AMENDED CITY COUNCIL MEETING AND PUBLIC HEARINGS

Tuesday, June 5, 2012 7:00 p.m. Community Recreation Center 10640 N Club House Drive, Cedar Hills, Utah

This meeting may be held electronically via telephone to permit one or more of the council members to participate.

NOTICE is hereby given that the City Council of the City of Cedar Hills, Utah, will hold public hearings in connection with their Regular City Council Meeting on Tuesday, June 5, 2012, beginning at 7:00 p.m.

COUNCIL MEETING

- 1. Call to Order, Invocation and Pledge
- 2. Public Comment: Time has been set aside for the public to express their ideas, concerns, and comments (comments limited to 3 minutes per person with a total of 30 minutes for this item)

CONSENT AGENDA

- 3. Minutes from the April 3, 2012, City Council Meeting and Public Hearings; May 1, 2012 City Council Meeting and Public Hearings; May 8, 2012 Special City Council Meeting; May 15, 2012 Town Hall Meeting and City Council Meeting
- 4. Reaffirm Resolution 05-15-2012A, A Resolution Indicating the Intent of the City Council of the City of Cedar Hills, Utah, to Adjust the Common Boundary with Pleasant Grove City, Utah; Authorizing a Public Hearing Thereon and Providing for Notice of Said Hearing

CITY REPORTS

- 5. City Manager
- 6. Mayor and Council

SCHEDULED ITEMS AND PUBLIC HEARINGS

- 7. Review/Action on Acceptance of Agreed-Upon Procedures Engagement/Audit by Squire & Company
- 8. Review/Action on Approval of Final Utility Rate Study
- 9. Public Hearing on a Resolution Adopting the Fiscal Year 2013 Budget (July 1, 2012 to June 30, 2013)
- 10. Review/Action on a Resolution Adopting the Fiscal Year 2013 Budget (July 1, 2012 to June 30, 2013)
- 11. Release of Durability Bond for Walmart
- 12. Discussion on Completion of the Community Recreation Center Basement
- 13. Discussion on a Civic Center Preliminary Study and Analysis
- 14. Goals and Focus for City Council and Staff

EXECUTIVE SESSION

- 15. Motion to go into Executive Session, Pursuant to Utah State Code 52-4-204 and 52-4-205 * * * EXECUTIVE SESSION * * *
- 16. Motion to Adjourn Executive Session and Reconvene City Council Meeting

ADJOURNMENT

17. Adjourn

Posted this 1st day of June, 2012.

Gretchen F. Gordon, Deputy City Recorder

- Supporting documentation for this agenda is posted on the City's Web Site at www.cedarhills.org.
- In accordance with the Americans with Disabilities Act, the City of Cedar Hills will make reasonable accommodations to participate in the meeting.
 Requests for assistance can be made by contacting the City Recorder at 801-785-9668 at least 48 hours in advance of the meeting to be held.
- The order of agenda items may change to accommodate the needs of the City Council, the staff, and the public.



| TO: Mayor Richardson & City Council | |
|-------------------------------------|-----------------------------------|
| FROM: | David Bunker, Acting City Manager |
| DATE: | 5/30/2012 |

To approve the agreed-upon procedures engagement report.

City Council Memorandum

| DATE: | 5/30/2012 | | Memoraradin | | |
|---|---------------|---------------------------|-------------|--|--|
| | | | | | |
| SUBJECT: | | Agreed-Upon Procedures Er | ngagement | | |
| APPLICANT | PRESENTATION: | Dwayne Asay, Squire & Con | npany | | |
| STAFF PRESE | NTATION: | Chandler Goodwin, Finance | e Analyst | | |
| BACKGROUND AND FINDINGS: Pursuant to City Council direction, Squire & Company has completed the agreed-upon procedures engagement. Dwayne Asay, CPA is the engagement partner and will present their report at the meeting. PREVIOUS LEGISLATIVE ACTION: | | | | | |
| FISCAL IMPA | ACT: | | | | |
| SUPPORTING DOCUMENTS: List of agreed-upon procedures | | | | | |
| RECOMMENDATION: To review and approve the agreed-upon procedures engagement report. | | | | | |
| MOTION: | | | | | |

Agreed Upon Procedures

- 1. Review all credit card charges initiated by the Mayor. Ensure each charge has proper supporting documentation (receipts). Obtain all credit card statements and agree to supporting documentation. Report any exceptions (credit card charge does not have supporting documentation or credit card statements report a charge and no supporting documentation exists).
- 2. Confirm all depository accounts with financial institutions to ensure that all depository accounts are included on the City's books. Verify signatory authority on all depository accounts. Test a sample of bank transfers to ensure that all funds are properly transferred among City depository accounts. Report any exceptions (depository accounts exist but are not included on the City's books or bank transfers are made to unknown accounts).
- 3. Obtain the City's documented internal control processes regarding the purchase and cash disbursement cycle. Obtain the City's documented procurement policies. Review the internal control and procurement policies to ensure that controls and procedures are adequately designed for each of the years ended June 30, 2010 and 2011, and through the date of our procedures (May 22, 2012). Test a sample of 450 disbursements to ensure that disbursements are made in accordance with documented procurement policies and follow the City's documented internal control procedures. Report any exceptions to documented procurement policies and internal control procedures.
- 4. Review the accounting and other supporting documentation regarding the use of impact fees to construct recreation facilities and the related transfer of these expenditures to the City's Golf Course Fund during the year ended June 30, 2011. Obtain City Council minutes regarding the Council's approval and intent regarding the use of impact fees. Review documentation supporting construction costs to ensure costs are related to the construction of approved facilities. Obtain General Ledger detail regarding the transfer of these costs from the City's Capital Projects Fund to the Golf Fund. Report any exceptions regarding the expenditures incurred and the related accounting for these transactions.

| TO: Mayor Richardson & City Council | |
|-------------------------------------|-----------------------------------|
| FROM: | David Bunker, Acting City Manager |
| DATE: | 5/30/2012 |

City Council Memorandum

| DAIE: | 5/30/2012 | |
|--|---|---|
| | | |
| SUBJECT: | | Utility Rate Study |
| APPLICANT | PRESENTATION: | |
| STAFF PRESENTATION: | | Chandler Goodwin, Finance Analyst |
| | | |
| pressurize City utilit have oc year and | ed irrigation, sew y rates based on curred since the d presents a long | suthorized Bowen, Collins & Associates to update its culinary water, yer, and storm water rates. The purpose of this study was to update a changes in demand patterns and system revenue requirements that last study. The rate study includes detailed rates for the next fiscal per term finance plan to achieve the City's objectives. |
| PREVIOUS L | EGISLATIVE ACTION | ON: |
| FISCAL IMP | ACT: | |
| SUPPORTING | DOCUMENTS: | |
| Cedar H | ills City Utility Rat | e Study (May 2012) |
| RECOMMEN | NDATION: | |
| To appro | ove the 2012 utilit | ty rate study. |
| MOTION: | | |
| To appro | ove the 2012 utilit | ty rate study. |

CEDAR HILLS CITY UTILITY RATE STUDY

PREPARED FOR:

CEDAR HILLS CITY



PREPARED BY:

BOWEN, COLLINS & ASSOCIATES 154 EAST 14000 SOUTH DRAPER, UTAH 84020



MAY 2012

CEDAR HILLS CITY UTILITY RATE STUDY



May 2012

Prepared by:

Bowen, Collins & Associates 154 E. 14000 S. Draper, Utah 84020

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SECTION 1 PROJECTED REVENUE NEEDS

INTRODUCTION

Cedar Hills City authorized Bowen, Collins & Associates (BC&A) to update its culinary water, pressurized irrigation, sewer, and storm rates in March of 2012. The purpose of this study is to update City utility rates based on changes in demand patterns and system revenue requirements that have occurred since the last study. The rate study will calculate detailed rates for the next five years and present a longer-term finance plan to achieve the City's primary objectives of:

- Maintaining high quality, reliable water, pressurized irrigation, sewer, and storm drain services at affordable prices for customers;
- Encouraging wise use of resources through water conservation;
- Maintaining stable revenue generation adequate to fund system needs; and
- Minimizing the City's long-term costs by avoiding debt where possible.

Implementing the recommendations contained in this report will help Cedar Hills City keep its utility systems adequately funded to maintain its current infrastructure and keep pace with its currently approved capital improvements plans. The report will first examine water rates, followed by secondary water rates, sanitary sewer rates, and storm drain rates.

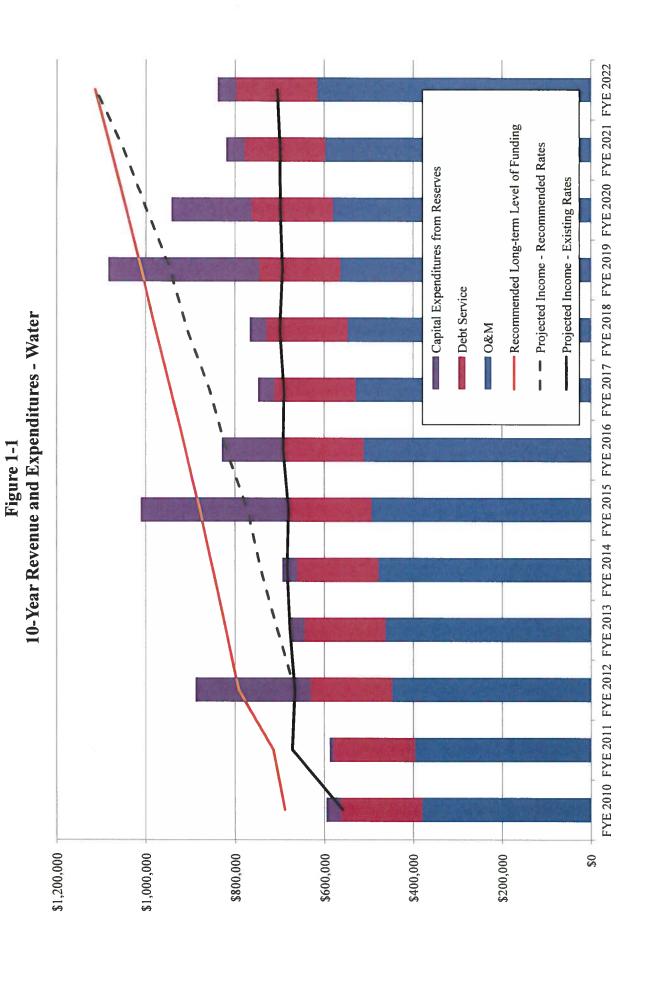
PROJECTED REVENUE NEEDS

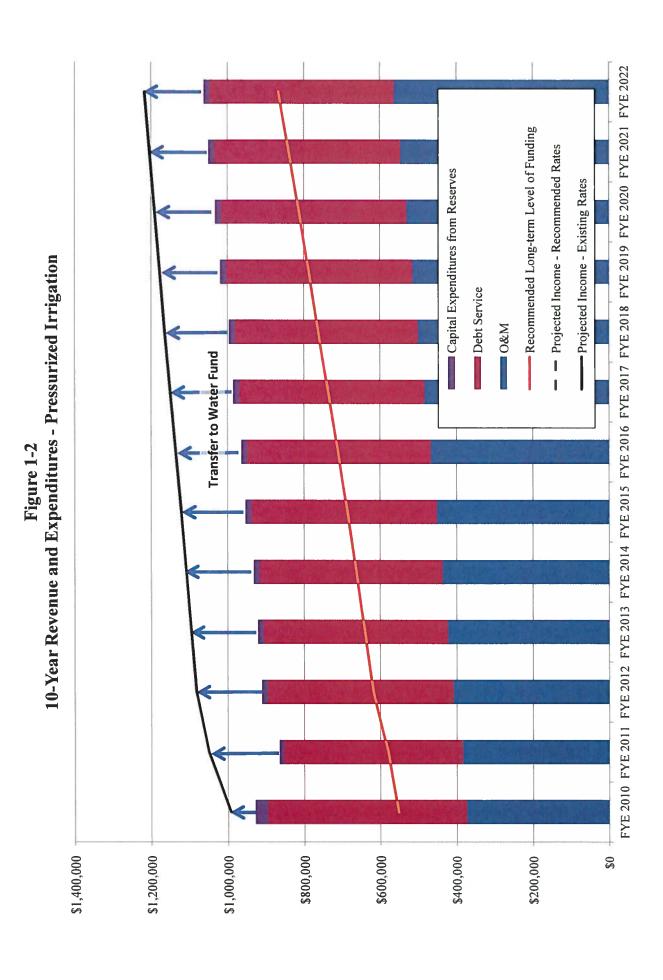
Before calculating detailed rates for individual customer classes, it is important to consider the overall plan for meeting the future revenue needs of the City. The first step in this process is to project future expenditures. Historic and projected expenditures for the City from 2010 through 2022 are shown in Figures 1-1 through 1-5 as follows:

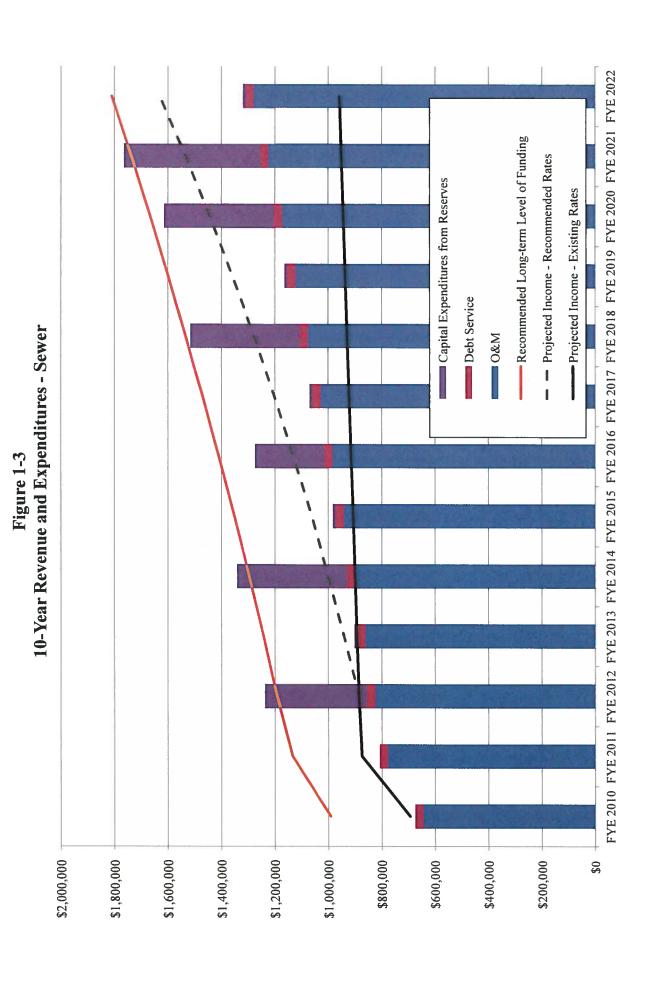
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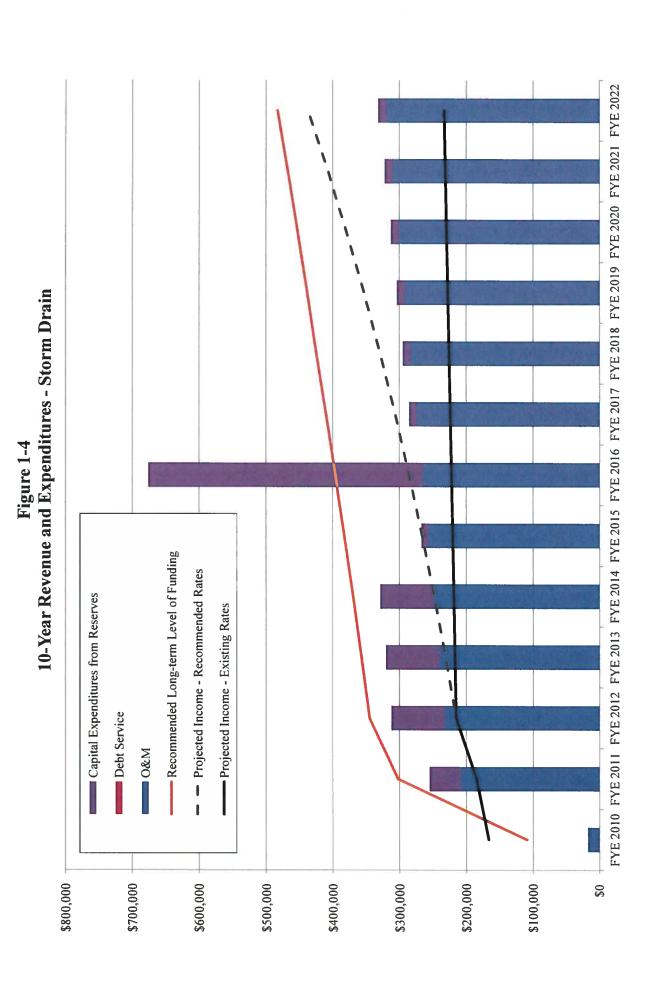
Tables containing the values used to generate these figures are contained in Appendices A-D. Future expenditures can be grouped into three categories:

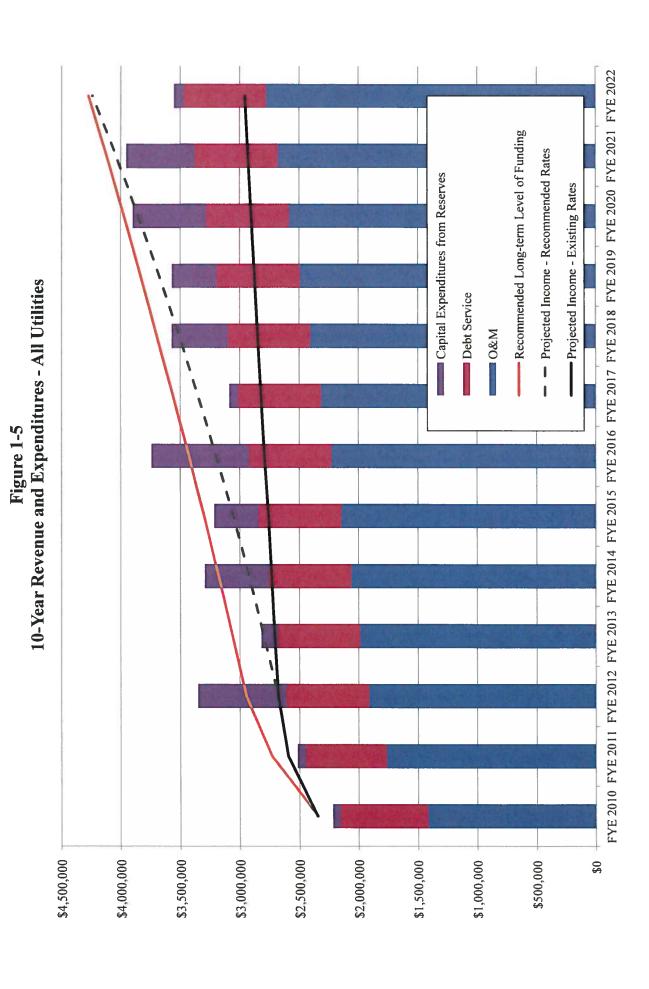
• Operation and Maintenance Expenditures – These are the annual costs of running the system. They include items such as salary and benefit costs for City staff, equipment and supplies, power costs, and all other costs associated with doing business throughout the year. Operation and maintenance (O&M) costs are relatively constant from year to year











and tend to follow the rate of inflation. Some of the largest O&M costs are utility costs, supplementary water purchase costs for the secondary irrigation system, and sewage treatment costs from the Timpanogos Special Services District (TSSD). While TSSD has increased rates significantly in recent years, similarly dramatic rate increases are not expected to occur in the near future. Historically, O&M costs for the City for the culinary and secondary systems have been combined in the same water expenditures category. For this study, expenditures that are spent on both culinary and secondary systems have been assigned 60 percent to culinary water and 40 percent to pressurized irrigation.

