54,934)    | (\$56,582)                 | (\$58,279)              | (\$60,028)    | (\$61,829)               | (\$63,684)                  | (\$65,594)                | (\$67,562)           | (\$69,589)    | (\$71,676)                | (\$73,827)                | (\$76,042)                |
| Total Operating Expense   | (\$1,570,544) | (\$1,577,195)              | (\$1,676,599)           | (\$1,747,381) | (\$1,810,480)            | (\$1,868,861)               | (\$1,928,633)             | (\$1,986,737)        | (\$2,046,277) | (\$2,107,295)             | (\$2,169,830)             | (\$2,233,926)             |
| Net Operating Income (Loss)                                       | \$1,600,071   | \$1,609,426                | \$2,130,216             | \$2,382,187   | \$2,553,451              | \$2,670,351                 | \$2,787,506               | \$2,877,017          | \$2,966,450   | \$3,055,776               | \$3,144,962               | \$3,233,977               |
| Total Non Operating Revenue                                       | \$14,869      | \$15,018                   | \$15,168                | \$15,320      | \$15,473                 | \$15,627                    | \$15,784                  | \$15,942             | \$16,101      | \$16,262                  | \$16,425                  | \$16,589                  |
| Total Revenue Available for DS                                    | \$1,614,940   | \$1,624,443                | \$2,145,384             | \$2,397,507   | \$2,568,923              | \$2,685,979                 | \$2,803,290               | \$2,892,959          | \$2,982,551   | \$3,072,038               | \$3,161,387               | \$3,250,566               |
| Debt Service  |               |                            |                         |               |                          |                             |                           |                      |               |                           |                           |                           |
| 1994  | •             |                            | =                       | -             | -                        | -                           | -                         | -                    | -             | -                         | =                         | -                         |
| 2005A   | (\$267,218)   | (\$275,229)                | =                       | -             | -                        | -                           | -                         | -                    | -             | -                         | =                         | -                         |
| 2005B   | -             | -                          | -                       | -             | -                        | -                           |                           | -                    | -             | -                         | -                         | -                         |
| 2008  | -             | -                          | -                       | -             | -                        | -                           | -                         | -                    | -             | -                         | -                         | -                         |
| 2010  |               |                            |                         | -             |                          | -                           |                           | -                    | -             |                           |                           |                           |
| 2013 Refunding of 2005A   | (\$178,747)   | (\$179,189)                | (\$454,429)             | (\$455,011)   | (\$479,606)              | (\$463,029)                 | (\$454,577)               | (\$454,075)          | (\$454,054)   | (\$454,829)               | (\$454,723)               | (\$455,074)               |
| Proposed: Series 2016   | -             |                            | -                       | -             | -                        | -                           | -                         | -                    | -             | -                         | -                         | -                         |
| Proposed: Series 2020   | •             | •                          | -                       | -             | -                        | -                           |                           | -                    | -             | -                         | -                         | -                         |
| Total DS  | (\$445,964)   | (\$454,418)                | (\$454,429)             | (\$455,011)   | (\$479,606)              | (\$463,029)                 | (\$454,577)               | (\$454,075)          | (\$454,054)   | (\$454,829)               | (\$454,723)               | (\$455,074)               |