- **Debt Service Expenditures** These are the costs paid toward bonds taken out by the City in previous years. These costs are easily predictable because they are tied to set payment schedules for each bond. The City issued two bonds to fund the recently implemented pressurized irrigation system. These PI bonds constitute the largest debt service expenditures for the City.
- Capital Improvement Expenditures These are costs for constructing new facilities within the City. This can include completely new facilities or replacement of existing facilities. Capital improvement expenditures are usually the most volatile of expenditure categories. Because O&M and debt service costs are basically fixed, budgets are usually balanced by increasing or decreasing capital improvement expenditures as necessary. While some fluctuation in the funding of capital improvements is acceptable from year to year, the overall health of each utility will depend on adequately funding this portion of the budget over the long term.

10-YEAR BUDGET PLAN

With the expected expenditures outlined above, it is possible to prepare a future budget plan. A budget plan has been developed for culinary water, pressurized irrigation, sewer, and storm drain utilities and is shown on top of projected expenditures in Figures 1-1 through 1-5. The process of creating this budget plan was as follows:

1. Identify projected revenue based on existing water, pressurized irrigation, sewer, and storm drain rates – Using the City's existing water, pressurized irrigation, sewer, and storm drain rates, BC&A calculated the revenue the City could expect to receive over the next 10 years if no changes are made to existing rates. These projections include consideration of future system growth. As can be seen in Figures 1-1 through 1-5, projected revenue based on existing rates falls short of projected expenditures in all categories except pressurized irrigation. Because the pressurized irrigation system and culinary water system have historically been funded from the same budget, the surplus revenue from the pressurized irrigation system has been transferred to the culinary water budget. This effectively increases the projected income for the culinary water as shown in Figure 1-1, even with the transfer of excess funds from the pressurized irrigation system.

- 2. Identify recommended level of funding based on long-term system needs As with most things, each component of a water, pressurized irrigation, sewer, and storm drain system has a finite service life. As such, it is necessary to continually budget money for the rehabilitation or replacement of these system components. If adequate funds are not set aside for regular system renewal, the system will fall into disrepair and be incapable of providing the level of service customers in the City expect. To maintain the utility in good operating condition, it is recommended that the City's annual investment into the system (including debt service costs and capital improvements) be approximately equal to the replacement value of the system divided by its estimated service life.
 - Water System The estimated replacement value of the City's culinary water system is \$34.5 million. This estimate includes the value of City pipelines, pump stations, wells, and storage reservoirs. The service life for water facilities can vary greatly depending on the type of facility it is and the conditions in which it serves. Some facilities such as the mechanical equipment at pump stations may last as little as 10 years. Conversely, pipelines typically have an expected life of 60 to 100 years. Because Cedar Hills is a relatively young City with new infrastructure, the recommended funding level for capital improvements has been estimated based on 1 percent of system value. This equates to a 100-year system life, the very high end of expected life for water facilities. Based on this value, BC&A would recommend the City budget approximately \$345,000 per year for capital investment in its water system.
 - Pressurized Irrigation System The estimated replacement value of the City's pressurized irrigation system is \$21 million. Following the same logic as outlined for the culinary water system, it is recommended that the City budget \$210,000 per year for capital investment in its pressurized irrigation system.
 - Sewer System The estimated replacement value of the City's sewer system is \$49 million. Sewer systems generally have a longer expected life span than water systems. Based on their longer life span and greater opportunities for insitu rehabilitation, the level of capital funding recommended by BC&A is slightly less than for pressurized water systems. We would recommend the City budget approximately 0.75 percent of replacement costs (\$367,500) per year for capital investment in its sewer system.
 - Storm Drain System The estimated replacement value of the City's sewer system is \$15 million. Following the same logic as outlined for the sewer system, it is recommended that the City budget \$112,500 per year for capital investment in its pressurized irrigation system.

The recommended system investment budgets identified above were added to the City's projected O&M costs to estimate a recommended long-term level of funding based on system needs. This projected funding level is shown in Figures 1-1 through 1-5. As can been seen in the figures, the City's historic level of investment in the system falls just short of the long-term recommendations for all utilities except pressurized irrigation. However, this gap will become larger and larger in future years unless increases to existing rates are made.

- For pressurized irrigation, the projected level of investment is above the long-term recommendation. However, this is the result of required payments towards the City's existing pressurized irrigation bonds and will need to continue until the debt is retired.
- 3. Create a plan to transition from existing revenue to revenue adequate to support long-term system needs To close the gap between projected revenue from existing rates and recommended revenue for long-term system needs, it is recommended that existing rates be increased over the next several years for all utilities except pressurized irrigation. In addition, it is in the best interest of the City to implement rate adjustments that also keep pace with inflation. To minimize the pain for customers, especially under the difficult current economic conditions, it is recommended that this increase be completed gradually over several years as shown in Figures 1-1 through 1-5. To generate the revenue shown in the budget plan in the figures, annual increases to existing rates (for water, sewer, and storm drain systems) will need to be as shown in Table 1-1. It is recommended that existing rates for the pressurized irrigation system be left unchanged.

Table 1-1
Recommended Annual Rate Revenue Increase for 10-Year Budget Plan

| Year | Culinary Water Percent Increase | Sewer Percent Increase | Storm Drain Percent Increase | Total Utility Increase |
|------|---------------------------------|------------------------------|------------------------------|------------------------------|
| 2013 | 6.4% | 5.5% | 6.5% | 3.7% |
| 2014 | 6.4% | 5.5% | 6.5% | 3.7% |
| 2015 | 6.4% | 5.5% | 6.5% | 3.8% |
| 2016 | 6.4% | 5.5% | 6.5% | 3.9% |
| 2017 | 6.4% | 5.5% | 6.5% | 4.0% |
| 2018 | 6.4% | 5.5% | 6.5% | 4.1% |
| 2019 | 6.4% | 5.5% | 6.5% | 4.1% |
| 2020 | 6.4% | 5.5% | 6.5% | 4.2% |
| 2021 | 6.4% | 5.5% | 6.5% | 4.3% |
| 2022 | 6.4% | 5.5% | 6.5% | 4.3% |

*Note: No increase proposed for pressurized irrigation

It will be noted that the proposed increases don't completely eliminate the deficit between revenue and the recommended long-term level of funding for sewer and storm drain. However, the recommended increases do narrow the gap and are adequate to fund the current capital improvement plans of the City.

4. Verify City reserve funds are adequate to cover interim cash flow needs — The City has prepared capital improvement plans for its utility systems based on the results of master planning efforts and knowledge of City staff. While the overall plan generates adequate revenue to fund these improvements over the 10-year planning window, there will be some early years in which the overall budget will need to be augmented from reserve funds. Based on the current plan, the City will need to draw approximately \$1.1 million from reserve funds to cover expenditures in the first four years of the plan before it is paid back in later years. It is recommended that the City verify it has adequate reserve funds to cover this need.

SECTION 2 WATER RATE ANALYSIS

In Section 1, a 10-year budget plan was developed for the culinary water, pressurized irrigation, sewer, and storm drain systems. Based on this overall budget plan, detailed rates can now be calculated for each utility. The purpose of this chapter is to calculate detailed culinary water rates for the next 6 years based on the overall budget plan.

This analysis focuses on four major tasks:

- 1. **Projecting Water Use:** Future water sales were estimated by examining current use patterns and by projecting water system growth for the next several years.
- 2. Calculating Revenue Requirements: Total revenue requirements for the system were projected for the next several years based on the budget plan outlined in Section 1. Non-rate revenue (including impact fee revenue) was deducted from the total to give the net revenue requirement to be recovered from rate payers.
- 3. Cost Allocation: This analysis generally follows the basic cost-of-service approach recommended by the American Water Works Association (AWWA). The essential principle of this method is that "water rates and charges should be recovered from classes of customers in proportion to the cost of serving those customers." To accomplish this goal, the system revenue requirements were allocated to four customer service characteristics: average day demand, peak day demand, billing & collection, and meters & services.
- 4. Rate Design: Rates were calculated to recover the allocated cost of service for each customer service characteristic based on a given rate structure.

The remainder of this report details the results of each of these four major tasks. Detailed rate tables from the model used to develop the rate recommendations are located in Appendix A.

KEY ASSUMPTIONS

The results presented in this report are based on the following assumptions:

- 1. The Culinary Water Fund will continue to be a self-funding, enterprise-type fund.
- 2. Customers will continue to be billed using the City's existing customer classes: Residential (including HOA accounts), Commercial, and Institutional (churches & schools).
- 3. The study follows the basic recommended methodologies of AWWA in developing costof-service water rate options for consideration by Cedar Hills City. Only the "cash basis" approach has been used to allocate costs to users. The "cash basis" study methodology is summarized later in this report.

¹American Water Works Association. Principles of Water Rates, Fees, and Charges: Manual M1. 2000.
²Ibid, p. xix.

- 4. The City's current rate structure does not include a water allowance in the monthly base charge. It has been assumed this practice will continue.
- 5. This rate study is based on projections of future water demands and projected system operation, maintenance, and improvement costs. These projections are based on current economic conditions and weather patterns over the last several years. Because conditions may change over time, it is recommended that Cedar Hills City review the rates annually to determine if any adjustments are needed. It is also recommended that a comprehensive review and updating of water rates be undertaken in three to five years so that the basic analytical foundations of this study can be re-evaluated.

PROJECTING WATER USE

Historical Water Use

Cedar Hills City provides water service to almost 2,400 accounts, as summarized in Table 2-1. The residential customer class is the largest customer class, accounting for 99 percent of the accounts and over 93 percent of the total water use. As fiscal year 2012 has not yet ended, water use for 2012 was estimated by using the historic water use for fiscal year ending 2011. The 2012 usage estimates in Table 2-1 include an increase in residential use proportional to the increase in number of accounts due to the City's acquiring 128 new culinary connections from the dissolution of Manila Water in December 2011. In addition, it is assumed that Cedar Ridge Elementary school will connect to the pressurized irrigation system, which will decrease the summertime culinary usage for the institutional customer class.

Table 2-1
2012 Estimated Account and Water Use Summary

| Customer Class | Annual Use (kgal) | Accounts | Average Use per Account (kgal/month) |
|----------------|----------------------|----------|--|
| Residential | 172,383 | 2,349 | 6.1 |
| Commercial | 5,453 | 7 | 64.9 |
| Institutional | 2,682 | 9 | 24.8 |
| Total | 180,518 | 2,365 | 6.4 |

Note: Number of accounts based on January 1, 2012. Annual use based on metered use July 1, 2010 to July 1, 2011 for commercial & institutional classes, with an estimated increase for the residential customer class proportional to the number of accounts added from Manila Water.

Projected Accounts

Cedar Hills City has historically seen a wide range of growth rates depending on economic conditions in the area. Current projections available from the City estimate annual growth of between 0.75 to 0.83 percent over the next 6 years. These projections are somewhat conservative and take into account the current ongoing economic downturn. Per the City's projections, it has been assumed that 18 annual residential accounts will be added through 2015

and 20 annual accounts added through 2020. Projected growth rates and accounts by customer type are summarized in Table 2-2.

Table 2-2
Projected Growth in System Accounts

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|------------------|----------|----------|----------|----------|----------|----------|
| Customer Class | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | 2,367 | 2,385 | 2,403 | 2,423 | 2,443 | 2,463 |
| Commercial | 7 | 7 | 7 | 7 | 7 | 7 |
| Institutional | 9 | 9 | 9 | 9 | 9 | 9 |
| Total | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |
| Additional | | | | | | |
| Connections/Year | 18 | 18 | 18 | 20 | 20 | 20 |

Projected Water Use

Future water demands were projected by multiplying the estimated average use per account in 2012 from Table 2-1 by the projected number of accounts in Table 2-2. Using this methodology, the projected growth in total volume of water sold is shown in Table 2-3.

Table 2-3
Projected Growth in Water Use

| | | | | Amoui | nt (kgal) | | ÷ |
|----------------|-------------------|----------|----------|----------|-----------|----------|----------|
| Customer Class | Average Use/Acct. | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 73.4 | 173,704 | 175,025 | 176,346 | 177,814 | 179,282 | 180,749 |
| Commercial | 779.0 | 5,453 | 5,453 | 5,453 | 5,453 | 5,453 | 5,453 |
| Institutional | 298.0 | 2,682 | 2,682 | 2,682 | 2,682 | 2,682 | 2,682 |
| Total | | 181,839 | 183,160 | 184,481 | 185,949 | 187,417 | 188,884 |

Peaking Characteristics

The peak month peaking factor is the ratio of the peak month rate of flow divided by the average month rate of flow. Typically, peaking factors are used to project peak demands for each customer class so that the cost of serving those peak demands can be estimated. For simplicity and for ease of implementation, the City has indicated a desire to continue to bill all customer classes at the same rate. Therefore, the system-wide peaking factor of 1.18 is used for all customer classes in this study.

Demands by Water Use Block

Cedar Hills City currently uses an increasing block rate for all customers. Table 2-4 summarizes the City's current block structure and the historic use by block. As can be seen in the table, over 83 percent of total water use was in the lowest block. This is not unexpected since the average

residential indoor water use per account is only 6,100 gallons per month, while the first block division point is at 10,000 gallons.

In addition, it can be seen in Table 2-4 that a higher percentage of total water use was in the highest block than in the second and third blocks combined. This is likely an indication that some large commercial and industrial users use most of their water in the highest block.

Table 2-4
FYE 2011 Block Water Use for All Customers

| Uj | Upper Block Limits (kgal) | | | 2 | 2011 Total U | Jse by Block | |
|------------|---------------------------|---------|---------|---------|--------------|--------------|---------|
| Block 1 | Block 2 | Block 3 | Block 4 | Block 1 | Block 2 | Block 3 | Block 4 |
| 10 | 12 | 18 | + | 144,254 | 6,223 | 6,390 | 16,456 |
| Percent To | tal Use | | | 83.2% | 3.6% | 3.7% | 9.5% |

Meters

Table 2-5 summarizes the number of existing meters in the Cedar Hills culinary water system by size. Meters range in size from 3/4-inch to 3-inch meters. Over 99 percent of the meters are 3/4-inch meters. Only 16 meters are 1-inch or larger, representing just 0.7 percent of the system. Table 2-5 also presents equivalent meter data based on AWWA meter cost-of-service criteria. The information in Table 2-5 is used to develop monthly base rates by meter size.

Table 2-5
Meters and Equivalent Meters by Size

| | Size (Inches) | | | | | | | 7.00 | | |
|-----------------------------|-----------------|------|-------|------|------|------|------|------|------|--------|
| | 3/4 and smaller | 1 | 1 1/2 | 2 | 3 | 4 | 6 | 8 | 10 | Total |
| Number of Meters | 2,349 | 5 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 2,365 |
| % of Total | 99.3% | 0.2% | 0.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| AWWA Equiv. Meter Ratios | 1.0 | 1.3 | 1.6 | 2.6 | 10.0 | 12.7 | 19.1 | 26.4 | 36.4 | |
| Equivalent Meters | 2,349 | 6 | 16 | 0 | 10 | 0 | 0 | 0 | 0 | 2,382 |
| % of Total | 98.6% | 0.3% | 0.7% | 0.0% | 0.4% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |

CALCULATING REVENUE REQUIREMENTS

There are two methods for determining a water utility's revenue requirements. One is called the Cash Basis of revenue requirements. The other method is called the Utility Basis of revenue requirements. The revenue requirements for each approach are summarized as follows.

Cash Basis Utility Basis

Operation and Maintenance Costs

Operation and Maintenance Cost

Plus: Debt Service Plus: Depreciation

Cash-Financed Capital Outlays Return on Investment Taxes (if applicable) Taxes (if applicable)

Net Additions to Reserves

Total Requirements

Less: Non-Rate Revenues

Less: Non-Rate Revenues

Equals: Net Requirements from Rates Equals: Net Requirements from Rates

The cash basis of revenue requirements is based on the actual cash expenditures of the system. Its goal is to make sure revenues match the cash needs of the system. In public utilities, this method generally matches the budgetary expenditures for the period. It has the additional advantage of being more understandable to most ratepayers and more directly meets any debt service coverage requirements that the system might need to comply with.

The utility basis approach simulates the financial requirements of private sector companies. It ensures that revenue requirements reflect the depreciation incurred by the system, as well as a return on the investment in rate base by system owners. In the municipal utility setting, the utility basis is most often used when there is significant utility service to customers outside the jurisdictional boundaries of the system owners, such as outside-city customers. It allows the system owners (i.e., inside-city customers) to earn a return from the investments to serve the outside-city customers. Because Cedar Hills City does not have significant outside-city users, rates for this study were developed under the cash basis only.

Impact Fee Revenue

The projected impact fee revenue for the next six years is estimated to increase from about \$30,000 a year to nearly \$34,000 a year as summarized in Table 2-6. The projected annual revenue from impact fees is based on the projected number of new accounts as discussed previously. For this analysis, it has been assumed that the City's future impact fee rates will be in accordance with the City's current impact fee plan. If the City updates or modifies its future impact fees, the rates calculated in this report will need to be adjusted accordingly.

Table 2-6
Projected Impact Fee Revenue

| Year | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Annual Growth Rate | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Projected Impact Fee Revenue | \$30,109 | \$30,109 | \$30,109 | \$33,455 | \$33,455 | \$33,455 |

Non-Rate Revenue

The projected non-rate revenue for the City is summarized in Table 2-7. This revenue is the net income from activities not associated with water sales or impact fees. It may include service charges, net interest income, fees, and tax revenue. For accounting purposes, the City separates this income into operating and non-operating revenue. It will be noted that there is a significant amount transferred into the culinary water fund from the pressurized irrigation system. As was mentioned in Section 1, the projected income from existing pressurized irrigation rates exceeds the estimated expenditures for the next 10 years. For the purpose of calculating rates, this surplus revenue has been transferred to the culinary water fund as non-rate revenue.

Table 2-7
Projected Non-Rate Revenue

| Item | Projected FYE 2013 | Projected FYE 2014 | Projected FYE 2015 | Projected FYE 2016 | Projected FYE 2017 | Projected FYE 2018 |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Item | FIE ZUIS | FYE ZUI4 | FYE 2015 | FYE ZUIO | FYE ZUI/ | FYE ZUIO |
| Operating | | | | | | |
| Water Fees - American | | | | | | |
| Fork City | \$18,677 | \$19,379 | \$20,106 | \$20,876 | \$21,675 | \$22,501 |
| Water Fees - Contractors | \$2,179 | \$2,261 | \$2,346 | \$2,436 | \$2,529 | \$2,625 |
| Transfer from Pl | \$173,477 | \$175,380 | \$168,062 | \$171,885 | \$165,233 | \$169,001 |
| Total Operating Non-Rate | | | | | | - |
| Revenue | \$194,333 | \$197,019 | \$190,513 | \$195,196 | \$189,437 | \$194,127 |
| Non-Operating | | | | | | |
| Connection Fees | \$30,109 | \$30,109 | \$30,109 | \$33,455 | \$33,455 | \$33,455 |
| Water Lateral Inspections | \$1,058 | \$1,066 | \$1,074 | \$1,083 | \$1,092 | \$1,101 |
| Water Meters | \$7,523 | \$7,805 | \$8,098 | \$8,408 | \$8,730 | \$9,063 |
| Total Non-Operating Non- | | | | | | |
| Rate Revenue | \$38,690 | \$38,981 | \$39,282 | \$42,946 | \$43,277 | \$43,619 |
| Total Non-Rate Revenue | \$233,023 | \$236,000 | \$229,795 | \$238,143 | \$232,714 | \$237,746 |

City Expenditures

The projected City expenditures for the planning period are summarized in Table 2-8. Included in the table are the projected total costs for the three major categories of expenditures: operations and maintenance, debt service, and capital expenditures. Each of these categories is discussed in more detail in following sections.

Table 2-8
Projected Revenue Requirements

| Executable Control of the Control of | FYE | FYE | FYE | FYE | FYE | FYE |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Item | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| O&M | \$462,150 | \$477,771 | \$493,895 | \$510,762 | \$528,204 | \$546,190 |
| Debt Services | \$182,086 | \$183,364 | \$183,501 | \$183,054 | \$182,995 | \$182,322 |
| Capital (Net of | | | | | | |
| bond revenue) | \$60,510 | \$80,570 | \$94,502 | \$125,894 | \$145,376 | \$178,421 |
| Total | | | | | | |
| Expenditures | \$704,746 | \$741,705 | \$771,898 | \$819,710 | \$856,576 | \$906,933 |

Operation and Maintenance Costs. The projected operation and maintenance (O&M) costs for the City have been taken from the City's budget for 2012. Historically, O&M costs for the City for the culinary and pressurized irrigation systems have been combined in the same water expenditures category. For this study, expenditures that are spent on both culinary and secondary systems have been assigned 60 percent to culinary water and 40 percent to pressurized irrigation. A detailed list of all O&M budget categories is included as part of the rate model in Appendix A. Beyond 2012, it has been assumed that these O&M cost categories will increase at a rate equal to half the system growth rate in each year and an assumed inflation rate of 3.0 percent (e.g. budget growth in 2013 = 0.76%/2 + 3% = 3.38%).

Debt Service Costs. The projected debt service costs for the City have been taken from the City's bond payment schedule through 2018. As indicated by the City, one half of the 2006 Excise Tax Bond for the new Public Works Building is paid for from the water and sewer funds. For this study, this portion of the debt service was split in proportion to the total budget for these two funds; 60 percent for culinary water and 40 percent for sewer (e.g. 60%/2=30% of the 2006 bond is paid from the culinary water fund). A detailed list of all bond payments is included as part of the rate model in Appendix A.

Capital Improvement Costs. The projected capital improvement costs for the City have been taken from the City's 10-year capital improvement plan. A detailed list of all capital improvements is included as part of the rate model in Appendix A.

Included under the capital improvements budget is a section for the transfer of funds to or from the City's reserve fund. As noted in Chapter 1, the reserve fund is being used to smooth out total, overall capital expenditures in the City. In some years water revenue will be used to help pay for other system improvements and in other years, other revenues will help pay for water. With the City's philosophy of paying for improvements without bonding where possible, there will also be years in which excess funds are generated and added to the reserve, only to be drawn out in subsequent years for large projects. From a long-term perspective, there will be no net change in the reserve fund's overall size due to these transfers. City personnel have indicated that the reserve fund should be adequate for transfers of this magnitude.

COST ALLOCATIONS

A key step in a cost-of-service rate analysis is the allocation of costs to customer service characteristics. The allocation approach used in this rate update reflects the basic approaches recommended by the AWWA. The cost allocation method is the Base-Extra Capacity Method, which is one of the two methods specifically recognized by AWWA. Unlike the AWWA suggested approach, this update limits the analysis of peaking costs to peak day costs. It does not include peak hour costs as a customer service characteristic. This is because Cedar Hills City does not have any estimates of peak hour requirements. This variation is minor and does not materially affect the outcome of the analysis or the validity of the results. AWWA specifically recognizes that utilities' circumstances may justify changes from the AWWA methods, and this is one such variation.

Customer Service Characteristics

Customer service characteristics are demands or other "services" that each customer receives. Specifically, the customer service characteristics considered in this rate study include:

- average demand,
- peak day demand,
- billing & collection, and
- meters & services.

The first step in allocating costs is to divide each of the City's revenue requirements into these four categories. This has been done in the water rate model (see Tables 13 and 14 of Appendix A). In each case, these allocations are based on information provided by Cedar Hills City personnel, professional engineering judgment, and knowledge of system operations. Table 13 in Appendix A provides a division by customer service characteristics for O&M expenditures. Table 14 in Appendix A provides the same information for capital and bonding expenditures.

To understand how this has been done, it may be useful to consider a few examples. As one example, the majority of costs for distribution pipelines (60 percent) are attributed to average day demand. This basically represents the cost of maintaining pipes and valves in the ground to provide water to system users. However, the size of the pipelines in the system must be larger than would be required to convey average flow, because of daily and seasonal fluctuations in system flow. Thus, a portion of the distribution budget (15 percent) has been allocated to peak demand to account for the increased costs of maintaining a larger system. The remaining amount (25 percent) has been allocated to cover the costs of meters and service lines.

In contrast to the distribution pipelines, some O&M budget items such as computer expenses, office equipment, communications & telephone, and credit card fees are associated with working with individual customers. For these budget items, 100 percent is assigned to billing and collection. Each of the other revenue requirements has been divided among the customer service characteristic categories based on similar logic.

Using the percentages assigned to each budget category, the system revenue costs are distributed among the customer service characteristics. This is also shown in detail in the rate model. The total revenue requirement for each customer service characteristic is given in Table 16 of Appendix A. Table 17 of Appendix A shows the total cost allocation for each customer class.

RATE STRUCTURES

Water rates are commonly divided into two components: monthly base charges and volumetric charges. The monthly base charge is the amount charged to existing users to be connected to the system, regardless of the amount of water used. This is usually assessed based on meter size and may or may not include a monthly water allowance. Volumetric charges are those charges assessed based on the amount of water used by the customer.

Volumetric charges can be assessed using one of three general rate structures: uniform rates, seasonal rates, and block rates (both increasing and decreasing).

- Uniform Rates —A uniform rate structure charges the same for each gallon of water regardless of the amount of water used or time of year. Uniform rate structures are among the easiest rate structures to administer and understand. Unfortunately, they do little to encourage conservation.
- Seasonal Rates —A seasonal rate structure charges one rate during the winter and another rate during the summer. Generally, higher rates are charged during the summer months to account for the additional costs of producing water during times of peak demand. Seasonal rates have the advantage of being easy to understand and easy to implement. They also provide a financial incentive for users to conserve during the summer months. Unfortunately, they do little to encourage conservation during the winter months. They are most appropriate for systems without secondary service that have large summer peaking factors.
- Block Rates –Block rates charge different amounts for each gallon of water depending on the total amount of water metered each month. For example, the first 5,000 gallons of water sold during a month may be charged at one rate, while any water in excess of 5,000 gallons is charged at a different rate. Blocks can increase with the amount of water sold as well as decrease. Since decreasing blocks generally discourage conservation, they will not be discussed further. In contrast, increasing block rates have the greatest potential of all rate structures for encouraging conservation. The greatest challenge with increasing block rates is that they are difficult to implement and administer fairly. Although one set of blocks could be developed to encourage conservation among family residential users, this same set of blocks may unfairly penalize a large commercial user.

Any of the above rate structures could be used to develop reasonable, cost-based rates that could be implemented by Cedar Hills City. They all generate the same revenues and meet the basic standards established by AWWA for equitable, cost-of-service approaches for rate development. Additionally, any combination of the rate structures could be used to develop an acceptable pricing policy for Cedar Hills City. Therefore, within this set of rates, a recommendation for any individual rate structure is based only on differences in objectives or concepts among the

options. Based on the overall success the City has already had in achieving conservation and its other rate objectives, BC&A would recommend continuing to use an increasing block rate structure for the upcoming planning period.

CURRENT WATER RATE STRUCTURE

Table 2-9 shows the City's existing rate structure.

Table 2-9
Existing Culinary Water Rates

| | Rates |
|--------|--|
| | |
| \$6.00 | per month |
| \$1.25 | per 1,000 gal. |
| \$2.00 | per 1,000 gal. |
| \$2.50 | per 1,000 gal. |
| \$1.50 | per 1,000 gal. |
| | |
| \$6.00 | per month |
| \$1.25 | per 1,000 gal. |
| \$2.00 | per 1,000 gal. |
| \$3.00 | per 1,000 gal. |
| \$4.00 | per 1,000 gal. |
| | |
| \$6.00 | per month |
| \$2.00 | per 1,000 gal. |
| \$3.00 | per 1,000 gal. |
| \$4.00 | per 1,000 gal. |
| \$5.00 | per 1,000 gal. |
| | \$1.25 \$2.00 \$2.50 \$1.50 \$6.00 \$1.25 \$2.00 \$3.00 \$4.00 \$3.00 \$4.00 |

A couple of things should be noted about the City's existing rate structure:

- Monthly Base Rates The monthly base rate has historically been charged per equivalent residential unit (ERU). An ERU is a unit of measure to equate non-residential water usage to a specific number of equivalent residential households (e.g. a commercial user that uses three times the water of the average residential customer would be assigned an ERU value of 3). ERUs have historically been calculated based on past water use compared to average residential water use.
- Volume Rates The City currently has an increasing block rate structure with four blocks. This basic structure is currently used for all customers with access to the secondary system, regardless of whether the customer has connected to the secondary system. However, different block division points and different rate charges per 1,000 gallons are charged depending on whether the customer has connected to the secondary system. In addition, customers that do not have access to the City's pressurized irrigation

system also follow an increasing block rate structure, with exception of the highest block, which is billed at a rate significantly lower than the middle blocks.

Total projected revenues based on existing City water rates are shown in Table 2-10. It can be seen that the projected revenue from existing culinary water rates will become increasingly insufficient to meet revenue requirements in the coming years. As described in Section 1, BC&A would recommend an overall increase in sales revenue of approximately 6.4% per year over the planning period in order to meet revenue requirements.

Table 2-10
Projected Revenue Based on Existing Water Rates

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|----------------------------------|------------|------------|------------|-------------|-------------|-------------|
| Projected Revenue-Existing Rates | \$455,442 | \$458,791 | \$462,140 | \$465,862 | \$469,583 | \$473,305 |
| Projected Revenue Requirements | \$471,723 | \$505,705 | \$542,104 | \$581,567 | \$623,862 | \$669,188 |
| Projected Difference | (\$16,281) | (\$46,914) | (\$79,963) | (\$115,705) | (\$154,278) | (\$195,883) |

RECOMMENDED FUTURE RATES

Based on the overall success the City has already had using its existing rate structure, BC&A would recommend continuing to use an increasing block rate structure for the upcoming planning period. However, based on cost-of-service principles and standard industry practices, BC&A would recommend that a few minor modifications be made to the existing structure:

- Charge Monthly Base Rate By Meter Size The monthly base rate has historically been charged on a per ERU basis using historic water use to define an ERU. This approach has several disadvantages:
 - o It is cumbersome to administer because it requires the City to recalculate ERUs each year based on the water use from the previous year.
 - o It is inconsistent with AWWA cost-of-service principles because it essentially charges users twice for water use (once in the volumetric rates and again in the base rates through calculation of the ERU).
 - o It is difficult to understand and explain to users.

A more common method of calculating base rates is to use meter size. From a cost-of-service perspective, the base rate amount should be charged based on the capacity to use water, regardless of the amount of water used. This is well represented by meter size. BC&A would recommend charging a single base rate for each connection based on the industry-standard AWWA meter cost-of-service ratios for meter size. By doing so, the base rate and volumetric charges will be collecting revenue strictly for customer and volume service characteristics, respectively.

• Reduce Block 1 Division Point to 8,000 gallons/month – BC&A would recommend modifying the first block division point for 3/4-inch meters to gradually bring it closer to the average residential usage. To initiate this shift without dramatically impacting rate schedules, BC&A recommends lowering the first block division point from 10,000 gallons to 8,000 gallons. This will continue to encourage conservation amongst

residential customers by shifting some above-average usage into a higher block and will help make the volumetric charges more accurately cover the cost of providing water to various types of customers within Cedar Hills City. It should be noted that customers with access to PI but who chose not to connect currently have a Block 1 division point of 6,000 gallons. In conjunction with the recommended change in the Block 1 division point for all other customers, it is recommended that the Block 1 division point for those not connected to the PI system also be changed to 8,000 gallons. This only affects a small number of customers and will greatly simplify administration of the rates.

• Customize Block Sizes by Meter Size – As noted previously, the most difficult aspect of an increasing block rate structure is fairly establishing block division points for different sized customers. Currently, the City uses the same block division points for all customers. To be most consistent with cost-of-service principles, BC&A would recommend increasing the block division points for all meters larger than 3/4-inch in proportion to the AWWA equivalent meter ratios for cost-of-service. While the majority of the City's customers fall into the residential customer class, increasing the block sizes for customers with 1-inch, 1 1/2-inch, and 3-inch meters will better distribute the cost of service across the customer classes.

After taking into account the recommended modifications to the ERU calculation and the block division points, the rate model was used to calculate the water rates required to meet revenue needs for the next six years, which equates to a 6.4% yearly revenue increase from water sales. The recommended culinary water rates for customers who are connected to the pressurized irrigation system are summarized in Table 2-11.

Table 2-11
Recommended Culinary Water Rates

| Meter Size | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------|----------|----------|----------|----------|----------|----------|
| 3/4 and smaller | \$6.06 | \$6.41 | \$6.80 | \$7.21 | \$7.68 | \$8.10 |
| 1 | \$7.57 | \$8.01 | \$8.51 | \$9.02 | \$9.60 | \$10.14 |
| 1 1/2 | \$9.59 | \$10.15 | \$10.79 | \$11.43 | \$12.17 | \$12.86 |
| 2 | \$15.15 | \$16.04 | \$17.06 | \$18.07 | \$19.23 | \$20.32 |
| 3 | \$56.05 | \$59.38 | \$63.24 | \$66.92 | \$71.22 | \$75.31 |
| 4 | \$71.21 | \$75.43 | \$80.35 | \$85.01 | \$90.47 | \$95.68 |
| 6 | \$106.56 | \$112.88 | \$120.26 | \$127.23 | \$135.40 | \$143.20 |
| 8 | \$146.96 | \$155.68 | \$165.88 | \$175.48 | \$186.74 | \$197.51 |
| 10 | \$202.51 | \$214.53 | \$228.60 | \$241.82 | \$257.34 | \$272.19 |

Block Volume Rates (\$/kgal)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$3.18 | \$3.41 | \$3.62 | \$3.89 | \$4.13 | \$4.43 |
| Block 4 Rate | \$4.21 | \$4.51 | \$4.79 | \$5.15 | \$5.48 | \$5.88 |

Block Division Points by Meter Size

| | | Upper Block | Limits (kgal) | | | | | |
|------------------|---------|-------------|---------------|---------|--|--|--|--|
| Meter Size | Block 1 | Block 2 | Block 3 | Block 4 | | | | |
| 3/4" and smaller | 8 | 12 | 18 | + | | | | |
| 1" | 10 | 15 | 23 | + | | | | |
| 1 1/2" | 13 | 20 | 29 | + | | | | |
| 2" | 21 | 32 | 47 | + | | | | |
| 3" | 80 | 120 | 180 | + | | | | |
| 4" | 102 | 153 | 229 | + | | | | |
| 6" | 153 | 229 | 344 | + | | | | |
| 8" | 211 | 316 | 475 | + | | | | |
| 10" | 291 | 436 | 655 | + | | | | |

Monthly Base Charges. The first component of the proposed rate is the monthly base charge. The monthly base charge will be the same for all customer classes. The recommended base charge for meters that are 3/4-inch and smaller needs to be \$6.06 per month in 2013, with no water allowance included in this amount. This represents an increase of 1.0 percent in the monthly base charge over the existing rate of \$6.00 per month. This rate will need to increase to \$8.10 per month by 2018. As noted above, this rate will increase for larger meters in accordance with AWWA cost-of-service meter ratios. Corresponding rates for larger meters are shown in the table.

Volumetric Rates. Recommended volume charges per 1,000 gallons are also included shown in Table 2-11. These rates are for customers who are connected to the pressurized irrigation system. Up to this point, these rates have been calculated and recommended strictly on cost of service. However, the City has historically modified their rate structures to account for certain circumstances amongst the various customer classes. Aside from the largest portion of residential customers, which have access and connections to the pressurized irrigation system, there are two other types of customers: customers that have no access to the pressurized irrigation system and customers who may have access but have chosen not to connect to the pressurized irrigation system.

• No PI Available – Typically in the past, customers who do not have access to the pressurized irrigation system pay approximately 20 percent more for water than customers with access. So as to not unfairly burden these customers, the volume rates for blocks 3 and 4 were reduced. To continue this policy of reducing the potential for higher water costs for these customers, BC&A would suggest leaving the volume rates for blocks 3 and 4 unchanged, while using the newly recommended volume rates for blocks 1 and 2. These recommended volume rates are shown in Table 2-12.

Table 2-12
Volume Rates for Customers with No PI Available
Block Volume Rates (\$/kgal)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 |
| Block 4 Rate | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 |

• PI Not Connected – The City has historically charged more to customers who have access to the pressurized irrigation system but choose not to connect to it. This has been done to encourage customers to connect to the pressurized irrigation system when available. It has been assumed this practice will continue. Recommended volumetric rates for these customers are shown in Table 2-13. The increase in these recommended rates and the rates for regular PI customers are proportional to the difference in rates charged by the City in the past.

Table 2-13
Volume Rates for Customers Not Connected to PI System
Block Volume Rates (\$\setminus \text{Kgal}\$)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$2.10 | \$2.24 | \$2.38 | \$2.54 | \$2.70 | \$2.88 |
| Block 2 Rate | \$3.23 | \$3.47 | \$3.68 | \$3.95 | \$4.19 | \$4.49 |
| Block 3 Rate | \$4.24 | \$4.55 | \$4.83 | \$5.19 | \$5.51 | \$5.91 |
| Block 4 Rate | \$5.26 | \$5.64 | \$5.99 | \$6.44 | \$6.85 | \$7.35 |

A few items should be noted about the recommended rates:

- 1. These recommended rates were calculated on the conservative assumptions that the additional connections from Manila Water will in the long-term exhibit similar usage patterns as the remainder of the residents in the City, and that Cedar Ridge Elementary school will connect to the pressurized irrigation system. Until these events occur, the City will actually generate a little extra revenue beyond its projected revenue requirements.
- 2. These rates are based on the assumption that conservation will not be significant during the period of planning over the next six years. It should be understood that the assumption of no conservation is for the near future and may not be the level of conservation experienced on a long-term basis. Water use should be closely monitored in future years and the level of conservation used in the rate model should be modified accordingly.

SECTION 3 PRESSURIZED IRRIGATION RATE ANALYSIS

In Section 1, a 10-year budget plan was developed for the water, pressurized irrigation, sewer, and storm drain systems. Based on this overall budget plan, detailed rates can now be calculated for each utility. The purpose of this chapter is to calculate detailed pressurized irrigation rates for the next 6 years based on the overall budget plan.

This analysis focuses on three major tasks:

- 1. **Projecting Future Connections:** Future pressurized irrigation connections were estimated by examining current connections and by projecting system growth for the next several years. This includes consideration of both the construction of new connections and the conversion of some existing connections from culinary to secondary irrigation.
- 2. Calculating Revenue Requirements: Total revenue requirements for the system were projected for the next several years based on the budget plan outlined in Section 1. Non-rate revenue (including impact fee revenue) was deducted from the total to give the net revenue requirement to be recovered from rate payers.
- 3. **Cost Allocation:** Because the City's secondary system is not metered, this analysis cannot follow the full cost-of-service approach described for culinary water. However, it does still follow the essential principles of the method and divides costs between two customer service characteristics: volume related costs and customer related costs.
- 4. Rate Design: Rates were calculated to recover the allocated cost of service for each customer service characteristic based on a given rate structure.

The remainder of this report details the results of each of these three major tasks. Detailed rate tables from the model used to develop the rate recommendations are located in Appendix B.

KEY ASSUMPTIONS

The results presented in this report are based on the following assumptions:

- 1. The pressurized irrigation fund will continue to be an enterprise-type fund.
- 2. Water use in the pressurized irrigation system will continue to be unmetered, at least for the planning window of this study.
- 3. The study uses the "cash basis" approach to allocate costs to users. The "cash basis" study methodology was described previously in Section 2.
- 4. This rate study is based on projections of future water demands and projected system operation, maintenance, and improvement costs. These projections are based on current economic conditions and weather patterns over the last several years. Because conditions may change over time, it is recommended that Cedar Hills City review the rates annually to determine if any adjustments are needed. It is also recommended that a comprehensive

review and updating of water rates be undertaken in three to five years so that the basic analytical foundations of this study can be re-evaluated.

PROJECTING SECONDARY WATER USE

Historical Accounts

Cedar Hills City provides pressurized irrigation service to nearly 2,000 accounts. Pressurized irrigation system is unmetered, therefore current usage per account and future usage is cannot be calculated. However, since the City bills for pressurized irrigation based on lot size, the total irrigated acreage for each customer class can be found by multiplying the lot size by the number of accounts. To estimate the number of equivalent residential units (ERU) for each customer class, as summarized in Table 3-1, AWWA equivalent meter factors were used to normalize the secondary service size to 1-inch.

Table 3-1
2012 Estimated ERUs and Irrigated Acreage Summary

| Customer Class | Lot Size (acres) | ERUs | Average Irrigated Acreage (acres/ERU) |
|----------------|------------------|-------|--|
| Residential | 707 | 2,353 | 0.3 |
| Commercial | 17 | 19 | 0.9 |
| Institutional | 39 | 29 | 1.4 |
| Total | 763 | 2,401 | 0.3 |

Projected ERUs

Cedar Hills City has historically seen a wide range of growth rates depending on economic conditions in the area. Current projections available from the City project growth of between 0.75 to 0.83 percent over the next 6 years. These projections are somewhat conservative and take into account the current ongoing economic downturn. Based on this growth, projected ERUs over the planning period for each customer class are shown in Table 3-2.