| Total Revenue Available for CIP                                   | \$1,168,976   | \$1,170,025                | \$1,690,954             | \$1,942,495   | \$2,089,317              | \$2,222,950                 | \$2,348,712               | \$2,438,883          | \$2,528,498   | \$2,617,209               | \$2,706,664               | \$2,795,492               |
| Total CIP   |               | (\$1,211,076)              | (\$1,550,000)           | (\$1,800,000) | (\$2,000,000)            | (\$2,150,000)               | (\$2,307,660)             | (\$2,405,017)        | (\$2,487,312) | (\$2,572,421)             | (\$2,660,441)             | (\$2,751,470)             |
| Proposed: Series 2016 Proceeds                                    |               |                            | -                       | -             | -                        | -                           | -                         | -                    | -             | -                         | -                         | -                         |
| Proposed: Series 2020 Proceeds                                    |               |                            | -                       | -             | -                        | -                           |                           | -                    | -             | -                         | -                         | -                         |
| Total Bond Proceeds   |               | (041.054)                  |                         |               |                          | ±70.050                     |                           |                      |               |                           |                           | ****                      |
| Net Income (Loss) Before Transfers                                |               | (\$41,051)                 | \$140,954               | \$142,495     | \$89,317                 | <b>\$72,950</b><br>\$52,030 | \$41,052<br>\$52,551      | \$33,866<br>\$53,076 | \$41,186      | \$44,788                  | \$46,223                  | \$44,022<br>\$55,231      |
| Contributions from Developers Contributions from Government Funds |               | \$50,000                   | \$50,500                | \$51,005      | \$51,515                 | \$52,030                    | \$52,551                  | \$33,070             | \$53,607      | \$54,143                  | \$54,684                  | \$33,231                  |
| Transfers In  |               |                            |                         | -             | -                        | =                           | •                         |                      | -             | · ·                       | =                         | -                         |
| Transfers Out   |               | (\$139,390)                | (\$140,784)             | (\$142,191)   | (\$143,613)              | (\$145,049)                 | (\$146,500)               | (\$147,965)          | (\$149,445)   | (\$150,939)               | (\$152,448)               | (\$153,973)               |
|   |               |                            |                         |               |                          |                             |                           |                      |               |                           |                           |                           |
| Change in Net Position  |               | (\$130,441)<br>\$2,309,373 | \$50,671<br>\$2,178,932 | \$51,309      | (\$2,781)<br>\$2,280,912 | (\$20,070)<br>\$2,278,131   | (\$52,897)<br>\$2,258,062 | (\$61,023)           | (\$54,652)    | (\$52,009)<br>\$2,089,489 | (\$51,541)<br>\$2,037,481 | (\$54,720)<br>\$1,985,940 |
| Beginning Cash Balance  |               |                            |                         | \$2,229,603   |                          |                             |                           | \$2,205,164          | \$2,144,142   |                           |                           |                           |
| Ending Fund Balance   |               | \$2,178,932                | \$2,229,603             | \$2,280,912   | \$2,278,131              | \$2,258,062                 | \$2,205,164               | \$2,144,142          | \$2,089,489   | \$2,037,481               | \$1,985,940               | \$1,931,220               |
| General Fund Restricted (Bond Proceeds)                           | ¢0.000.070    |                            | ±0.000.400              | -             | 40.070.404               | ±0.050.040                  | 60 005 1/4                | -                    | *** ****      |                           |                           | 44 004 000                |
| Unrestricted  | \$2,309,373   | \$2,178,932                | \$2,229,603             | \$2,280,912   | \$2,278,131              | \$2,258,062                 | \$2,205,164               | \$2,144,142          | \$2,089,489   | \$2,037,481               | \$1,985,940               | \$1,931,220               |