Table 3-2 Projected ERUs

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------------|----------|----------|----------|----------|----------|----------|
| Customer Class | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | 2,371 | 2,389 | 2,407 | 2,427 | 2,447 | 2,467 |
| Commercial | 19 | 19 | 20 | 20 | 20 | 20 |
| Institutional | 29 | 29 | 29 | 30 | 30 | 30 |
| Total | 2,419 | 2,437 | 2,456 | 2,477 | 2,497 | 2,517 |

Projected Irrigated Acreage

Future secondary water demands were projected by multiplying the estimated average irrigated acreage per ERU 2012 from Table 3-1 by the projected number of ERUs in Table 3-2. Using this methodology, the projected growth in irrigated acreage is shown in Table 3-3.

Table 3-3
Projected Irrigated Acreage

| ************************************** | | | | | | | |
|--|----------------------|----------|----------|----------|----------|----------|----------|
| Customer Class | Average Acres/ERU | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 0.3 | 712 | 718 | 723 | 729 | 735 | 741 |
| Commercial | 0.9 | 17 | 17 | 18 | 18 | 18 | 18 |
| Institutional | 1.4 | 40 | 40 | 40 | 41 | 41 | 41 |
| Total | | 769 | 774 | 781 | 788 | 794 | 800 |

CALCULATING REVENUE REQUIREMENTS

Non-Rate Revenue

The projected non-rate revenue for the pressurized irrigation system is summarized in Table 3-4. This revenue is the net income from activities not associated with water sales. It may include service charges, net interest income, and fees. In Cedar Hill City's case, the only non-rate revenue collected for the pressurized irrigation system comes from the CUP Water Fee.

Table 3-4
Projected Non-Rate Revenue

| Item | Projected FYE 2013 | Projected FYE 2014 | Projected FYE 2015 | Projected FYE 2016 | Projected FYE 2017 |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Item | F1E 2013 | F1E 2014 | F1E 2013 | F 1 E 2010 | F I E 2017 |
| Operations | | | | | |
| CUP Fees | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 |
| Total Operations Non-Rate | | | | | |
| Revenue | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 |
| Expansion and Replacement | | | | | |
| Total Expansion Non-Rate | | | | | |
| Revenue | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Non-Rate Revenue | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 |

City Expenditures

The projected City expenditures for the planning period are summarized in Table 3-5. Included in the table are the projected total costs for the three major categories of expenditures: operations and maintenance, debt service, and capital expenditures. Each of these categories is discussed in more detail in following sections.

Table 3-5
Projected Revenue Requirements

| Item | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| O&M | \$422,886 | \$437,180 | \$451,935 | \$467,368 | \$483,329 |
| Debt Services | \$483,579 | \$480,032 | \$485,835 | \$480,938 | \$485,842 |
| Capital | \$188,591 | \$190,608 | \$183,405 | \$187,356 | \$180,832 |
| Total Expenditures | \$1,095,056 | \$1,107,820 | \$1,121,174 | \$1,135,662 | \$1,150,002 |

Operation and Maintenance Costs. The projected operation and maintenance (O&M) costs for the City have been taken from the City's budget for 2012. Historically, O&M costs for the City for the culinary and pressurized irrigation systems have been combined in the same water expenditures category. For this study, expenditures that are spent on both culinary and secondary systems have been assigned 60 percent to culinary water and 40 percent to pressurized irrigation. A detailed list of all O&M budget categories is included as part of the rate model in Appendix B. Beyond 2012, it has been assumed that these O&M cost categories will increase at a rate equal to half the system growth rate in each year and an assumed inflation rate of 3.0 percent (e.g. budget growth in 2013 = 0.76%/2 + 3% = 3.38%).

Debt Service Costs. The projected debt service costs for the City have been taken from the City's bond payment schedule through 2018. A detailed list of all bond payments is included as part of the rate model in Appendix B. Pressure irrigation is responsible for the largest portion of existing utility bonds in the City.

Capital Improvement Costs. Because Cedar Hills City's pressurized irrigation system is relatively new, large capital improvement or replacement projects are absent from the City's budget. An amount of \$15,000 (increased with an assumed inflation rate of 3.0%) per year is budgeted for miscellaneous pressurized irrigation projects.

Included under the capital improvements budget is a section for the transfer of funds to or from the City's reserve fund. As noted in Section 1, the reserve fund is being used to smooth out total, overall capital expenditures in the City. Since the pressurized irrigation fund is projected to have surplus revenue in all years for the planning period, excess pressurized irrigation revenue will be transferred to the reserve fund to help pay for system improvements in other areas.

COST ALLOCATIONS

As with the culinary water rate analysis, a key step is the allocation of costs to customer service characteristics. The allocation approach used in this rate update reflects the basic approaches recommended by AWWA.

Customer Service Characteristics

Customer service characteristics for the pressurized irrigation rate analysis are similar to those in the culinary model, but simplified. Specifically, the customer service characteristics considered in this rate study are divided into two categories:

- volume characteristics (which include average & peak day demand), and
- customer characteristics (which include billing & administrative costs).

The first step in allocating costs is to divide each of the City's revenue requirements into these categories. This has been done in the secondary water rate model (see Tables 7 and 8 of Appendix B). In each case, these allocations are based on information provided by Cedar Hills City personnel, professional engineering judgment, and knowledge of system operations. Table 7 in Appendix B provides a division by customer service characteristics for O&M expenditures. Table 8 in Appendix B provides the same information for capital and bonding expenditures.

Using the percentages assigned to each budget category, the system revenue costs are distributed among the customer service characteristics. This is also shown in detail in the rate model. The total revenue requirement for each customer service characteristic is given in Table 10 of Appendix B. Table 11 of Appendix B shows the total cost allocation for each customer class.

CURRENT PRESSURIZED IRRIGATION RATE STRUCTURE

Existing pressurized irrigation rates are shown in Table 3-6.

Base Rate

Table 3-6
Existing Pressurized Irrigation Rates
(Per Month)

Existing

| All Customers (Per ERU) | \$15.95 |
|--------------------------|----------|
| | |
| Volume Rate | Existing |
| 1/4 acre lot and smaller | \$12.28 |
| 1/4 acre to 1/3 acre lot | \$16.38 |
| 1/3 to 1/2 acre lot | \$24.57 |
| Larger Lots (\$/acre) | \$49.12 |

Similar to the culinary rate structure, pressurized irrigation rates are commonly divided into two components:

• Monthly Base Charge – The monthly base charge is the amount charged to existing users to be connected to the system, regardless of the amount of water used. The monthly base rate has historically been charged per equivalent residential unit (ERU).

• Volumetric Charges - Volumetric charges are those charges assessed based on the amount of water used by the customer. Since there are no meters on the secondary system, the potential amount of water used is estimated based on lot size. Current City rate schedules specify the volume rate for three different lot size ranges. For larger lot sizes, the volume rate is calculated based on total lot size (e.g. volume rate for a 4 acre lot = \$49.12*4 = \$196.48).

In general, the City's existing secondary rate structure appears to be a reasonable, cost based structure. Based on cost-of-service principles and standard industry practices, BC&A would recommend that just one minor modification be made to the existing structure:

• Charge Monthly Base Rate By Connection Size – Similar to the culinary water rates, the monthly base rate for secondary service has historically been charged on a per ERU basis using lot size to define an ERU. For the same reasons outlined for culinary water, BC&A would recommend changing this calculation to be based on the industry-standard AWWA meter capacity ratios. This would better reflect the cost-of-service perspective that the base rate amount should be charged based on the capacity to use water, regardless of the amount of water used. This is best represented by connection size.

RECOMMENDED FUTURE RATES

Based on projected revenue requirements and the recommendations contained above, calculated pressurized irrigation rates are shown in Table 3-7.

Table 3-7
Calculated Cost-of-Service Pressurized Irrigation Rates (Per Month)

| Monthly Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---|----------|-------------|-------------|-------------|-------------|-------------|
| All Customers (Per 1-inch equivalent connection | \$15.74 | \$15.79 | \$15.83 | \$15.87 | \$15.91 | \$15.96 |
| | | | | | | |
| | FYE | FYE | FYE | FYE | FYE | FYE |
| Volume Rate (\$/acre) | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| All Customers | \$52.57 | \$52.46 | \$52.31 | \$52.14 | \$52.02 | \$51.90 |

As shown in the table, the calculated cost-of-service rates change very little over the planning period. There is a slight shift from volume charges to monthly base charges over time as a result of shifting system costs, but the overall charge to individual customers will be very similar.

For simplicity and ease of implementation, BC&A would recommend adopting a simplified rate schedule the planning window as summarized in Table 3-8. This rate structure maintains the currently base rate (1-inch connection) at \$15.95 through the planning window with corresponding volume charges (i.e. charge by lot size).

Table 3-8
Recommended Pressurized Irrigation Rates

| Utility Fees (per month) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------------------|----------|----------|----------|----------|----------|----------|
| Base Rate | | | | | | |
| 1-inch connection | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 |
| 1 1/2-inch connection | \$31.90 | \$31.90 | \$31.90 | \$31.90 | \$31.90 | \$31.90 |
| 2-inch connection | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 |
| 3-inch connection | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 |
| 4-inch connection | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 |
| Lot size-1/4 acre or less | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 |
| 1/4 acre to 1/3 acre | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 |
| 1/3 acre to 1/2 acre | \$25.95 | \$25.95 | \$25.95 | \$25.95 | \$25.95 | \$25.95 |
| Larger lots (\$/acre) | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 |

It will be noted that the volume charges recommended in Table 3-8 are slightly higher than the existing rates. This may appear to be in conflict with Section 1 where it was recommended that there be no increase in pressure irrigation rates. This is the result of the recommendation that the ERU calculation method be based on service size instead of the method used by the City in the past. Moving to the service size calculation method results in a slight decrease in revenue from base rates. Thus, a corresponding slight increase in volume charges is required to balance the fund, even though the total revenue will remain constant.

SECTION 4 SEWER RATE ANALYSIS

In Section 1, a 10-year budget plan was developed for the water, pressurized irrigation, sewer, and storm drain systems. Based on this overall budget plan, detailed rates can now be calculated for each utility. The purpose of this chapter is to calculate detailed sewer rates for the next six years based on the overall budget plan.

This analysis focuses on four major tasks:

- 1. **Projecting Wastewater Production:** Future wastewater production was estimated by examining current production patterns and by projecting sewer system growth for the next several years.
- 2. Calculating Revenue Requirements: Total revenue requirements for the system were projected for the next several years based on the budget plan outlined in Section 1. Non-rate revenue (including impact fee revenue) was deducted from the total to give the net revenue requirement to be recovered from rate payers.
- 3. Cost Allocation: This analysis generally follows the design cost-causative procedure recommended by the Water Pollution Control Federation (WPCF), American Society of Civil Engineers (ASCE), and American Public Works Association (APWA)¹. The essential principle of this method is that wastewater revenue should be recovered from classes of customers in proportion to the cost of serving those customers.
- 4. Wastewater Rate Design: Wastewater rates were calculated to recover the allocated cost of service based on operation and maintenance costs and capital improvement plan costs. The report develops one rate for all customer classes: residential, commercial, and institutional.

The remainder of this report details the results of each of these four major tasks. Detailed rate tables from the model used to develop the rate recommendations are located in Appendix C.

KEY ASSUMPTIONS

The results presented in this report are based on the following assumptions:

- 1. The City operating fund will continue to be a self-funding enterprise fund.
- 2. The study follows the basic recommended methodologies of the joint publication, "Financing and Charges for Wastewater Systems". Only the "cash basis" approach has been used to allocate costs to users. The "cash basis" study methodology was summarized in Section 2 of this report.
- 3. This wastewater rate study is based on projections of future wastewater production and projected system operation, maintenance, and improvement costs. These projections are based on current economic conditions and wastewater use patterns. Because conditions

¹ Water Pollution Control Federation, American Society of Civil Engineers, and American Public Works Association. Financing and Charges for Wastewater Systems, 1984.

may change over time, it is recommended that the City review the wastewater rates periodically and adjust them as needed to provide a revenue stream that will adequately fund operation and maintenance costs as well as needed rehabilitation and replacement projects. It is also recommended that a comprehensive review and updating of wastewater rates be undertaken in three to five years so that the basic analytical foundations of this study can be re-evaluated.

PROJECTING WASTEWATER PRODUCTION

Historic Indoor Water Use

The City currently provides sewer service to approximately 2,370 accounts. For the purposes of this report, it has been assumed that winter water meter data can be used to estimate indoor water use. During the winter, irrigation demands are not present and metered water should be proportionate to wastewater production. As fiscal year 2012 has not yet ended, water use for 2012 was estimated by using the historic water use for fiscal year ending 2011. Estimated indoor water use for the City in 2012 is summarized by customer class in Table 4-1. To estimate the number of equivalent residential units (ERU) for each customer class, AWWA equivalent meter factors were used to normalize the water meter size to 3/4-inch.

Table 4-1
2012 Estimated ERUs and Indoor Water Use Summary

| | Annual Use | | Average Use per ERU |
|----------------|---------------|-------|------------------------|
| Customer Class | (kgal) | ERUs | (kgal/month) |
| Residential | 161,206 | 2,354 | 5.7 |
| Commercial | 6,594 | 18 | 30.5 |
| Institutional | 5,301 | 15 | 30.0 |
| Total | 173,101 | 2,387 | 6.0 |

Projected ERUs

Cedar Hills City has historically seen a wide range of growth rates depending on economic conditions in the area. Current projections available from the City project growth of between 0.75 to 0.83 percent over the next 6 years. These projections are somewhat conservative and take into account the current ongoing economic downturn. Per the City's projections, it has been assumed that 18 annual residential accounts will be added through 2015 and 20 annual accounts added through 2020. Projected growth rates and accounts by customer type are summarized in Table 4-2.

Table 4-2
Projected Growth in System Accounts

| Customer | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------|----------|-------------|-------------|-------------|----------|----------|
| Class | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | 2,372 | 2,390 | 2,408 | 2,428 | 2,448 | 2,468 |
| Commercial | 18 | 18 | 18 | 19 | 19 | 19 |
| Institutional | 15 | 15 | 15 | 15 | 15 | 15 |
| Total | 2,405 | 2,423 | 2,441 | 2,462 | 2,482 | 2,502 |

Projected Indoor Water Use

Future sewer demands were projected by multiplying the estimated average use per ERU in 2012 from Table 4-1 by the projected number of accounts in Table 4-2. Using this methodology, the projected growth in total sewer sales are shown in Table 4-3.

Table 4-3
Projected Annual Indoor Water Use

| | | Amount (kgal) | | | | | | |
|-------------------|--------------------|---------------|-------------|-------------|-------------|-------------|-------------|--|
| Customer Class | Average Use/ERU | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 | |
| Residential | 68.5 | 162,439 | 163,671 | 164,904 | 166,274 | 167,643 | 169,013 | |
| Commercial | 366.3 | 366.3 | 6,594 | 6,594 | 6,594 | 6,960 | 6,960 | |
| Institutional | 359.9 | 5,398 | 5,398 | 5,398 | 5,398 | 5,398 | 5,398 | |
| Total | | 174,431 | 175,664 | 176,896 | 178,632 | 180,002 | 181,371 | |

Infiltration and Inflow

Infiltration and inflow is the intrusion of groundwater or stormwater into the sewer system through cracked pipes, broken and offset joints, improper connections, leaky manholes, etc. In areas with aging sewer lines and high groundwater, infiltration can actually be the largest component of flow being conveyed in the sewer. Infiltration is very difficult to measure because it varies across the service area based on climate conditions, water table levels, pipe diameter, and pipe condition. Because of the difficulty of identifying the source of infiltration, the City does not bill sewer accounts for infiltration directly. Thus, infiltration and inflow are not included in the rate model and billing flows are based on indoor water use only.

Peaking Characteristics

Unlike water used for outdoor irrigation, indoor water use is relatively constant year round. As a result, the calculation of sewer rates does not need to consider peak day demands. However, sewer flow does tend to vary significantly over the course of a single day. Thus, the sewer rate model includes consideration of peak hour factors so that users with varying peaking rates can be

assessed fairly. Unfortunately, there is no data available to isolate accurate peak hour factors for any individual customer class. Thus, a peaking factor of 1.90 has been assumed for all customer classes based on the City's overall average.

Strength Characteristics

Similar to peaking characteristics, there is no data available to isolate accurate wastewater strength characteristics for any individual customer class. Additionally, Cedar Hills City doesn't currently bill customers for wastewater strength characteristics. However, for potential future use, consideration of wastewater strength for the City as a whole is included here.

Using the City's most recent invoice from Timpanogos Special Service District, a BOD concentration of 225 mg/L and a TSS concentration of 221 mg/L has been used for all customer classes based on the City's overall averages. The total projected strength loadings for the City are summarized in Table 4-4.

Table 4-4
Projected Growth in Strength Loading

| | Average | Amount (lbs/year) | | | | | | | |
|-----|---------------|-------------------|---------|---------|---------|---------|---------|--|--|
| | Concentration | FYE | FYE | FYE | FYE | FYE | FYE | | |
| | (mg/L) | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | | |
| BOD | 225 | 445,440 | 448,588 | 451,736 | 456,168 | 459,666 | 463,163 | | |
| TSS | 221 | 437,512 | 440,604 | 443,695 | 448,050 | 451,485 | 454,921 | | |

Also from the City's most recent TSSD invoice, it has been calculated that 80 percent of the treatment costs are allocated to the volume service characteristic, while the remaining 20 percent of the costs are allocated to the strength service characteristic.

CALCULATING REVENUE REQUIREMENTS

There are two methods for determining revenue requirements for a City as outlined in Section 2, the cash basis and utility basis. As with the water rate analysis, wastewater rates were developed under the cash basis only.

Impact Fee Revenue

The projected impact fee revenue for the next six years is estimated to increase from about \$4,900 a year to \$5,300 a year as summarized in Table 4-5. The projected annual revenue from impact fees is based on the projected number of new accounts as discussed previously. For this analysis, it has been assumed that the City's current impact fee rates will be constant over throughout the planning period. If the City updates its impact fees, the rates calculated in this report will need to be adjusted accordingly.

Table 4-5
Projected Impact Fee Revenue

| | FYE | FYE | FYE | FYE | FYE | FYE |
|-------------------------------------|---------|---------|---------|---------|---------|---------|
| Year | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Annual Growth Rate | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Projected Impact Fee Revenue | \$4,899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |

Non-Rate Revenue

The projected non-rate revenue for the City is summarized in Table 4-6. This revenue is the net income from activities not associated with sewer user rates or impact fees. It may include service charges, net interest income, fees, and tax revenue. For accounting purposes the City separates this income into operating and non-operating revenue. The biggest portion of this revenue comes from connection fees.

Table 4-6 Projected Non-Rate Revenue

| Item | Projected FYE 2013 | Projected FYE 2014 | Projected FYE 2015 | Projected FYE 2016 | Projected FYE 2017 | Projected FYE 2018 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Operating | | | | | | |
| Sewer Lateral Inspections | \$1,089 | \$1,130 | \$1,173 | \$1,218 | \$1,264 | \$1,313 |
| Total Operating Non-Rate Revenue | \$1,089 | \$1,130 | \$1,173 | \$1,218 | \$1,264 | \$1,313 |
| Non-Operating | | | | | | |
| Connection Fees | \$4,899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| Total Non-Operating Non- Rate Revenue | \$4,899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| Total Non-Rate Revenue | \$5,988 | \$5,957 | \$5,999 | \$6,849 | \$6,627 | \$6,675 |

City Expenditures

The projected City expenditures for the planning period are summarized in Table 4-7. Included in the table are the projected total costs for the three major categories of expenditures: operations and maintenance, debt service, and capital expenditures. Each of these categories is discussed in more detail in following sections.