| Unrestricted Days of Working Capital                              | 529           | 497                        | 479                     | 470           | 453                      | 435                         | 412                       | 389                  | 368           | 348                       | 329                       | 311                       |
| Coverage Ratio (w/Impact Fees)                                    |               | 3.54                       | 4.69                    | 5.24          | 5.32                     | 5.77                        | 6.13                      | 6.34                 | 6.53          | 6.72                      | 6.92                      | 7.11                      |
| Coverage Ratio (w/o Impact Fees)                                  |               | 3.54                       | 4.69                    | 5.24          | 5.32                     | 5.77                        | 6.13                      | 6.34                 | 6.53          | 6.72                      | 6.92                      | 7.11                      |
|   |               |                            |                         |               |                          |                             |                           |                      |               |                           |                           |                           |



Orem City
Utility Rate Study
Storm Sewer Fund
Preliminary Data

## Scenario 2: 7-Year CIP Phasing

|   |               | Existing                   | Year 1                    | Year 2                   | Year 3                 | Year 4        | Year 5        | Year 6               | Year 7                    | Year 8                    | Year 9                    | Year 10                   |
|---|---------------|----------------------------|---------------------------|--------------------------|------------------------|---------------|---------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|   | 2015          | 2016                       | 2017                      | 2018                     | 2019                   | 2020          | 2021          | 2022                 | 2023                      | 2024                      | 2025                      | 2026                      |
| Usage Charge (per Month)  | \$5.25        | \$5.25                     | \$5.95                    | \$6.40                   | \$6.85                 | \$7.15        | \$7.45        | \$7.75               | \$8.00                    | \$8.20                    | \$8.40                    | \$8.60                    |
| Calculated ESUs   | 49,843        | 50,092                     | 50,342                    | 50,594                   | 50,847                 | 51,101        | 51,357        | 51,613               | 51,871                    | 52,131                    | 52,392                    | 52,653                    |
| Charges for Services  | \$3,140,081   | \$3,155,781                | \$3,594,435               | \$3,885,614              | \$4,179,616            | \$4,384,478   | \$4,591,284   | \$4,800,049          | \$4,979,664               | \$5,129,676               | \$5,281,064               | \$5,433,838               |
| Other Revenues  | \$30,534      | \$30,839                   | \$31,148                  | \$31,459                 | \$31,774               | \$32,092      | \$32,412      | \$32,737             | \$33,064                  | \$33,395                  | \$33,729                  | \$34,066                  |
| Total Operating Revenue   | \$3,170,615   | \$3,186,621                | \$3,625,583               | \$3,917,074              | \$4,211,390            | \$4,416,570   | \$4,623,697   | \$4,832,786          | \$5,012,728               | \$5,163,071               | \$5,314,793               | \$5,467,904               |
| Operating Expense   |               |                            |                           |                          |                        |               |               |                      |                           |                           |                           |                           |
| Personal Services   | (\$659,208)   | (\$678,984)                | (\$699,354)               | (\$720,334)              | (\$741,944)            | (\$764,203)   | (\$787,129)   | (\$810,743)          | (\$835,065)               | (\$860,117)               | (\$885,920)               | (\$912,498)               |
| Supplies and Maintenance  | (\$236,525)   | (\$243,621)                | (\$250,929)               | (\$258,457)              | (\$266,211)            | (\$274,197)   | (\$282,423)   | (\$290,896)          | (\$299,623)               | (\$308,611)               | (\$317,870)               | (\$327,406)               |
| Administrative Fee  | (\$282,964)   | (\$330,014)                | (\$373,880)               | (\$402,997)              | (\$432,398)            | (\$452,884)   | (\$473,564)   | (\$494,441)          | (\$512,402)               | (\$527,404)               | (\$542,542)               | (\$557,820)               |
| Utilities   | (\$8,234)     | (\$8,481)                  | (\$8,735)                 | (\$8,998)                | (\$9,267)              | (\$9,545)     | (\$9,832)     | (\$10,127)           | (\$10,431)                | (\$10,744)                | (\$11,066)                | (\$11,398)                |
| Contract Services   | (\$244,434)   | (\$172,740)                | (\$177,923)               | (\$183,260)              | (\$188,758)            | (\$194,421)   | (\$200,253)   | (\$206,261)          | (\$212,449)               | (\$218,822)               | (\$225,387)               | (\$232,149)               |
| Equipment Lease and Rentals                                       | (\$9,222)     | (\$9,499)                  | (\$9,784)                 | (\$10,077)               | (\$10,379)             | (\$10,691)    | (\$11,012)    | (\$11,342)           | (\$11,682)                | (\$12,033)                | (\$12,394)                | (\$12,765)                |
| Insurance   | (\$45,707)    | (\$47,078)                 | (\$48,491)                | (\$49,945)               | (\$51,444)             | (\$52,987)    | (\$54,577)    | (\$56,214)           | (\$57,900)                | (\$59,637)                | (\$61,426)                | (\$63,269)                |
| Changes in Lieu of Property Tax                                   | (\$29,316)    | (\$30,195)                 | (\$31,101)                | (\$32,034)               | (\$32,995)             | (\$33,985)    | (\$35,005)    | (\$36,055)           | (\$37,137)                | (\$38,251)                | (\$39,398)                | (\$40,580)                |
| Miscellaneous   | (\$54,934)    | (\$56,582)                 | (\$58,279)                | (\$60,028)               | (\$61,829)             | (\$63,684)    | (\$65,594)    | (\$67,562)           | (\$69,589)                | (\$71,676)                | (\$73,827)                | (\$76,042)                |
| Total Operating Expense   | (\$1,570,544) | (\$1,577,195)              | (\$1,658,476)             | (\$1,726,132)            | (\$1,795,226)          | (\$1,856,597) | (\$1,919,389) | (\$1,983,640)        | (\$2,046,277)             | (\$2,107,295)             | (\$2,169,830)             | (\$2,233,926)             |
| Net Operating Income (Loss)                                       | \$1,600,071   | \$1,609,426                | \$1,967,107               | \$2,190,942              | \$2,416,164            | \$2,559,973   | \$2,704,308   | \$2,849,146          | \$2,966,450               | \$3,055,776               | \$3,144,962               | \$3,233,977               |
| Total Non Operating Revenue                                       | \$14,869      | \$15,018                   | \$15,168                  | \$15,320                 | \$15,473               | \$15,627      | \$15,784      | \$15,942             | \$16,101                  | \$16,262                  | \$16,425                  | \$16,589                  |
| Total Revenue Available for DS                                    | \$1,614,940   | \$1,624,443                | \$1,982,275               | \$2,206,262              | \$2,431,637            | \$2,575,600   | \$2,720,092   | \$2,865,087          | \$2,982,551               | \$3,072,038               | \$3,161,387               | \$3,250,566               |
| Debt Service  |               |                            |                           |                          |                        |               |               |                      |                           |                           |                           |                           |
| 1994  | •             |                            | =                         | -                        | -                      | -             | -             | -                    | -                         | -                         | =                         | -                         |
| 2005A   | (\$267,218)   | (\$275,229)                | =                         | -                        | -                      | -             | -             | -                    | -                         | -                         | =                         | -                         |
| 2005B   | -             | -                          | -                         | -                        | -                      | -             | -             | -                    | -                         | -                         | -                         | -                         |