Table 4-7
Projected Revenue Requirements

| Item | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| O&M | \$861,499 | \$900,313 | \$940,911 | \$983,501 | \$1,028,069 | \$1,074,678 |
| Debt Services | \$30,333 | \$30,793 | \$31,213 | \$30,613 | \$30,993 | \$30,333 |
| Capital (Net of | | | | | | |
| bond revenue) | \$49,664 | \$69,198 | \$90,705 | \$117,281 | \$143,599 | \$173,648 |
| Total Expenditures | \$941,495 | \$1,000,303 | \$1,062,828 | \$1,131,395 | \$1,202,661 | \$1,278,659 |

Operation and Maintenance Costs. The projected operation and maintenance (O&M) costs for the City have been taken from the City's budget for 2012. A detailed list of all O&M budget categories is included as part of the rate model in Appendix C. Beyond 2012, it has been assumed that all O&M cost categories will increase at a rate equal to half the system growth rate in each year and an assumed inflation rate of 3.0 percent (e.g. budget growth in 2013 = 0.76%/2 + 3% = 3.38%). An exception to this assumption is made for the O&M cost of Timpanogos Special Service District (TSSD) fees. This expenditure was increased at 5.0% to account for expected future rate increases in addition to inflation.

Debt Service Costs. The projected debt service costs for the City have been taken from the City's bond payment schedule through 2018. As indicated by the City, one half of the 2006 Excise Tax Bond for the new Public Works Building is paid for from the water and sewer funds. For this study, this portion of the debt service was split in proportion to the total budget for these two funds; 60 percent for culinary water and 40 percent for sewer (e.g. 40%/2=20% of the 2006 bond is paid from the sewer fund). A detailed list of all bond payments is included as part of the rate model in Appendix C.

Capital Improvement Costs. The projected capital improvement costs for the City have been taken from the City's 10-year capital improvement plan. A detailed list of all capital improvements is included as part of the rate model in Appendix C.

Included under the capital improvements budget is a section for the transfer of funds to or from the City's reserve fund. As noted in Chapter 1, the reserve fund is being used to smooth out total, overall capital expenditures in the City. In some years sewer revenue will be used to help pay for other system improvements and in other years, other revenues will help pay for sewer. With the City's philosophy of paying for improvements while minimizing bonding, there will also be years in which excess funds are generated and added to the reserve, only to be drawn out in subsequent years for large projects. From a long-term perspective, there will be no net change in the reserve fund's overall size due to these transfers. City personnel have indicated that the reserve fund should be adequate for transfers of this magnitude.

COST ALLOCATIONS

A key step in a cost-causative wastewater rate analysis is the allocation of costs to customer service characteristics. The allocation approach used in this study reflects the basic approaches recommended by WPCF, ASCE, and APWA.

Customer Service Characteristics

This approach recommends the allocation of costs into one of four cost allocation categories:

- Volume costs Volume costs refer to costs that are determined by the volume of wastewater generated in the system. Costs associated with treatment at City's wastewater reclamation facility would fit under this category.
- Capacity costs Capacity costs are costs determined by the peak wastewater production of system users. This category would include such items as the design and construction of major trunk lines since they are sized based on peak flow rates.

- Strength costs Strength costs are those costs determined by biochemical oxygen demand (BOD) or total suspended solids (TSS) concentrations.
- Customer related costs Customer related costs are any costs independent of the quantity or quality of wastewater generated. This category is mostly limited to administrative services such as the cost of generating and sending out a bill each month.

Each of the revenue requirements discussed previously was divided between these four customer service characteristic categories. This has been done in the sewer rate model (see Tables 12 and 13 of Appendix C). In each case, these allocations are based on information provided by Cedar Hills personnel, professional engineering judgment, and knowledge of system operations. Table 12 in Appendix C provides a division by cost allocation category for O&M expenditures. Table 13 in Appendix C provides the same information for capital and bonding expenditures.

Using the percentages assigned to each budget category, the system revenue costs are distributed among the customer service characteristics. This is also shown in detail in the rate model. The total revenue requirement for each customer service characteristic is given in Table 15 of Appendix C. Table 16 of Appendix C shows the total cost allocation for each customer class.

CURRENT WASTEWATER RATE STRUCTURE

Existing wastewater rates and projected revenue for each customer class are shown in Table 4-8. The monthly base administrative charge is the amount charged to existing users to be connected to the system, regardless of the amount of water discharged. Volumetric charges are those charges assessed based on the amount of wastewater generated by the customer (as estimated based on indoor water use). It should be emphasized that this is based on indoor water use and not actual wastewater production. This is because the City does not measure wastewater production directly, but does collect data on water use. Winter water meter data is used to estimate indoor water use.

Table 4-8
Existing Sewer Rates

| Base Rate | |
|-----------------|----------|
| (\$/month) | Existing |
| All Customers | \$13.50 |
| Volume Rate | |
| v oralite reace | |
| (\$/kgal) | Existing |

In general, the City's existing sewer rate structure appears to be a reasonable, cost based structure. Based on cost-of-service principles and standard industry practices, BC&A would recommend that just one minor modification be made to the existing structure:

• Charge Monthly Base Rate By Water Meter Size – Similar to the culinary water rates, the monthly base rate for sewer service has historically been charged on a per ERU basis

using historic indoor water use as the basis for calculating an ERU. For the same reasons outlined for culinary water, BC&A would recommend changing this calculation to be based on the industry-standard AWWA meter capacity ratios using each customer's water meter size. This would better reflect the cost-of-service perspective that the base rate amount should be charged based on the capacity to produce wastewater, regardless of the amount of wastewater actually produced. Of the customer information available to the City, this is best represented by water meter size.

Total projected revenues based on existing City water rates are shown in Table 4-9. It can be seen that the projected revenue from existing sewer water rates will become increasingly insufficient to meet revenue requirements in the coming years. As described in Section 1, BC&A would recommend an overall increase in sales revenue of approximately 5.5% per year over the planning period in order to meet revenue requirements.

Table 4-9
Projected Revenue Based on Existing Sewer Rates

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------------------------------|------------|-------------|-------------|-------------|-------------|-------------|
| Projected Revenue- Existing Rates | \$886,738 | \$893,167 | \$899,596 | \$907,946 | \$915,089 | \$922,233 |
| Projected Revenue Requirements | \$935,507 | \$994,346 | \$1,056,829 | \$1,124,546 | \$1,196,034 | \$1,271,983 |
| Projected Difference | (\$48,769) | (\$101,179) | (\$157,232) | (\$216,600) | (\$280,945) | (\$349,751) |

RECOMMENDED FUTURE RATES

Based on projected revenue requirements and the recommendations contained above, calculated sewer rates are shown in Table 4-10. Included in Table 4-10 is a breakdown of volume charges by service characteristics, including strength. Although the City currently has no practical way of measuring items such as strength for individual customers, this breakdown has been included for future reference in the event any significant industrial or high strength customers intend to connect to the system.

Table 4-10
Calculated Cost-of-Service Rates

| | FYE | FYE | FYE | FYE | FYE | FYE |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Monthly Base Rate | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| All Customers (per 3/4-inch | | | | | | |
| equivalent water connection) | \$9.36 | \$10.09 | \$10.86 | \$11.71 | \$12.61 | \$13.56 |
| | | | | | | |
| | FYE | FYE | FYE | FYE | FYE | FYE |
| Volume Rate (\$/kgal) | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Volume Component | | | | | | |
| All Customers | \$3.13 | \$3.28 | \$3.43 | \$3.58 | \$3.75 | \$3.93 |
| Capacity Component | | | | | | |
| All Customers | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Strength Component | | | | | | |
| All Customers | \$0.69 | \$0.71 | \$0.75 | \$0.77 | \$0.81 | \$0.84 |
| Total Volume Rate | | | | | | |
| All Customers | \$3.81 | \$3.99 | \$4.18 | \$4.36 | \$4.56 | \$4.77 |

As can be seen in Table 4-10, the monthly base rate calculated after allocating costs across the various customer service characteristics is actually less than the City is currently charging. Conversely, the total volume rate calculated based on revenue requirements is higher than the City's current schedule. This would suggest that the City's current rate structure isn't quite in line with the actual cost-of-service and that a shift from the monthly base administrative charge to the volume charge is merited.

To maintain rate stability, BC&A would recommend that this shift in cost allocation take place gradually over the next six years. Our recommended approach is shown in Table 4-11. The monthly base rates would be held constant through 2017 at the current rate of \$13.50/month for a customer with a 3/4-inch water meter. During this period, all projected increases would be reflected entirely in the volume rates charged to customers. If this approach is followed, the cost allocations will be balanced with actual cost-of-service by FYE 2018.

Table 4-11
Recommended Sewer Rates

| | FYE | FYE | FYE | FYE | FYE | FYE |
|------------------------|----------|----------|----------|----------|----------|----------|
| Monthly Base Rate | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| 3/4-inch water meter | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.56 |
| 1-inch water meter | \$17.18 | \$17.18 | \$17.18 | \$17.18 | \$17.18 | \$17.26 |
| 1 1/2-inch water meter | \$22.09 | \$22.09 | \$22.09 | \$22.09 | \$22.09 | \$22.20 |
| 2-inch water meter | \$35.59 | \$35.59 | \$35.59 | \$35.59 | \$35.59 | \$35.76 |
| 3-inch water meter | \$135.00 | \$135.00 | \$135.00 | \$135.00 | \$135.00 | \$135.64 |
| 4-inch water meter | \$171.82 | \$171.82 | \$171.82 | \$171.82 | \$171.82 | \$172.63 |
| 6-inch water meter | \$257.73 | \$257.73 | \$257.73 | \$257.73 | \$257.73 | \$258.95 |
| 8-inch water meter | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$357.60 |
| 10-inch water meter | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$493.24 |
| Total Volume Rate | | | | | | |
| (\$/kgal) | | | | | | |
| All Customers | \$3.13 | \$3.43 | \$3.74 | \$4.06 | \$4.41 | \$4.77 |

SECTION 5 STORM DRAIN RATE ANALYSIS

In Section 1, a 10-year budget plan was developed for the water, pressurized irrigation, sewer, and storm drain systems. Based on this overall budget plan, detailed rates can now be calculated for each utility. The purpose of this chapter is to calculate detailed storm drain rates for the next 6 years based on the overall budget plan.

This analysis focuses on three major tasks:

- 1. **Projecting Future Connections:** Future storm drain connections were estimated by examining current connections and by projecting system growth for the next several years.
- 2. Calculating Revenue Requirements: Total revenue requirements for the system were projected for the next several years based on the budget plan outlined in Section 1. Non-rate revenue (including impact fee revenue) was deducted from the total to give the net revenue requirement to be recovered from ratepayers.
- 3. **Cost Allocation:** Because of the nature of this utility, the storm drain analysis cannot follow the same full cost-of-service approach described for culinary water. However, it does still follow the essential principles of the method and divides costs between two customer service characteristics: volume related costs and customer related costs.
- 4. Rate Design: Rates were calculated to generate the required rate revenue.

The remainder of this report details the results of each of these three major tasks. Detailed rate tables from the model used to develop the rate recommendations are located in Appendix D.

KEY ASSUMPTIONS

The results presented in this report are based on the following assumptions:

- 1. The storm drain fund will continue to be an enterprise-type fund.
- 2. This rate study is based on projections of future system operation, maintenance, and improvement costs. These projections are based on current economic conditions and regulatory requirements. Because conditions may change over time, it is recommended that Cedar Hills City review the rates annually to determine if adjustments are needed to provide a revenue stream that will adequately fund operation and maintenance costs as well as needed capital improvements. It is also recommended that a comprehensive review and updating of water rates be undertaken in three to five years so that the basic analytical foundations of this study can be re-evaluated.

PROJECTING STORM DRAIN USE

Historic Drainage Area

Cedar Hills City provides storm drain service to over 2,000 accounts as shown in Table 5-1. To estimate the potential for storm drainage from each of these accounts, Table 5-1 also summarizes the total lot area associated with each customer class. The average lot size for each residential connection is 0.3 acres (e.g. 0.3 acres=1 Equivalent Residential Unit "ERU").

Table 5-1
2012 Estimated Account and Drainage Area Summary

| Customer Class | Lot Size (acres) | Accounts | Average Drainage Area (acres/acct.) |
|----------------|------------------|----------|-------------------------------------|
| Residential | 705 | 2,349 | 0.3 |
| Commercial | 18 | 7 | 2.5 |
| Institutional | 49 | 9 | 5.5 |
| Total | 772 | 2,365 | 0.3 |

It should be noted here that a decision has been made to base this analysis on total lot size. This is one of two common methods of looking at potential for storm drainage. The other common method is to consider only impervious area. For this study, total lot size has been deemed a more appropriate measure because all development is required to detain storm water on site based on lot size. Thus, impervious area only effects onsite facilities and has little effect on what the City ultimately receives in storm water.

Projected Accounts

Cedar Hills City has historically seen a wide range of growth rates depending on economic conditions in the area. Current projections available from the City project growth of between 0.75 to 0.83 percent over the next 6 years. These projections are somewhat conservative and take into account the current ongoing economic downturn. Projected growth rates and accounts by customer type are summarized in Table 5-2.

Table 5-2 Projected Accounts

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------------|-------------|-------------|-------------|-------------|-------------|----------|
| Customer Class | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | 2,367 | 2,385 | 2,403 | 2,423 | 2,443 | 2,463 |
| Commercial | 7 | 7 | 7 | 7 | 7 | 7 |
| Institutional | 9 | 9 | 9 | 9 | 9 | 9 |
| Total | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |

Projected Drainage Area

Future storm drainage areas were projected by multiplying the estimated average drainage area per account from Table 5-1 by the projected number of accounts in Table 5-2. Using this methodology, the projected growth in drainage area is shown in Table 5-3.

Table 5-3 Projected Drainage Area

| | Average | erage Total Drainage Area (acres) | | | | | | | |
|----------------|---------------------------|-----------------------------------|----------|----------|-------------|-------------|----------|--|--|
| Customer Class | Drainage Area per Account | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 | | |
| Residential | 0.3 | 710 | 715 | 721 | 727 | 733 | 739 | | |
| Commercial | 2.5 | 2.5 | 18 | 18 | 18 | 18 | 18 | | |
| Institutional | 5.5 | 49 | 49 | 49 | 49 | 49 | 49 | | |
| Total | | 777 | 783 | 788 | 794 | 800 | 806 | | |

CALCULATING REVENUE REQUIREMENTS

Non-Rate Revenue

Cedar Hills City currently has no non-rate revenue from the storm drain system.

City Expenditures

The projected City expenditures for the planning period are summarized in Table 5-4. Included in the table are the projected total costs for the three major categories of expenditures: operations and maintenance, debt service, and capital expenditures. Each of these categories is discussed in more detail in following sections.

Table 5-4
Projected Revenue Requirements

| Item | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| O&M | \$240,048 | \$248,162 | \$256,537 | \$265,298 | \$274,358 |
| Debt Services | \$0 | \$0 | \$0 | \$0 | \$0 |
| Capital Expenditures | (\$9,331) | (\$592) | \$9,102 | \$19,946 | \$31,918 |
| Total Expenditures | \$230,718 | \$247,570 | \$265,639 | \$285,245 | \$306,277 |

Operation and Maintenance Costs. The projected operation and maintenance (0&M) costs for the City have been taken from the City's budget for 2012. A detailed list of all 0&M budget categories is included as part of the rate model in Appendix D. Beyond 2012, it has been assumed that most of these 0&M cost categories will increase at a rate equal to half the system growth rate in each year and an assumed inflation rate of 3.0 percent (e.g. budget growth in 2013 = 0.76%/2 + 3% = 3.38%).

Debt Service Costs. Cedar Hills City currently has no projected debt service costs for the storm drain system.

Capital Improvement Costs. Aside from an annual \$80,000 (increased with an assumed inflation rate of 3.0%) budget for miscellaneous rehabilitation and replacement projects, there is only one capital improvement project planned during the next six years: a \$400,000 Old Town Storm Drain Retention Project in 2016.

Included under the capital improvements budget is a section for the transfer of funds to or from the City's reserve fund. As noted in Chapter 1, the reserve fund is being used to smooth out total, overall capital expenditures in the City. In some years storm drain revenue will be used to help pay for other system improvements and in other years, other revenues will help pay for storm drain. With the City's philosophy of paying for improvements without bonding, there will also be years in which excess funds are generated and added to the reserve, only to be drawn out in subsequent years for large projects. From a long-term perspective, there will be no net change in the reserve fund's overall size due to these transfers. City personnel have indicated that the reserve fund should be adequate for transfers of this magnitude.

COST ALLOCATIONS

As with the culinary water rate analysis, a key step is the allocation of costs to customer service characteristics. The allocation approach used in this rate update reflects the basic approaches recommended by AWWA.

Customer Service Characteristics

Customer service characteristics for the storm drain rate analysis are similar to those in the culinary model, but simplified. Specifically, the customer service characteristics considered in this rate study are divided into two categories:

- volume characteristics (which includes total storm water flow), and
- customer characteristics (which include billing & administrative costs).

The first step in allocating costs is to divide each of the City's revenue requirements into these categories. This has been done in the storm drain rate model (see Tables 7 and 8 of Appendix D). In each case, these allocations are based on information provided by Cedar Hills City personnel, professional engineering judgment, and knowledge of system operations. Table 7 in Appendix D provides a division by customer service characteristics for O&M expenditures. Table 8 in Appendix D provides the same information for capital and bonding expenditures.

Using the percentages assigned to each budget category, the system revenue costs are distributed among the customer service characteristics. This is also shown in detail in the rate model. The total revenue requirement for each customer service characteristic is given in Table 10 of Appendix D. Table 11 of Appendix D shows the total cost allocation for each customer class.

CURRENT STORM DRAIN RATE STRUCTURE

Existing monthly storm drain rates consist of a flat rate of \$7.25 per month charged per ERU to all customer classes. Customers are charged based on lot sizes only through the calculation of ERUs.

Based on cost-of-service principles and standard industry practices, BC&A would recommend just one modification be made to the existing structure:

• Break Existing Fee into Base and Volume Charge – Like all of the other rates discussed in this report, storm drain rates are commonly divided into two components: monthly base charges and volumetric charges. The monthly base charge is the amount charged to existing users to be connected to the system, regardless of lot size or detention/retention needs. Volumetric charges are those charges assessed based on the amount of storm water produced by the customer. BC&A would recommend continuing to charge a base rate to residential customers or customers on lots that are 0.3 acres or less (1 ERU=0.3 acres). For the commercial & institutional customer classes, lots that are 0.3 acres or less would also pay the same flat base rate. On larger lots, however, which require more expensive infrastructure to handle storm runoff, a base rate and volume charge based on lot size is recommended. This will allow the City to distribute costs more fairly across the various customer classes.

Total annual projected rate revenues based on existing storm drain rates are shown in Table 5-5. It can be seen that the projected revenue from existing storm water rates will become increasingly insufficient to meet revenue requirements in the coming years. As described in Section 1, BC&A would recommend an overall increase in sales revenue of approximately 6.5% per year over the planning period in order to meet revenue requirements.

Table 5-5
Projected Revenue Based on Existing Storm Rates

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Projected Rate | | | | | | |
| Revenue-Existing Rates | \$225,379 | \$226,945 | \$228,511 | \$230,251 | \$231,991 | \$233,731 |
| Projected Rate Revenue | | | | | | |
| Requirements | \$230,718 | \$247,570 | \$265,639 | \$285,245 | \$306,277 | \$328,838 |
| Projected Difference | (\$5,339) | (\$20,625) | (\$37,128) | (\$54,994) | (\$74,286) | (\$95,107) |

RECOMMENDED FUTURE RATES

The calculation of new rates, which is determined in order to meet projected rate revenue requirements, are shown in Table 5-6, and are the same for all customer classes. The volume rates in Table 5-6 are the total annual rates on a per acre basis that will be required in addition to the monthly base rate to meet the revenue requirements.

Table 5-6
Calculated Monthly Storm Drain Rates

| Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------|----------|-------------|-------------|-------------|-------------|-------------|
| All Customers | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| Volume Rate | FYE | FYE | FYE | FYE | FYE | FYE |
| (\$/acre) | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| All Customers | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |

BC&A recommends that the rates in Table 5-6 be implemented in order to distribute the cost of service across the various customer classes based on lot size. The same rates calculated in Table 5-6 are shown in a different format in Table 5-7, grouped by customer class for easier comparison to existing rate schedules. The recommended storm drain rates shown include a base rate which is the same for all customer classes. For residential customers, the total fee will be based on the average ERU of 0.3 acres. This equates to a total monthly storm drain charge of \$7.69 for FYE 2013 (e.g. \$3.37 base rate + \$14.40 * 0.3 acres = \$7.69). The same structure will exist for commercial and institutional customer classes, with increasing rates for lots larger than 0.3 acres.