| 2008  | -             | -                          | -                         | -                        | -                      | -             | -             | -                    | -                         | -                         | -                         | -                         |
| 2010  |               |                            |                           | -                        | -                      | -             |               | -                    | -                         | -                         |                           |                           |
| 2013 Refunding of 2005A   | (\$178,747)   | (\$179,189)                | (\$454,429)               | (\$455,011)              | (\$479,606)            | (\$463,029)   | (\$454,577)   | (\$454,075)          | (\$454,054)               | (\$454,829)               | (\$454,723)               | (\$455,074)               |
| Proposed: Series 2016   | -             |                            | -                         | -                        | -                      | -             | -             | -                    | -                         | -                         | -                         | -                         |
| Proposed: Series 2020   | •             | •                          | -                         | -                        | -                      | =             | - 1           | •                    | -                         | -                         | -                         | -                         |
| Total DS  | (\$445,964)   | (\$454,418)                | (\$454,429)               | (\$455,011)              | (\$479,606)            | (\$463,029)   | (\$454,577)   | (\$454,075)          | (\$454,054)               | (\$454,829)               | (\$454,723)               | (\$455,074)               |
| Total Revenue Available for CIP                                   | \$1,168,976   | \$1,170,025                | \$1,527,846               | \$1,751,250              | \$1,952,031            | \$2,112,571   | \$2,265,514   | \$2,411,012          | \$2,528,498               | \$2,617,209               | \$2,706,664               | \$2,795,492               |
| Total CIP   |               | (\$1,211,076)              | (\$1,453,561)             | (\$1,663,228)            | (\$1,856,487)          | (\$2,020,574) | (\$2,177,369) | (\$2,337,810)        | (\$2,487,312)             | (\$2,572,421)             | (\$2,660,441)             | (\$2,751,470)             |
| Proposed: Series 2016 Proceeds                                    |               |                            | -                         | -                        | -                      | -             | -             | -                    | -                         | -                         | -                         | -                         |
| Proposed: Series 2020 Proceeds                                    |               |                            | -                         | -                        | -                      | •             | -             | •                    | •                         | -                         | -                         |                           |
| Total Bond Proceeds   |               | (041.054)                  |                           | -                        | -                      |               |               |                      |                           |                           |                           | ****                      |
| Net Income (Loss) Before Transfers                                |               | (\$41,051)                 | \$74,285                  | \$88,022                 | \$95,544               | \$91,997      | \$88,145      | \$73,202<br>\$53,076 | \$41,186                  | \$44,788                  | \$46,223                  | \$44,022<br>\$55,231      |
| Contributions from Developers Contributions from Government Funds |               | \$50,000                   | \$50,500                  | \$51,005                 | \$51,515               | \$52,030      | \$52,551      | \$33,070             | \$53,607                  | \$54,143                  | \$54,684                  | \$33,231                  |
| Transfers In  |               |                            |                           | -                        | -                      | -             | •             | -                    | -                         | -                         | =                         | -                         |
| Transfers Out   |               | (\$139,390)                | (\$140,784)               | (\$142,191)              | (\$143,613)            | (\$145,049)   | (\$146,500)   | (\$147,965)          | (\$149,445)               | (\$150,939)               | (\$152,448)               | (\$153,973)               |
|   |               |                            |                           |                          |                        |               |               |                      |                           |                           |                           |                           |
| Change in Net Position  |               | (\$130,441)<br>\$2,309,373 | (\$15,999)<br>\$2,178,932 | (\$3,164)<br>\$2,162,933 | \$3,445<br>\$2,159,769 | (\$1,022)     | (\$5,804)     | (\$21,687)           | (\$54,652)<br>\$2,134,702 | (\$52,009)<br>\$2,080,049 | (\$51,541)<br>\$2,028,041 | (\$54,720)<br>\$1,976,500 |
| Beginning Cash Balance  |               |                            |                           |                          |                        | \$2,163,215   | \$2,162,193   | \$2,156,388          |                           |                           |                           |                           |
| Ending Fund Balance   |               | \$2,178,932                | \$2,162,933               | \$2,159,769              | \$2,163,215            | \$2,162,193   | \$2,156,388   | \$2,134,702          | \$2,080,049               | \$2,028,041               | \$1,976,500               | \$1,921,780               |
| General Fund Restricted (Bond Proceeds)                           | ¢2 200 272    | 62 170 022                 | ÷2 1/2 022                | ÷2.150.7/0               | ė2 1/2 21E             | en 1/2 102    | e2 15/ 200    | en 124 702           | ÷2 000 040                | £2 020 041                | ÷1.07/ E00                | ė1 001 700                |
| Unrestricted  | \$2,309,373   | \$2,178,932                | \$2,162,933               | \$2,159,769              | \$2,163,215            | \$2,162,193   | \$2,156,388   | \$2,134,702          | \$2,080,049               | \$2,028,041               | \$1,976,500               | \$1,921,780               |
| Unrestricted Days of Working Capital                              | 529           | 497                        | 470                       | 450                      | 434                    | 419           | 404           | 387                  | 366                       | 346                       | 328                       | 310                       |
| Coverage Ratio (w/Impact Fees)                                    |               | 3.54                       | 4.33                      | 4.82                     | 5.04                   | 5.53          | 5.95          | 6.27                 | 6.53                      | 6.72                      | 6.92                      | 7.11                      |
| Coverage Ratio (w/o Impact Fees)                                  |               | 3.54                       | 4.33                      | 4.82                     | 5.04                   | 5.53          | 5.95          | 6.27                 | 6.53                      | 6.72                      | 6.92                      | 7.11                      |
|   |               |                            |                           |                          |                        |               |               |                      |                           |                           |                           |                           |



Orem City
Utility Rate Study
Storm Sewer Fund
Preliminary Data

## Scenario 3: 10-Year CIP Phasing

|   |               | Existing      | Year 1        | Year 2        | Year 3        | Year 4        | Year 5        | Year 6        | Year 7        | Year 8        | Year 9        | Year 10       |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|   | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          | 2024          | 2025          | 2026          |
| Usage Charge (per Month)                | \$5.25        | \$5.25        | \$5.85        | \$6.25        | \$6.60        | \$6.90        | \$7.20        | \$7.50        | \$7.80        | \$8.10        | \$8.40        | \$8.60        |
| Calculated ESUs                         | 49,843        | 50,092        | 50,342        | 50,594        | 50,847        | 51,101        | 51,357        | 51,613        | 51,871        | 52,131        | 52,392        | 52,653        |
| Charges for Services                    | \$3,140,081   | \$3,155,781   | \$3,534,024   | \$3,794,545   | \$4,027,075   | \$4,231,175   | \$4,437,214   | \$4,645,209   | \$4,855,172   | \$5,067,119   | \$5,281,064   | \$5,433,838   |
| Other Revenues                          | \$30,534      | \$30,839      | \$31,148      | \$31,459      | \$31,774      | \$32,092      | \$32,412      | \$32,737      | \$33,064      | \$33,395      | \$33,729      | \$34,066      |