Table 5-7
Recommended Storm Drain Rates

| | FYE | FYE | FYE | FYE | FYE | FYE |
|----------------------------|---------|---------|---------|---------|---------|---------|
| Utility Fees (per month) | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Residential | \$7.69 | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Commercial & Institutional | | | | | | |
| 0.3 acres or less | \$7.69 | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Larger lots | | | | | | |
| Base Rate | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| \$/acre based on lot size | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |

SECTION 6 CONCLUSIONS AND RECOMMENDATIONS

Based on the analysis contained in the previous sections of this report, BC&A would recommend the following actions:

Implement Recommend Structure Changes: A number of small changes in approach to current rate structures have been recommended in the previous chapters. This includes:

- Charge Monthly Base Rates By Meter/Service Size Monthly base rates for water, pressurized irrigation, and sewer have historically been charged on a per ERU basis with definitions of ERU varying between each utility. To better reflect cost-of-service principles and provide a more consistent approach it is recommended that water and sewer rates be charged based on water meter size and pressurized irrigation be charged based on service connection size.
- Reduce Block 1 Division Point to 8,000 gallons/month BC&A would recommend reducing the first block division point for 3/4-inch meters from 10,000 gallons/month to 8,000 gallons per month. This will bring this block closer to the average residential usage (6,000 gallons/month) which will help make the volumetric charges more accurately reflect the cost of service. In addition, BC&A would recommend moving the first block division point for customers who have not connected to the pressurized irrigation system from 6,000 to 8,000 gallons per month to be consistent with the other customer groups.
- Customize Block Sizes by Meter Size The most difficult aspect of an increasing block rate structure is fairly establishing block division points for different sized customers. Currently, the City uses the same block division points for all customers. To be more consistent with cost-of-service principles, BC&A would recommend increasing the block division points for all meters larger than 3/4-inch in proportion to the AWWA equivalent meter ratios for cost-of-service.
- Break Existing Storm Drain Fee into a Base and Volume Charge Storm drain fees are currently charged at a fixed rate per ERU. Like all of the other rates discussed in this report, storm drain rates will be better aligned with cost-of-service if they are divided into two components: monthly base charges and volumetric charges based on lot size.

Adopt the Recommended Rate Increases: It is recommended that the Cedar Hills City adopt the proposed rate increases as summarized below in Tables 6-1 through 6-4. This equates to approximately a 3.7 percent increase in rate revenue in the first year, and approximately 4.0 percent increase in rate revenue in subsequent years.

Table 6-1
Recommended Culinary Water Rates

Monthly Base Rate (\$/month)

| Meter Size | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------|----------|----------|----------|----------|----------|----------|
| 3/4 and smaller | \$6.06 | \$6.41 | \$6.80 | \$7.21 | \$7.68 | \$8.10 |
| 1 | \$7.57 | \$8.01 | \$8.51 | \$9.02 | \$9.60 | \$10.14 |
| 1 1/2 | \$9.59 | \$10.15 | \$10.79 | \$11.43 | \$12.17 | \$12.86 |
| 2 | \$15.15 | \$16.04 | \$17.06 | \$18.07 | \$19.23 | \$20.32 |
| 3 | \$56.05 | \$59.38 | \$63.24 | \$66.92 | \$71.22 | \$75.31 |
| 4 | \$71.21 | \$75.43 | \$80.35 | \$85.01 | \$90.47 | \$95.68 |
| 6 | \$106.56 | \$112.88 | \$120.26 | \$127.23 | \$135.40 | \$143.20 |
| 8 | \$146.96 | \$155.68 | \$165.88 | \$175.48 | \$186.74 | \$197.51 |
| 10 | \$202.51 | \$214.53 | \$228.60 | \$241.82 | \$257.34 | \$272.19 |

Block Volume Rates (\$/kgal)

Customers Connected to Pressurized Irrigation System

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$3.18 | \$3.41 | \$3.62 | \$3.89 | \$4.13 | \$4.43 |
| Block 4 Rate | \$4.21 | \$4.51 | \$4.79 | \$5.15 | \$5.48 | \$5.88 |

Customers with No Pressurized Irrigation Available

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 |
| Block 4 Rate | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 |

Customers Not Connected to Pressurized Irrigation System

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$2.10 | \$2.24 | \$2.38 | \$2.54 | \$2.70 | \$2.88 |
| Block 2 Rate | \$3.23 | \$3.47 | \$3.68 | \$3.95 | \$4.19 | \$4.49 |
| Block 3 Rate | \$4.24 | \$4.55 | \$4.83 | \$5.19 | \$5.51 | \$5.91 |
| Block 4 Rate | \$5.26 | \$5.64 | \$5.99 | \$6.44 | \$6.85 | \$7.35 |

Table 6-2 Recommended Pressurized Irrigation Rates

| Utility Fees (per month) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------------------|----------|----------|----------|----------|----------|----------|
| Base Rate | | | | | | |
| 1-inch connection | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 |
| 1 1/2-inch connection | \$31.90 | \$31.90 | \$31.90 | \$31.90 | \$31.90 | \$31.90 |
| 2-inch connection | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 |
| 3-inch connection | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 |
| 4-inch connection | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 |
| Lot size-1/4 acre or less | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 |
| 1/4 acre to 1/3 acre | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 |
| 1/3 acre to 1/2 acre | \$25.95 | \$25.95 | \$25.95 | \$25.95 | \$25.95 | \$25.95 |
| Larger lots (\$/acre) | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 |

Table 6-3
Recommended Sewer Rates

| Monthly Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| 3/4-inch water meter | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.56 |
| 1-inch water meter | \$17.18 | \$17.18 | \$17.18 | \$17.18 | \$17.18 | \$17.26 |
| 1 1/2-inch water meter | \$22.09 | \$22.09 | \$22.09 | \$22.09 | \$22.09 | \$22.20 |
| 2-inch water meter | \$35.59 | \$35.59 | \$35.59 | \$35.59 | \$35.59 | \$35.76 |
| 3-inch water meter | \$135.00 | \$135.00 | \$135.00 | \$135.00 | \$135.00 | \$135.64 |
| 4-inch water meter | \$171.82 | \$171.82 | \$171.82 | \$171.82 | \$171.82 | \$172.63 |
| 6-inch water meter | \$257.73 | \$257.73 | \$257.73 | \$257.73 | \$257.73 | \$258.95 |
| 8-inch water meter | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$357.60 |
| 10-inch water meter | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$493.24 |
| Total Volume Rate (\$/kgal) | | | | | | |
| All Customers | \$3.13 | \$3.43 | \$3.74 | \$4.06 | \$4.41 | \$4.77 |

Table 6-4
Recommended Storm Drain Rates

| Utility Fees (per month) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|----------------------------|----------|----------|----------|----------|----------|----------|
| Residential | \$7.69 | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Commercial & Institutional | | | | | | |
| 0.3 acres or less | \$7.69 | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Larger lots | | | | | | |
| Base Rate | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| \$/acre based on lot size | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |

For comparison purposes, Tables 6-5 through 6-7 show the existing and proposed future rates for Cedar Hills City and other communities along the Wasatch Front. The tables show the average annual bill that each municipality charges a residential connection for water (culinary & pressurized irrigation), sewer, and storm drain, respectively. For Cedar Hills City, the future rate shown assumes the City adopts the rates recommended in this report. For all other cities, future rates are simply based on a constant annual inflation of 3 percent. This likely underestimates future rates for most cities, but provides a starting point for comparison. This same information is shown graphically in Figures 6-1 through 6-3.

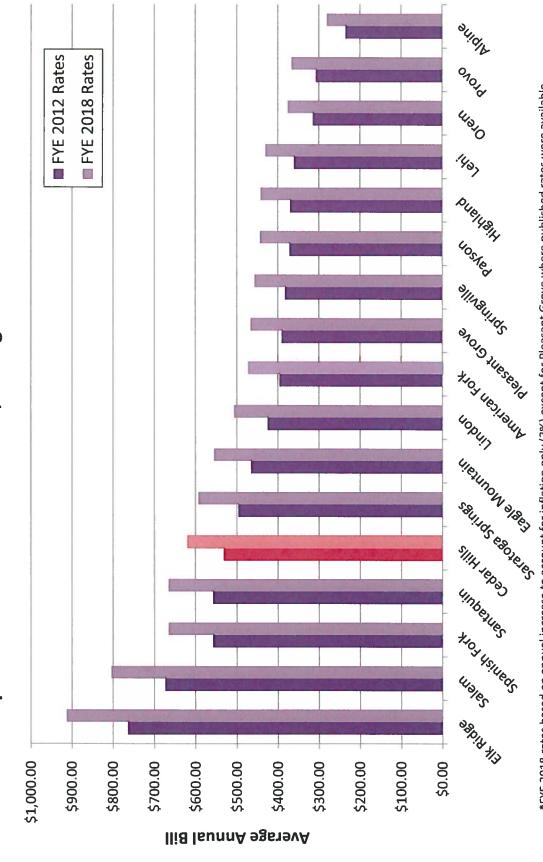
Table 6-5
Water Rate Comparison

| | Cost per | Cost per |
|------------------|--------------|-------------------|
| | Average | Average |
| | Residential | Residential |
| | Connection 1 | Connection |
| | for FYE | for FYE |
| City | 2012 | 2018 ² |
| Elk Ridge | \$764.67 | \$913.06 |
| Salem | \$673.62 | \$804.34 |
| Spanish Fork | \$557.56 | \$665.76 |
| Santaquin | \$557.56 | \$665.76 |
| Cedar Hills | \$530.76 | \$619.08 |
| Saratoga Springs | \$496.66 | \$593.03 |
| Eagle Mountain | \$464.74 | \$554.92 |
| Lindon | \$424.44 | \$506.81 |
| American Fork | \$395.52 | \$472.27 |
| Pleasant Grove | \$390.58 | \$466.37 |
| Springville | \$382.13 | \$456.28 |
| Payson | \$371.29 | \$443.34 |
| Highland | \$369.69 | \$441.43 |
| Lehi | \$359.92 | \$429.77 |
| Orem | \$314.19 | \$375.16 |
| Provo | \$306.40 | \$365.86 |
| Alpine | \$234.94 | \$280.53 |

¹ Based on 8,000 gal/month indoor and 8,000 gal/month May and October, 26,000 gal/month June and September and 50,000 gal/month July and August outdoor (if metered) per average residential connection

² Assumes other City rates are inflated at 3.0% annually

Comparison of Annual Water Rates, Average Residential Customer Figure 6-1



*FYE 2018 rates based on annual increase to account for inflation only (3%) except for Pleasant Grove where published rates were available

through 2014.

ONON 420 ■ FYE 2012 Rates ■ FYE 2018 Rates *10 4 YSILEDS Comparison of Annual Sewer Rates, Average Residential Customer HOSARA allasultas Uples 400417 enoto alleseeld PUEIVEIN Figure 6-2 1407 80/h 4/13 SIIH TEPOS Salitoly edopetes 4Inbesues Philip URALINON SIRES *10 JUESHOUN Average Annual Bill \$500.00 \$300.00 \$0.00 \$700.00 \$600.00 \$100.00 \$800.00 \$200.00

*FYE 2018 rates based on annual increase to account for inflation only (3%)

4Inberues ■ FYE 2012 Rates ■ FYE 2018 Rates Wales 80/4 1/3 Comparison of Annual Storm Drain Rates, Average Residential Customer UEQUIDON SIRES *Ilingulas Salitoly edopeles YOYO ONON Figure 6-3 1407 ONIGIA *LOT YSILIEDS HOSARA PURILA *10 JUESTIBUL \$111₁₄ 1800 enoto these eld \$80.00 \$60.00 \$40.00 \$20.00 \$0.00 \$140.00 \$100.00 \$120.00 Ilia IsunnA egerevA

*FYE 2018 rates based on annual increase to account for inflation only (3%)

Table 6-6 Sewer Rate Comparison

| City | Cost per Average Residential Connection for FYE 2012 | Cost per Average Residential Connection for FYE 2018 ² |
|------------------|--|--|
| American Fork | \$561.00 | \$669.86 |
| Eagle Mountain | \$516.00 | \$616.13 |
| Alpine | \$507.60 | \$606.10 |
| Santaquin | \$504.00 | \$601.80 |
| Saratoga Springs | \$468.36 | \$559.25 |
| Cedar Hills | \$435.60 | \$620.64 |
| Elk Ridge | \$432.00 | \$515.83 |
| Lehi | \$408.00 | \$487.17 |
| Highland | \$406.92 | \$485.88 |
| Pleasant Grove | \$403.56 | \$481.87 |
| Lindon | \$370.92 | \$442.90 |
| Salem | \$336.00 | \$401.20 |
| Springville | \$325.44 | \$388.59 |
| Payson | \$299.52 | \$357.64 |
| Spanish Fork | \$268.80 | \$320.96 |
| Orem | \$245.28 | \$292.88 |
| Provo | \$238.80 | \$285.14 |

¹ Based on 8,000 gal/month indoor per average residential connection

² Assumes other City rates are inflated at 3.0% annually

Table 6-7
Storm Drain Rate Comparison

| City | Cost per Average Residential Connection for FYE 2012 | Cost per Average Residential Connection for FYE 2018 ¹ |
|------------------|--|--|
| Pleasant Grove | \$92.88 | \$110.90 |
| Cedar Hills | \$87.00 | \$126.00 |
| American Fork | \$72.00 | \$85.97 |
| Highland | \$68.76 | \$82.10 |
| Payson | \$63.12 | \$75.37 |
| Spanish Fork | \$62.64 | \$74.80 |
| Alpine | \$60.00 | \$71.64 |
| Lehi | \$60.00 | \$71.64 |
| Provo | \$60.00 | \$71.64 |
| Orem | \$57.00 | \$68.06 |
| Lindon | \$55.68 | \$66.48 |
| Saratoga Springs | \$53.40 | \$63.76 |
| Springville | \$52.32 | \$62.47 |
| Eagle Mountain | \$36.00 | \$42.99 |
| Elk Ridge | \$36.00 | \$42.99 |
| Salem | \$0.00 | \$0.00 |
| Santaquin | \$0.00 | \$0.00 |

¹ Assumes other City rates are inflated at 3.0% annually

As can be seen in the tables, Cedar Hills City currently has rates right around the upper third or so for both water and sewer when compared with other cities in Utah County. Even with the proposed increases identified in this report, it is expected that Cedar Hills City will remain at about the same spot compared to the other communities surveyed.

Cedar Hills City currently charges one of the highest storm drain fees in the area. This is likely due to the unpopularity of a fee for storm drain utilities amongst residents. Because of this, many cities tend to subsidize their storm drain utilities by paying for their storm drain infrastructure with money collected from other utilities or through taxes. The storm drain rates calculated in this report are based on the assumption that Cedar Hills wants to move toward charging the actual cost-of-service for storm drain. As a result the rates are higher than the subsidized rates in other cities.

² Salem and Santaquin do not charge residents for storm drain.

Consider Multiple Year Rate Schedules: It is recommended that Cedar Hills City pursue adopting multiple year rate schedules (up to the full rate schedules above). By adopting multiple year rate schedules, the City can program small annual increases to the water rates consistent with the results of this report. This will help avoid large rate increases in future years and minimizes the potential for "rate shock" to customers. Small, affordable changes in rate levels and rate structures are more acceptable to the public and benefit the utility in terms of financial stability. If small changes are needed to this multiyear schedule in the future, the City can always revise these rates at that time.

Update This Rate Study Periodically: After the implementation of any change to the rate structure, we would suggest that the City monitor customer responses and demand patterns for a period of one year. Following this initial observation period, the change should be re-examined to determine if there should be any subsequent adjustments. A comprehensive review of this rate study should also be performed in three to five years. The projections, assumptions, and data contained in this report may need to be revised over time. For these reasons, it is prudent to update water and sewer rates to ensure they are sufficient to meet system requirements, as well as maintain cost-of-service equity in charges to customers.

APPENDIX A DETAILED WATER RATE MODEL TABLES

10-Year Budget Plan - Water

| | | Historic Year | | | | Projected Year | d Year | | |
|---|-----------|---------------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
| | FVE 2010 | FYE 2011 | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Total Accounts | 2,237 | 2,237 | 2,365 | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |
| % Growth from Previous Year | | 0.00% | 5.72% | 0.76% | %91.0 | 0.75% | 0.83% | 0.82% | 0.81% |
| Expenditures | | | i | | | | | | |
| 0&M | \$380,244 | \$396,539 | \$447,040 | \$462,150 | \$477,771 | \$493,895 | \$510,762 | \$528,204 | \$546,190 |
| Debt Service | \$182,720 | \$182,777 | \$183,224 | \$182,086 | \$183,364 | \$183,501 | \$183,054 | \$182,995 | \$182,322 |
| Total Capital Expenditures | \$32,308 | \$8,394 | \$258,300 | \$31,128 | \$32,298 | \$333,510 | \$134,793 | \$36,126 | \$37,502 |
| Total Expenditures | \$595,272 | \$587,710 | \$888,564 | \$675,364 | \$693,433 | 21,010,906 | 8828,609 | \$747,325 | \$766,014 |
| | | | | | 1 | | i | 4 | 6 |
| Capital Expenditures from Bond Proceeds | \$0 | 20 | 20 | 80 | 20 | \$0 | 20 | \$0 | 20 |
| Capital Expenditures from Reserves | \$32,308 | \$8,394 | \$258,300 | \$31,128 | \$32,298 | \$333,510 | \$134,793 | \$36,126 | \$37,502 |
| Income | | i | | | į | | | | |
| Water Lateral Inspections | \$1,050 | \$825 | \$1,050 | \$1,058 | \$1,066 | \$1,074 | \$1,083 | \$1,092 | \$1,101 |
| Water Meters | \$5,250 | \$650 | \$7,250 | \$7,523 | \$7,805 | \$8,098 | \$8,408 | \$8,730 | \$9,063 |
| Connection Fees | \$35,207 | \$21,670 | \$25,800 | \$30,109 | \$30,109 | \$30,109 | \$33,455 | \$33,455 | \$33,455 |
| Other Non-Rate | \$78,524 | \$216,753 | \$191,603 | \$194,333 | \$197,019 | \$190,513 | \$195,196 | \$189,437 | \$194,127 |
| Sales - Existing Rates | \$438,462 | \$431,147 | \$440,000 | \$443,349 | \$446,698 | \$450,047 | \$453,767 | \$457,488 | \$461,209 |
| Projected Income - Existing Rates | \$558,493 | \$671,045 | \$665,703 | \$676,371 | 8682,698 | 1+8'6298 | 016'1698 | 8690,203 | \$698,955 |
| | | | | | | | | | |
| System Investment Goal | \$308,081 | \$317,323 | \$345,000 | \$357,976 | \$371,419 | \$385,346 | \$400,092 | \$415,376 | \$431,216 |
| Recommended Long-term Level of Funding | \$688,325 | \$713,863 | \$792,040 | \$820,126 | \$849,190 | \$879,241 | \$910,854 | \$943,580 | \$977,406 |
| | | | | | | | | | |
| Recommended Rate Increases | | | | 6.4% | 6.4% | 6.4% | 6.4% | 6.4% | 6.4% |
| Sales Revenue With Increase | \$438,462 | \$431,147 | \$440,000 | \$471,723 | \$505,705 | \$542,104 | \$581,567 | \$623,862 | \$669,188 |
| Projected Income - Recommended Rates | \$558,493 | \$671,045 | \$665,703 | 8704,746 | \$741,705 | 8771,898 | 8819,710 | 8856,576 | 8906,933 |

Table 1
Cedar Hills - Water Rate Study
Historical Water Use
(kgal)

| | The state of the s | FYE 2010 | | | FYE 2011 | | | FYE 2012 | | | |
|----------------|--|----------|---------|---------|----------|---------|---------|----------|---------|-----------|--------------|
| | | | Use per | | | Use per | | | Use per | Planning | Use/Acct. |
| Customer Class | Use | Accounts | Account | Use | Accounts | Account | Use | Accounts | Account | Use/Acct. | (kgal/month) |
| Residential | 162,990 | 2,221 | 73.4 | 162,990 | 2,221 | 73.4 | 172,383 | 2,349 | 73.4 | 73.4 | 1.9 |
| Commercial | 5,453 | 7 | 0.677 | 5,453 | 7 | 0.677 | 5,453 | 7 | 0.677 | 779.0 | 64.9 |
| Institutional | 7,682 | 6 | 853.6 | 7,682 | 6 | 853.6 | 2,682 | 6 | 298.0 | 298.0 | 24.8 |
| Total | 176,125 | 2,237 | 78.7 | 176,125 | 2,237 | 78.7 | 180,518 | 2,365 | 76.3 | 76.3 | 6.4 |