| Total Operating Revenue                 | \$3,170,615   | \$3,186,621   | \$3,565,172   | \$3,826,005   | \$4,058,849   | \$4,263,266   | \$4,469,627   | \$4,677,945   | \$4,888,236   | \$5,100,514   | \$5,314,793   | \$5,467,904   |
| Operating Expense                       |               |               |               |               |               |               |               |               |               |               |               |               |
| Personal Services                       | (\$659,208)   | (\$678,984)   | (\$699,354)   | (\$720,334)   | (\$741,944)   | (\$764,203)   | (\$787,129)   | (\$810,743)   | (\$835,065)   | (\$860,117)   | (\$885,920)   | (\$912,498)   |
| Supplies and Maintenance                | (\$236,525)   | (\$243,621)   | (\$250,929)   | (\$258,457)   | (\$266,211)   | (\$274,197)   | (\$282,423)   | (\$290,896)   | (\$299,623)   | (\$308,611)   | (\$317,870)   | (\$327,406)   |
| Administrative Fee                      | (\$282,964)   | (\$330,014)   | (\$367,838)   | (\$393,891)   | (\$417,144)   | (\$437,553)   | (\$458,157)   | (\$478,957)   | (\$499,953)   | (\$521,148)   | (\$542,542)   | (\$557,820)   |
| Utilities                               | (\$8,234)     | (\$8,481)     | (\$8,735)     | (\$8,998)     | (\$9,267)     | (\$9,545)     | (\$9,832)     | (\$10,127)    | (\$10,431)    | (\$10,744)    | (\$11,066)    | (\$11,398)    |
| Contract Services                       | (\$244,434)   | (\$172,740)   | (\$177,923)   | (\$183,260)   | (\$188,758)   | (\$194,421)   | (\$200,253)   | (\$206,261)   | (\$212,449)   | (\$218,822)   | (\$225,387)   | (\$232,149)   |
| Equipment Lease and Rentals             | (\$9,222)     | (\$9,499)     | (\$9,784)     | (\$10,077)    | (\$10,379)    | (\$10,691)    | (\$11,012)    | (\$11,342)    | (\$11,682)    | (\$12,033)    | (\$12,394)    | (\$12,765)    |
| Insurance                               | (\$45,707)    | (\$47,078)    | (\$48,491)    | (\$49,945)    | (\$51,444)    | (\$52,987)    | (\$54,577)    | (\$56,214)    | (\$57,900)    | (\$59,637)    | (\$61,426)    | (\$63,269)    |
| Changes in Lieu of Property Tax         | (\$29,316)    | (\$30,195)    | (\$31,101)    | (\$32,034)    | (\$32,995)    | (\$33,985)    | (\$35,005)    | (\$36,055)    | (\$37,137)    | (\$38,251)    | (\$39,398)    | (\$40,580)    |
| Miscellaneous                           | (\$54,934)    | (\$56,582)    | (\$58,279)    | (\$60,028)    | (\$61,829)    | (\$63,684)    | (\$65,594)    | (\$67,562)    | (\$69,589)    | (\$71,676)    | (\$73,827)    | (\$76,042)    |
| Total Operating Expense                 | (\$1,570,544) | (\$1,577,195) | (\$1,652,435) | (\$1,717,025) | (\$1,779,972) | (\$1,841,266) | (\$1,903,982) | (\$1,968,156) | (\$2,033,828) | (\$2,101,039) | (\$2,169,830) | (\$2,233,926) |
| Net Operating Income (Loss)             | \$1,600,071   | \$1,609,426   | \$1,912,737   | \$2,108,980   | \$2,278,877   | \$2,422,000   | \$2,565,645   | \$2,709,789   | \$2,854,408   | \$2,999,475   | \$3,144,962   | \$3,233,977   |
| Total Non Operating Revenue             | \$14,869      | \$15,018      | \$15,168      | \$15,320      | \$15,473      | \$15,627      | \$15,784      | \$15,942      | \$16,101      | \$16,262      | \$16,425      | \$16,589      |
| Total Revenue Available for DS          | \$1,614,940   | \$1,624,443   | \$1,927,905   | \$2,124,299   | \$2,294,350   | \$2,437,627   | \$2,581,429   | \$2,725,731   | \$2,870,509   | \$3,015,737   | \$3,161,387   | \$3,250,566   |
| Debt Service<br>1994                    |               |               |               |               |               |               |               |               |               |               |               |               |
|   | (60/7.010)    | (#075 000)    | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| 2005A<br>2005B                          | (\$267,218)   | (\$275,229)   | -             | -             | -             | -             |               | -             | -             | -             | -             | -             |
| 2008                                    | -             | ·             | -             | -             | -             | -             | •             | -             | -             | -             | -             | -             |
| 2010                                    | •             | ·             | -             | -             | -             | -             | -             | -             | -             | -             | =             | -             |
| 2013 Refunding of 2005A                 | (\$178,747)   | (\$179,189)   | (\$454,429)   | (\$455.011)   | (\$479,606)   | (\$463,029)   | (\$454,577)   | (\$454.075)   | (\$454,054)   | (\$454.829)   | (\$454,723)   | (\$455,074)   |
| Proposed: Series 2016                   | (\$170,747)   | (\$177,107)   | (3434,427)    | (\$433,011)   | (\$477,000)   | (\$403,027)   | (\$434,377)   | (\$434,073)   | (\$434,034)   | (9434,027)    | (3434,723)    | (9433,074)    |
| Proposed: Series 2020                   |               |               |               |               |               |               |               |               |               |               |               |               |
| Total DS                                | (\$445,964)   | (\$454,418)   | (\$454,429)   | (\$455,011)   | (\$479,606)   | (\$463,029)   | (\$454,577)   | (\$454,075)   | (\$454,054)   | (\$454,829)   | (\$454,723)   | (\$455,074)   |
| Total Revenue Available for CIP         | \$1,168,976   | \$1,170,025   | \$1,473,476   | \$1,669,288   | \$1,814,744   | \$1,974,598   | \$2,126,851   | \$2,271,656   | \$2,416,455   | \$2,560,907   | \$2,706,664   | \$2,795,492   |
| Total CIP                               | \$1,100,770   | (\$1,211,076) | (\$1,403,625) | (\$1,580,771) | (\$1,751,754) | (\$1,907,334) | (\$2.058.293) | (\$2,209,252) | (\$2,348,657) | (\$2,480,361) | (\$2,618,226) | (\$2,751,470) |
| Proposed: Series 2016 Proceeds          |               | (91,211,070)  | (#1,403,023)  | (\$1,300,771) | (#1,751,754)  | (41,707,334)  | (42,030,273)  | (42,207,232)  | (42,340,037)  | (42,400,301)  | (42,010,220)  | (#2,731,470)  |
| Proposed: Series 2020 Proceeds          |               |               | -             | _             | -             | -             |               | -             | _             | _             | -             | -             |
| Total Bond Proceeds                     |               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Net Income (Loss) Before Transfers      |               | (\$41,051)    | \$69,851      | \$88,517      | \$62,990      | \$67,264      | \$68,558      | \$62,404      | \$67,798      | \$80,546      | \$88,438      | \$44,022      |
| Contributions from Developers           |               | \$50,000      | \$50,500      | \$51,005      | \$51,515      | \$52,030      | \$52,551      | \$53,076      | \$53,607      | \$54,143      | \$54,684      | \$55,231      |
| Contributions from Government Funds     |               |               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Transfers In                            |               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Transfers Out                           |               | (\$139,390)   | (\$140,784)   | (\$142,191)   | (\$143,613)   | (\$145,049)   | (\$146,500)   | (\$147,965)   | (\$149,445)   | (\$150,939)   | (\$152,448)   | (\$153,973)   |
| Change in Net Position                  |               | (\$130,441)   | (\$20,433)    | (\$2,669)     | (\$29,108)    | (\$25,755)    | (\$25,391)    | (\$32,485)    | (\$28,040)    | (\$16,250)    | (\$9,326)     | (\$54,720)    |
| Beginning Cash Balance                  |               | \$2,309,373   | \$2,178,932   | \$2,158,500   | \$2,155,831   | \$2,126,722   | \$2,100,967   | \$2,075,576   | \$2,043,091   | \$2,015,051   | \$1,998,801   | \$1,989,476   |
| Ending Fund Balance                     |               | \$2,178,932   | \$2,158,500   | \$2,155,831   | \$2,126,722   | \$2,100,967   | \$2,075,576   | \$2,043,091   | \$2,015,051   | \$1,998,801   | \$1,989,476   | \$1,934,755   |
| General Fund Restricted (Bond Proceeds) |               |               | -             | -             |               |               |               |               | -             | -             | -             |               |
| Unrestricted                            | \$2,309,373   | \$2,178,932   | \$2,158,500   | \$2,155,831   | \$2,126,722   | \$2,100,967   | \$2,075,576   | \$2,043,091   | \$2,015,051   | \$1,998,801   | \$1,989,476   | \$1,934,755   |
|   |               |               |               |               |               |               |               |               |               |               |               |               |
| Unrestricted Days of Working Capital    | 529           | 497           | 470           | 452           | 430           | 411           | 392           | 374           | 357           | 342           | 330           | 312           |
| Coverage Ratio (w/Impact Fees)          |               | 3.54          | 4.21          | 4.64          | 4.75          | 5.23          | 5.64          | 5.97          | 6.29          | 6.59          | 6.92          | 7.11          |
| Coverage Ratio (w/o Impact Fees)        |               | 3.54          | 4.21          | 4.64          | 4.75          | 5.23          | 5.64          | 5.97          | 6.29          | 6.59          | 6.92          | 7.11          |
|   |               |               |               |               |               |               |               |               |               |               |               |               |