Table 2
Cedar Hills - Water Rate Study
Projected Accounts

| | | | | Num | Number | | |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|
| Customer Class | | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| | % Growth | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | | 2,367 | 2,385 | 2,403 | 2,423 | 2,443 | 2,463 |
| Commercial | | 7 | 7 | 7 | 7 | 7 | 7 |
| Institutional | | 6 | 6 | 6 | 6 | 6 | 6 |
| Total | | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |
| Additional Connections Year | Year | 81 | 18 | 18 | 20 | 20 | 20 |

Table 3
Cedar Hills - Water Rate Study
Projected Annual Water Use

| | Planning | | | Amount (kgal | (kgal) | | |
|----------------|-----------|----------|----------|--------------|----------|----------|----------|
| Customer Class | Use/Acct. | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 73.4 | 173,704 | 175,025 | 176,346 | 177,814 | 179,282 | 180,749 |
| Commercial | 779.0 | 5,453 | 5,453 | 5,453 | 5,453 | 5,453 | 5,453 |
| Institutional | 298.0 | 2,682 | 2,682 | 2,682 | 2,682 | 2,682 | 2,682 |
| Total | | 181,839 | 183,160 | 184,481 | 185,949 | 187,417 | 188,884 |

Table 4
Cedar Hills - Water Rate Study
Peaking Factors

| | Max. Mo./ | Est. Peak |
|----------------|-----------|------------|
| Customer Class | Avg. Mo. | Day Factor |
| Residential | 1.18 | 1.18 |
| Commercial | 1.18 | |
| Institutional | 1.18 | 1.18 |
| System | 1.18 | |
| | | |

System Peak Day to Average Day Factor 1.13

Table 5
Cedar Hills - Water Rate Study
Projected Water Peaking Characteristics

| | | | Estimated Peak Day (kgal) | k Day (kgal) | | | | | Excess Over | Excess Over Average (kgal) | | |
|----------------|----------|----------|---------------------------|--------------|----------|----------|----------|----------|-------------|----------------------------|----------|----------|
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 561.56 | 565.84 | 570.11 | 574.85 | 579.60 | 584.34 | 85.66 | 16.31 | 86.97 | 87.69 | 88.41 | 89.14 |
| Commercial | 17.63 | 17.63 | 17.63 | 17.63 | 17.63 | 17.63 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 |
| Institutional | 29'8 | 8.67 | 29 8 | 8.67 | 8.67 | 29.8 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 |
| Total | 587.86 | 592.13 | 596.41 | 601.15 | 68'509 | 610.64 | 29.68 | 90.33 | 86.06 | 91.70 | 92.42 | 93.15 |

Table 6
Cedar Hills - Water Rate Study
Projected Summer Water Use (May through October)

Number of Summer Months = 6

| | Cummon | | | Summer Ilea (Lan) | lles (beal) | | |
|----------------|---------|----------|----------|-------------------|-------------|----------|----------|
| Customer Class | Percent | FYE 2013 | FYE 2014 | FYE 2015 | FVE 2016 | FYE 2017 | FYE 2018 |
| Residential | 52.4% | ı | 61,719 | 92,411 | 93,180 | 93,949 | 94,718 |
| Commercial | 52.4% | 2,858 | 2,858 | 2,858 | 2,858 | 2,858 | 2,858 |
| Institutional | 52.4% | 1,405 | 1,405 | 1,405 | 1,405 | 1,405 | 1,405 |
| Total | | 95,290 | 95,982 | 96,674 | 97,443 | 98,212 | 186,981 |

Table 7 Cedar Hills - Water Rate Study Block Water Use

| Meter Size Block 1 3/4" and smaller 8 1" 10 11/2" 13 2" 21 3" 80 | Upper Block Limits (kgal Block 2 Block 3 | | | | | | |
|--|---|---------------|---------|---------|-------------------------|-------------|---------|
| | Block 2 | Limits (kgal) | | | 2011 Total Use by Block | Se by Block | |
| | | Block 3 | Block 4 | Block 1 | Block 2 | Block 3 | Block 4 |
| | 12 | 18 | + | 130,252 | 17,921 | 5,239 | 6,987 |
| | 15 | 23 | + | 009 | 300 | 480 | 522 |
| 2" 21 3" 80 | 20 | 29 | + | 1,560 | 840 | 1,080 | 269 |
| 3," 80 | 32 | 47 | + | 0 | 0 | 0 | 0 |
| | 120 | 180 | + | 096 | 480 | 720 | 821 |
| 4" | 153 | 229 | + | 0 | 0 | 0 | 0 |
| 6" 153 | 229 | 344 | + | 0 | 0 | 0 | 0 |
| 8" 211 | 316 | 475 | + | 0 | 0 | 0 | 0 |
| 10" | 436 | 655 | + | 0 | 0 | 0 | 0 |
| Total - | - | - | *** | 133372 | 19541 | 7519 | 0098 |
| Percentage of Total Use | ı | 1 | 1 | 78.9% | 11.6% | 4.4% | 5.1% |

| Summary | | | | | | Ĭ | | |
|----------------|---------|-----------|--------------------|---------|---------|-------------------------|-------------|---------|
| FYE 2012 | | Total Use | Total Use By Block | | | Percentage of Total Use | f Total Use | |
| Customer Class | Block 1 | Block 2 | Block 3 | Block 4 | Block 1 | Block 2 | Block 3 | Block 4 |
| Residential | 136,017 | 19,928 | 7,668 | 8,770 | 78.9% | 11.6% | 4.4% | 5.1% |
| Commercial | 4,303 | 630 | 243 | 277 | 78.9% | 11.6% | 4.4% | 5.1% |
| Institutional | 2,116 | 310 | 119 | 136 | 78.9% | 11.6% | 4.4% | 5.1% |
| Total | 142,436 | 20,869 | 8,030 | 9,184 | 78.9% | 11.6% | 4.4% | 5.1% |
| | | | | | | | | |

Table 8 Cedar Hills - Water Rate Study Meters and Equivalent Meters

| 34 and smaller 1 11/2 2,349 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Size (Inches) | 100 | | | | | |
|---|---|---------------|------|------|------|------|--------|------------------|
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | , | 9) | | | | | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 0 0 0 | , | | | | | | |
| 0 5 0 8 0.2% | 0 0 0 | 3 | 4 | 6 | 8 | 10 | Total | Total % of Total |
| 5 0 5 | 0 6 | 0 | 0 | 0 | 0 | 0 | 2,349 | 99.3% |
| 0 5 | 0 6 | 1 | 0 | 0 | 0 | 0 | 7 | 0.3% |
| 5.0.2% | | 0 | 0 | 0 | 0 | 0 | 6 | 0.4% |
| 0.2% | 0 0 | - | 0 | 0 | 0 | 0 | 2,365 | 100.0% |
| | %0.0 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | |
| | | | | | | | | |
| | | | | | | | | |
| 1.0 1.3 1.6 | 5 2.6 | 10.0 | 12.7 | 161 | 26.4 | 36.4 | | |

Equivalent Meters

| | | | | | Size (Inches) | 8) | | | | | |
|----------------|---------|------|------|------|---------------|------|------|------|------|--------|------------|
| | 3/4 and | | | | | | | | | | |
| Customer Class | smaller | _ | 11/2 | 2 | 3 | 4 | 9 | 8 | 10 | Total | % of Total |
| Residential | 2,349 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,349 | %9.86 |
| Commercial | 0 | 9 | 2 | 0 | 01 | 0 | 0 | 0 | 0 | 18 | 0.8% |
| Institutional | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | %9'0 |
| All Classes | 2,349 | 9 | 16 | 0 | 10 | 0 | 0 | 0 | 0 | 2,382 | 100.0% |
| % of Total | %9'86 | 0.3% | 0.7% | 0.0% | 0.4% | %0.0 | %0.0 | %0.0 | %0.0 | 100.0% | |

Table 9
Cedar Hills - Water Rate Study
Projected Number of Equivalent Meters by Size

| Customer Class | FYE 2013 | FY | E 2014 FYE 2015 FY | FYE 2016 FY | FYE 2017 | FYE 2018 |
|----------------|----------|-------|--------------------|-------------|-----------------|----------|
| Residential | 2,367 | 2,385 | 2,403 | 2,423 | 2,443 | 2,463 |
| Commercial | 81 | 81 | 18 | 18 | 81 | 81 |
| Institutional | 15 | 15 | 15 | 15 | 15 | 15 |
| All Classes | 2,400 | 2,418 | 2,436 | 2,456 | 2,476 | 2,496 |

Table 10 Cedar Hills - Water Rate Study Connection Fee Revenue

| | 2012 | Projected |
|-------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Size of Meter | Impact Fee | FYE 2012 | FYE 2013 | FYE 2014 | FVE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| 3/4 and smaller | \$1,661 | | \$29,696 | \$29,696 | \$29,696 | \$32,995 | \$32,995 | \$32,995 |
| | \$2,114 | | \$80 | \$80 | \$80 | 883 | \$89 | 68\$ |
| 1 1/2 | \$2,718 | | \$207 | \$207 | \$207 | \$230 | \$230 | \$230 |
| 2 | \$4,379 | | \$0 | \$0 | 0\$ | 0\$ | \$0 | 0\$ |
| 3 | \$16,610 | | \$126 | \$126 | \$126 | \$140 | \$140 | \$140 |
| 4 | \$21,140 | | 0\$ | \$0 | 0\$ | 0\$ | \$0 | 0\$ |
| 9 | \$31,710 | | \$0 | \$0 | 0\$ | 0\$ | \$0 | \$0 |
| 8 | \$43,790 | | \$0 | \$0 | 0\$ | 0\$ | \$0 | \$0 |
| 10 | \$60,400 | | \$0 | \$0 | 0\$ | 0\$ | \$0 | \$0 |
| Total Impact Fee Revenue | | \$25,800 | \$30,109 | \$30,109 | \$30,109 | \$33,455 | \$33,455 | \$33,455 |
| and an analysis of the second | | 2001 | 1 | | 2016000 | | ٦. | |

Table 11
Cedar Hills - Water Rate Study
Non-Rate Revenue (Including Connection Fees)

| Assumed Inflation Rate = | 3.0% | | | | | | |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Projected |
| fem | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Operations | | | | | | | |
| Water Fees - American Fork City | \$18,000 | \$18,677 | \$19,379 | \$20,106 | \$20,876 | \$21,675 | \$22,501 |
| Water Fees - Contractors | \$2,100 | \$2,179 | \$2,261 | \$2,346 | \$2,436 | \$2,529 | \$2,625 |
| Transfer from P1 | \$171,503 | \$173,477 | \$175,380 | \$168,062 | \$171,885 | \$165,233 | \$169,001 |
| otal Operations Non-Rate Revenue | \$191,603 | \$194,333 | \$197,019 | \$190,513 | \$195,196 | \$189,437 | \$194,127 |
| | | | | | | | |
| Non-Operations | | | | | | | |
| Connection Fees | \$25,800 | \$30,109 | \$30,109 | \$30,109 | \$33,455 | \$33,455 | \$33,455 |
| Water Lateral Inspections | \$1,050 | \$1,058 | \$1,066 | \$1,074 | \$1,083 | \$1,092 | 101,18 |
| Water Meters | \$7,250 | \$7,523 | \$7,805 | \$8,098 | \$8,408 | \$8,730 | \$9,063 |
| otal Non-Operations Non-Rate Revenue | 834,100 | \$38,690 | \$38,981 | \$39,282 | \$42,946 | \$43,277 | \$43,619 |
| otal Non-Rate Revenue | \$225,703 | \$233,023 | \$236,000 | \$229,795 | \$238,143 | \$232,714 | \$237,746 |
| | | | | | | | |

Table 12
Cedar Hills - Water Rate Study
Revenue Requirements
Cash Basis

| | Projected | Projected | Projected | Projected | Projected | Projected | Prniected |
|--|---|------------|------------|-------------|------------|------------|------------|
| Item | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| O&M | | | | | | | |
| Salary & Wages (Full-Time) | \$129,840 | \$134,229 | \$138,766 | \$143,449 | \$148,348 | \$153,414 | \$158,637 |
| Overtime | \$2,010 | \$2,078 | \$2,148 | \$2,221 | \$2,297 | \$2,375 | \$2,456 |
| Salary & Wages (Part-Time) | \$6,090 | \$6,296 | \$6,509 | \$6,728 | \$6,958 | \$7,196 | \$7,441 |
| Employee Benefits | \$74,880 | \$77,411 | \$80,027 | \$82,728 | \$85,554 | \$88,475 | \$91,488 |
| Dues & Subscriptions | \$1,200 | \$1,241 | \$1,282 | \$1,326 | \$1,371 | \$1,418 | \$1,466 |
| Education & Training | \$2,100 | \$2,171 | \$2,244 | \$2,320 | \$2,399 | \$2,481 | \$2,566 |
| Computer Expenses | \$1,800 | \$1,861 | \$1,924 | 81,989 | \$2,057 | \$2,127 | \$2,199 |
| Office Equipment | 009\$ | \$620 | \$641 | \$663 | \$686 | 602\$ | \$733 |
| Tools & Equipment | \$2,700 | \$2,791 | \$2,886 | \$2,983 | \$3,085 | \$3,190 | \$3,299 |
| Utilities | \$162,000 | \$167,476 | \$173,136 | \$178,980 | \$185,092 | \$191,413 | \$197,930 |
| Blue Stakes | 006\$ | \$930 | \$962 | \$994 | \$1,028 | \$1,063 | \$1,100 |
| Communications & Telephone | \$1,200 | \$1,241 | \$1,282 | \$1,326 | \$1,371 | \$1,418 | \$1,466 |
| Engineering Services | \$600 | \$620 | \$641 | \$663 | 9898 | \$709 | \$733 |
| Professional & Technical | \$3,600 | \$3,722 | \$3,847 | \$3,977 | \$4,113 | \$4,254 | \$4,398 |
| Insurance | \$7,500 | \$7,754 | \$8,016 | \$8,286 | \$8,569 | \$8,862 | \$9,163 |
| Credit Card Fees | \$7,200 | \$7,443 | \$7,695 | \$7,955 | \$8,226 | \$8,507 | \$8,797 |
| Trustee Fees | \$2,820 | \$2,915 | \$3,014 | \$3,116 | \$3,222 | \$3,332 | \$3,445 |
| Water Supplies | \$3,500 | \$3.618 | \$3,741 | \$3,867 | \$3,999 | \$4.135 | \$4.276 |
| Meter Installation & Maintenance | \$30,000 | \$31,014 | \$32,062 | \$33,144 | \$34.276 | \$35,447 | \$36,654 |
| Water Testing | \$6,500 | \$6.720 | \$6.947 | \$7.181 | \$7,427 | \$7.680 | \$7,942 |
| Total O&M | \$447,040 | \$462,150 | \$477,771 | \$493,895 | \$510,762 | \$528,204 | \$546,190 |
| | | | | | | | |
| | 0 | 001 314 | 001.714 | 0.00 | 0.0 | 000 | 000 |
| 71 | \$46,279 | \$45,499 | \$46,189 | \$46,819 | \$45,919 | \$46,489 | \$45,499 |
| 2007 Utility Revenue Bond - Well | \$136,945 | \$136,588 | \$137,176 | \$136,683 | \$137,135 | \$136,506 | \$136,824 |
| Total Debt Service | \$183,224 | \$182,086 | \$183,364 | \$183,501 | \$183,054 | \$182,995 | \$182,322 |
| | | | | | | | |
| Capital Improvements Growth Related | | | | | | | |
| Water Construction Projects | 030 000 | \$21.128 | £17 798 | 633 510 | £34 703 | 961 983 | \$37.502 |
| Wall Durchard/Construction | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
| Well Fulchase/Consultation | 05 | 04 | OF US | 9 | 000 000 | 05 | 06 |
| INIETATORY INTEREST INTEREST | 300 | 06 | 000 | 06 | 000,0016 | 08 | 200 |
| 4800 West Water Main Installation | 381,300 | 30 | 08 | 20 | 20 | 05 | 20 |
| 4500 West Sewer Relocation* | \$147,000 | \$0 | \$0 | 20 | \$0 | 20 | \$0 |
| Manilla Water Upgrades (estimate) | | \$0 | \$0 | \$300,000 | \$0 | 20 | \$0 |
| Irrigation Pump Pond 12 | | \$0 | \$0 | 20 | 20 | 20 | \$0 |
| Irrigation Pump Pond 10 | | \$0 | \$0 | 80 | 80 | 80 | \$0 |
| Harvey Well Chlorination Station | | 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 |
| Cottonwood Well Chlorination Station | | 0\$ | \$0 | 0\$ | \$0 | 80 | \$0 |
| Bond Revenue | | | | | | | |
| Transfer to/(from) Reserve Fund | (\$222,862) | \$29,382 | \$48,272 | (\$239,008) | (\$8,899) | \$109,251 | \$140,919 |
| Total Capital Outlays | \$ 35,438 | \$60,510 | \$80,570 | \$94,502 | \$125,894 | \$145,376 | \$178,421 |
| | | | | | | | |
| Gross Revenue Requirements | \$ 665,703 | \$704,746 | \$741,705 | 841178 | \$819,710 | 8856,576 | \$906,933 |
| LESS | | | | | | | |
| Operations Non-Rate Revenue | \$191,603 | \$194,333 | \$197,019 | \$190,513 | \$195,196 | \$189,437 | \$194,127 |
| Expansion Non-Rate Revenue | | - 1 | | | \$42,946 | \$43,277 | |
| Net Revenue Requirements | \$ 440,000 | \$ 471,723 | \$ 505,705 | \$ 542,104 | \$ 581,567 | \$ 623,862 | \$ 669,188 |

Table 13
Cedar Hills - Water Rate Study
Cost Allocation Percentages to Service Characteristics

| | Average | Peak | Billing & | Meters & | |
|----------------------------------|---------|------|------------|----------|-------|
| Item | Demand | Day | Collection | Services | Total |
| O&M | | | | | |
| Salary & Wages (Full-Time) | 20% | 2% | %5 | 40% | %001 |
| Overtime | 20% | 2% | %5 | 40% | %001 |
| Salary & Wages (Part-Time) | 20% | 2% | 2% | 40% | 100% |
| Employee Benefits | 20% | 2% | 2% | 40% | 100% |
| Dues & Subscriptions | 20% | 2% | 2% | 40% | 100% |
| Education & Training | 20% | 2% | %5 | 40% | 100% |
| Computer Expenses | %0 | %0 | %001 | %0 | 100% |
| Office Equipment | %0 | %0 | %001 | %0 | 100% |
| Tools & Equipment | %09 | 20% | %0 | 20% | 100% |
| Utilities | 25% | 15% | %0 | 30% | %001 |
| Blue Stakes | %0 | %0 | 20% | 20% | 100% |
| Communications & Telephone | %0 | %0 | %001 | %0 | 100% |
| Engineering Services | 20% | 2% | %5 | 40% | 100% |
| Professional & Technical | 20% | 2% | 2% | 40% | 100% |
| Insurance | 20% | 2% | 2% | 40% | 100% |
| Credit Card Fees | %0 | %0 | %001 | %0 | 100% |
| Trustee Fees | 20% | 5% | 2% | 40% | 100% |
| Water Supplies | %02 | 30% | %0 | %0 | %001 |
| Meter Installation & Maintenance | %0 | %0 | %0 | 100% | 100% |
| Water Testing | 20% | 2% | %5 | 40% | 100% |

Table 14
Cedar Hills - Water Rate Study
Fixed Assets Allocations to Service Characteristics

| | | | Percent | | | | | All | Allocated Amouni | 11 | |
|---------------------|--------------|---------|---------|------------|----------|-------|-------------|-------------|------------------|-------------|--------------|
| | | Average | Peak | Billing & | Meters & | | Average | Peak | Billing & | Meters & | |
| Item | Assets | Demand | Day | Collection | Services | Total | Demand | Day | Collection | Services | Total |
| Booster Stations | \$154,624 | %09 | 20% | %0 | 20% | %001 | \$92,774 | \$30,925 | \$0 | \$30,925 | \$154,624 |
| Land | \$46,300 | 20% | 20% | 40% | 20% | %001 | \$9,260 | \$9,260 | \$18,520 | \$9,260 | \$46,300 |
| Main Lines | \$5,365,118 | %09 | %51 | %0 | 25% | %001 | \$3,219,071 | \$804,768 | \$0 | \$1,341,280 | \$5,365,118 |
| Meters and Hydrants | \$418,657 | %0 | %0 | %0 | %001 | %001 | 0\$ | 0\$ | 0\$ | \$418,657 | \$418,657 |
| Storage Tanks | \$1,566,830 | 20% | 30% | %0 | 20% | 100% | \$783,415 | \$470,049 | \$0 | \$313,366 | \$1,566,830 |
| Wells | \$2,696,813 | 25% | 20% | %0 | 25% | 100% | \$1,483,247 | \$539,363 | \$0 | \$674,203 | \$2,696,813 |
| Total | \$10,248,342 | | | | | | \$5,587,767 | \$1,854,364 | \$18,520 | \$2,787,691 | \$10,248,342 |
| Percent | | | | | | | 54.5% | 18.1% | 0.7% | 27.2% | 100.0% |

Table 15 C'edar IIBb - Water Rate Study Jocation of Odi M Costs to Service Characterist

| liens (MAA) | | ĺ | 1.5. V. 0.00 E | | ŀ | | | 12 C 1014 | | - | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 241.6 | | | | 13 17 2016 | | Ī | | 2 | LA E 9817 | | _ | | 1 | 2000 | |
|----------------------------------|-----------|----------|----------------|-----------|-----------|-----------|----------|------------|---------------|------------|--------------|---------------------------------------|--------------------|---------------|--------------|----------|------------|----------|-----------|-----------|----------|-----------|----------|-------------|-------------|-----------|------------------|-------------------|
| Hem. CAGAS | | ŀ | ŀ | Martin A. | + | The same | r | F | Clates & I | 1 | Average P. | r | to A Meters | - | Asersas | ŀ | A market | Meters & | İ | Average | F | F | Meters A | 1 | ŀ | ŀ | See & Meters | 440 |
| LIGHT | Demond | ller | Collection | Nerrotors | Total | Pensand | Day | Callection | | Total | _ | Day Colle | - | Total | Demand | Ibay | Collection | Services | Total | Demand | Bay Col | _ | r | Total | Demand | Ilay Call | Calleytien Servi | birgs Total |
| | | - | | - | - | - | - | - | - | L | | | | | | | | | | r | - | H | - | F | - | H | - | ŀ |
| Salary & Wages (Full-Time) | \$67.114 | 111.98 | 111 08 | \$53 691 | 8111239 | \$600 183 | \$6.638 | \$6.438 | \$ 155.416 \$ | 1 18,7hb i | \$71,724 | \$7,172 | \$7,172 8573 | 330 \$143.449 | 19 \$74174 | 4 87.417 | \$7.417 | \$10.119 | \$148.648 | \$76,717 | \$7.671 | \$7.671 | \$61,365 | \$151414 37 | 73 118 72 | 17.912 | Ц | 563 455 \$138 65 |
| Chertine | \$1.039 | Silk | \$104 | \$131 | \$2.078 | \$1.074 | \$107 | 1011 | 6585 | \$2.148 | 011115 | | | \$4XE \$2.221 | | | | \$916 | \$2,297 | \$1,127 | 6118 | \$119 | 8940 | | \$1.238 | \$178 | \$17.6 | |
| Salary & Wayes (Part-Time) | \$3.14k | \$315 | \$315 | 87.518 | Sc 28 | 77.55 | \$21.8 | 122.1 | \$2001 | L | \$3.964 | 3316 | \$110 \$2.691 | Ц | | 5 548 | SHE | \$2.723 | 246 VS | \$3,598 | \$360 | \$ 960 | \$2.878 | \$7,196 | \$1.730 | \$172 | | |
| Employee Persents | \$48 705 | 11271 | 11818 | 190 OKS | \$77.411 | 110.013 | SHIM | \$4001 | \$124011 | L | L | | | Ц | 247777 | 2 | | \$14,221 | SELVE | \$44.212 | \$4.424 | \$4.424 | 114 190 | | \$41.744 | 14.174 | _ | No 195 \$91.482 |
| Dans & Subscriptums | T OF | 205 | 205 | \$-9.Kr | 117718 | 748 | 795 | 35 | \$114 | \$1,282 | Ш | \$50 | \$66 \$3 | \$530 \$1.32 | | 5 Set | 869 | \$148 | \$1,371 | \$70v | \$71 | 17.1 | 1367 | \$1,418 | \$713 | \$73 | | \$120 |
| Education & Transmer | \$300.08 | SHIP | \$ 1173 | \$ 86.8 | \$2.171 | \$1,122 | \$112 | \$113 | 2688 | 1773 | Ш | \$116 | | 128 \$2.130 | 51,200 | | | 0963 | \$2,399 | \$1,241 | \$134 | \$124 | 1665 | \$2.481 | \$1,283 | \$130 | 1212 | |
| Constitute Expenses | 3 | 34 | \$1.861 | ã | \$1,861 | 93 | ŝ | PCh*(\$ | a | \$1,924 | | ľ | 686 11 | 36:15 | | | | 170 | \$2,097 | \$10 | 448 | \$2,127 | 341 | \$2,127 | \$43 | Ç, | \$2,199 | 50 |
| Office Experient | 3 | 33 | \$630 | 93 | \$4.30 | â | 675 | 1641 | 07 | 18-91 | 100 | 05 | \$ee\$ | \$11 \$661 | | | \$6.86 | 90 | \$686 | υŞ | 07 | S Ney | 101 | \$ 7479 | \$01 | DS. | \$733 | |
| Toxis & Examinent | \$1075 | \$448 | Si | 2112 | \$2.7VI | \$1.731 | 1118 | 05 | L | \$2.886 | Ш | 5 W 7 | Ш | 2 | 118 \$1871 | 1 \$617 | 2 | \$617 | \$3.083 | \$1.914 | 1638 | DS. | 26 12 | \$ 3,1981 | \$1,970 | \$660 | 175 | \$661 |
| 1 Teleform | \$92.112 | \$24,121 | 3 | \$10,243 | \$167.476 | 891,225 | 125,970 | ã | Ľ | 1171116 | \$ 044.802 | 26,847 | 100 \$11,004 | 944 \$178.989 | UN \$101 BUD | \$2 | ON. | \$51.128 | \$185,092 | \$105.277 | \$28,712 | os. | | Ц | \$ 104 86.2 | 139 671 | | |
| Mare Stallers | R | Si | \$465 | \$46.5 | 1968 | 05 | â | 1447 | 197 | | | 63 | 2462 | | N \$0 | 0.00 | 3 | \$514 | \$1,028 | DS Sto | tris. | \$412 | Ц | \$31,163 | 175 | (OS | 13561 | 8 5 40 |
| Communications & Telephanic | 93 | ŝ | 11.2.18 | 3 | 14.13 | 3 | 3 | \$1,282 | (1) | \$1,282 | 05 | li | \$1,326 | \$1.12 | | | _ | | \$1.171 | 90 | 30 | 31.416 | Ш | \$1,418 | 50 | \$00 | \$1 460 | П |
| Entweering Services | \$110 | 183 | Ē | \$248 | \$631 | 13421 | \$12 | \$15 | \$2,40 | So-di | 1115 | 111 | 111 3261 | | | | 111 | \$274 | 3646 | 314 | \$115 | 111 | 1284 | \$ 30.69 | \$ 16.7 | \$17 | \$17 | 1 523 |
| Polemoral & Tochwool | \$1.01.42 | \$186 | \$130 | \$1.489 | 27.13 | \$1,924 | \$192 | \$192 | 81,339 | 13 847 | \$1,989 | | L | 141 \$1077 | 12 12057 | 7 \$3th | | \$1 6-15 | HII | 12.127 | \$21.5 | \$213 | Ц | H294 | \$2,199 | \$230 | \$230 | |
| Sapraji spirce | \$4177 | \$ 122 | \$ 188 | \$4,101 | \$7.754 | \$400 | 1448 | 3-401 | \$1,216 | \$2.016 | \$4143 | | \$414 \$1,314 | | | | | \$142 | \$4,569 | 177 | 5441 | iri | \$2.43 | \$1 162 | \$4,682 | 275 | | |
| Crade Card Fees | 20 | ã | \$7.441 | 0\$ | \$1.413 | 3 | 0\$ | 1,697 | 6 | \$1695 | | | | 50.75 | | | 88.236 | OS. | 23.28 | \$1 | \$0 | \$11,507 | \$0 | \$11.507 | | Si. | | |
| Trustee Feet | \$1,448 | \$146 | \$140 | \$1,166 | \$1018 | \$1,917 | \$131 | 1518 | \$1,316 | \$1014 | \$1.518 | 951\$ | \$156 \$1.246 | Ц | | | | | \$1,222 | \$1,666 | \$167 | \$167 | \$1,313 | \$1.112 | \$1,723 | \$172 | | |
| Water Supplies | 111/28 | \$1,1181 | 175 | ã | SIPIR | \$2.618 | \$1,122 | 675 | 30 | 11 741 | | 11,160 | 10 | \$1807 | \$ | 31. | | Ш | 21.00 | 12.095 | \$1.241 | \$n | 30 | 541151 | | \$1.241 | | |
| Meter Installation & Maintenance | lag. | 3 | â | \$34.014 | \$31.054 | â | 3 | 3 | L | \$12,162 | æ | 0% | L | L | L | | 175 | \$ H 276 | 3.H.276 | S4J | 30 | 30 | \$35.447 | \$35.447 | 20 | og. | 30 81 | |
| Wither Texture | 11,160 | \$130 | \$118 | \$2,688 | 45,730 | \$1 173 | \$147 | 147 | \$2.779 | 16.947 | | 8169 | Ш | | 11/13 11 | Ш | П | H | \$7.427 | \$1840 | П | Ц | Ш | | \$1071 | \$ 1477 | | \$4.177 \$7.942 |
| Total | 799,81222 | \$39,823 | L | \$100,342 | \$442,150 | \$224,394 | \$10,312 | 549'925 | Ľ | | 5233.933 \$ | 53 | \$25,529 \$192,738 | 241,195 | ü | \$49,128 | 524,401 | 5149,312 | 5510,762 | \$250,183 | \$11,480 | ľ | Ш | \$431,384 S | | | 528,232 528 | |
| Percent | 12.4% | 8.4% | \$ 2% | 74 0% | 1,00.0% | 47.4% | 8.4% | 8.1% | 740 05 | %-0 001 | 47.4% | 11.4% | L | | 46 47.4% | | | | 14.0 001 | 47.4% | 11.4% | 5.2% | 39.05 | 100 074 | 47.4% | 8 1% | | 74 876 |

Table 16 Cedar Hills - Water Rate Study

| | - | | 17 E 2013 | | H | | 1 | F3 E 2814 | | F | | F. F. 201 | 918 | | - | | P.N.E. 24/16 | | | | | F1 E 2817 | | _ | | H | PARTORI | |
|----------------------------------|-------------|----------|-------------|-----------|-----------|----------------|----------|--------------|---------------|-----------------|---------------|--------------|--------------------|------------------|--------------|-------------|--------------|-----------|-----------|-----------|----------|------------|-----------|--------------|-----------|-------------|-----------------|--------------------|
| | Average | Prof | Billing A | Metern A | | Average | 174 | | H | Н | Average Pask | H | Ë | Ŀ | Average | L | Elihog A | Meters & | , | Average | H | Dishag & 3 | Meters & | H | Average | Prok Ilki | Billing & Nic | _ |
| 1101 | Detained | Dev | Collection. | Nerritors | Total | Per ten netred | Day C'e | | Nervien Ta | Total 1Nom | 4 | A Collection | - | rs Tetal | - | Nav. | Collections | Services | - Total | Nem and | 4 | 4 | Services | | + | ٦ | 1 | Services Total |
| CARM | \$23K H97 | 120645 | \$21.02 | \$1BLH2 | \$462.190 | \$226.296 | \$40.942 | \$24694 \$. | \$186.412 \$4 | 123 177.778 | 1711011 1111 | 101 | \$25,129 \$192,730 | 73G \$491 g95 | 95 \$241,922 | 24 543.128 | 125-401 | \$199,112 | \$110.762 | \$250.183 | SHAM | \$27,412 | \$30,111 | \$123.3H | \$258,702 | \$40.119 | \$28,232 S. | \$211117 |
| 1 Acht Service | \$99,280 | \$31,947 | 1139 | \$49.530 | \$182,086 | 250.977 | 341 118 | 1165 | \$40.878 | \$111.364 \$101 | 11KLU52 333 | \$ 11.203 | \$19.00 | 105 1815 516 | _ | \$19.122 | 1111 | \$49,793 | SIESON | \$19.776 | \$11.115 | \$331 | \$4V 777 | \$182,995 \$ | н | \$32.989.90 | \$3.29.48 \$49. | |
| Camital Cuelens | \$12.902 | \$10,949 | \$109 | \$16.499 | \$60,110 | \$41.930 | \$14.579 | \$146 | \$21,916 \$ | \$801430 84 | \$11.526 \$17 | \$ 17099 \$ | \$171 \$25.70 | AND \$945 502 | 02 \$68.642 | ** | 1228 | \$14.245 | \$125 894 | \$79,264 | \$36,365 | \$263 | 15 W.S. | \$141.176 | \$97,383 | \$12,284 | Ц | 248,111 |
| Lean Unerplains Nun Rate Revenue | \$92045 | SIN-KM | Shorts | \$75.833 | \$194333 | 193 318 | \$16.516 | \$10.184 | \$78,882 \$1 | 197,019 \$9 | \$90.216 \$10 | \$16,036 S9 | 19 84 143 | 1137613 11971313 | Ц | 5 SIG-482 | \$10.00 | \$76.170 | \$195 196 | \$89,717 | \$13,996 | \$9.792 | \$71.923 | \$115,437 | \$91,948 | \$16 192 | Ц | |
| Leas Extrament Non-Rate Revenue | \$21.095 | STILL | 520 | \$10,524 | \$ 18 660 | 177.128 | \$7,053 | 870 | \$ 109015 | 114.941 \$2 | \$21.411 | \$7.108 \$1. | \$10.111 \$10.60S | MIS \$40 122 | 22 \$21416 | 177.72 | 1 37II | \$11,682 | \$42.946 | \$21,596 | \$7,811 | \$78 | \$11,772 | \$41.277 \$ | 21,782.50 | \$7.892.40 | \$78.82 \$11 | 11,864.89 \$41.619 |
| Tutal | 572.10.0720 | 405.003 | \$34.212 | 716'6615 | \$471.723 | \$255,630 | \$64.410 | \$14.918 \$. | \$178,746 \$9 | See5,785 527. | 5273,856 548 | SIS SIS | \$15,073 \$183,323 | 190'11-55 1 626 | 1057625 179 | 11 \$74,777 | \$16,792 | 8195,498 | 195 (1855 | \$315,900 | 540,190 | \$10,026 | \$74,6802 | 243,542 | 139,94.12 | \$47,109 | \$ 11,771 \$ | 211,6442 444,1572 |

Table 17 Cedar IIMs - Water Rate Study

Table 18
Cedar Hills - Water Rate Study
Existing Rates

| | : | |
|--------------------------|--------|----------------|
| Utility Fees | Rates | tes |
| Water (No PI Available) | | |
| Base Rate (Per ERU) | \$6.00 | per month |
| 1-10,000 | \$1.25 | per 1,000 gal. |
| 10,000-12,000 | \$2.00 | per 1,000 gal. |
| 12,000-18,000 | \$2.50 | per 1,000 gal. |
| 18,000+ | \$1.50 | per 1,000 gal. |
| Water (PI Available) | | |
| Base Rate (Per ERU) | \$6.00 | per month |
| 1-10,000 | \$1.25 | per 1,000 gal. |
| 10,000-12,000 | \$2.00 | per 1,000 gal. |
| 12,000-18,000 | \$3.00 | per 1,000 gal. |
| 18,000+ | \$4.00 | per 1,000 gal. |
| Water (PI Not Connected) | | |
| Base Rate (Per ERU) | \$6.00 | per month |
| 1-6,000 | \$2.00 | per 1,000 gal. |
| 6,000-12,000 | \$3.00 | per 1,000 gal. |
| 12,000-18,000 | \$4.00 | per 1,000 gal. |
| 18,000+ | \$5.00 | per 1,000 gal. |
| | | |

Table 19 Cedar Hills - Water Rate Study Calculated Rates

| Meter Size | [] | FYE 2013 | | FYE 2014 | | FYE 2015 | FYE 2016 | | FYE 2017 | F | YE 2018 |
|-----------------|-----|----------|----|----------|----|----------|--------------|----|----------|----|---------|
| Residential | П | | П | | П | | | | | | |
| 3/4 and smaller | \$ | 6.06 | \$ | 6.41 | \$ | 6.80 | \$ 7.21 | \$ | 7.68 | \$ | 8.10 |
| 1 | \$ | 7.57 | \$ | 8.01 | \$ | 8.51 | \$ 9.02 | \$ | 9.60 | \$ | 10.14 |
| 1 1/2 | \$ | 9.59 | \$ | 10.15 | \$ | 10.79 | \$ 11.43 | \$ | 12.17 | \$ | 12.86 |
| 2 | \$ | 15.15 | \$ | 16.04 | \$ | 17.06 | \$ 18.07 | \$ | 19.23 | \$ | 20.32 |
| 3 | \$ | 56.05 | \$ | 59.38 | \$ | 63.24 | \$ 66.92 | \$ | 71.22 | \$ | 75,31 |
| 4 | \$ | 71.21 | \$ | 75.43 | \$ | 80.35 | \$ 85.01 | \$ | 90.47 | \$ | 95.68 |
| 6 | \$ | 106.56 | \$ | 112.88 | \$ | 120.26 | \$ 127.23 | \$ | 135.40 | \$ | 143.20 |
| 8 | \$ | 146.96 | \$ | 155.68 | \$ | 165.88 | \$ 175.48 | \$ | 186.74 | \$ | 197.51 |
| 10 | \$ | 202.51 | \$ | 214.53 | \$ | 228.60 | \$ 241.82 | \$ | 257.34 | \$ | 272.19 |
| Commercial | | | | | | | | Г | | | |
| 3/4 and smaller | \$ | 6.06 | \$ | 6.41 | \$ | 6.80 | \$ 7.21 | \$ | 7.68 | \$ | 8.10 |
| 1 | \$ | 7.57 | \$ | 8.01 | \$ | 8.51 | \$ 9.02 | \$ | 9.60 | \$ | 10.14 |
| 1 1/2 | \$ | 9.59 | \$ | 10.15 | \$ | 10.79 | \$ 11.43 | \$ | 12.17 | \$ | 12.86 |
| 2 | \$ | 15.15 | \$ | 16.04 | \$ | 17.06 | \$ 18.07 | \$ | 19.23 | \$ | 20,32 |
| 3 | \$ | 56.05 | \$ | 59.38 | \$ | 63.24 | \$ 66.92 | \$ | 71.22 | \$ | 75,31 |
| 4 | \$ | 71.21 | \$ | 75.43 | \$ | 80.35 | \$ 85.01 | \$ | 90.47 | \$ | 95.68 |
| 6 | \$ | 106.56 | \$ | 112.88 | \$ | 120.26 | \$ 127.23 | \$ | 135.40 | \$ | 143.20 |
| 8 | \$ | 146.96 | \$ | 155.68 | \$ | 165.88 | \$ 175.48 | \$ | 186.74 | \$ | 197.51 |
| 10 | \$ | 202.51 | \$ | 214.53 | \$ | 228.60 | \$ 241.82 | \$ | 257.34 | \$ | 272.19 |
| Institutional | | | П | | П | | | Г | | | |
| 3/4 and smaller | \$ | 6,06 | \$ | 6.41 | \$ | 6.80 | \$ 7.21 | \$ | 7.68 | \$ | 8.10 |
| 1 | \$ | 7.57 | \$ | 8.01 | \$ | 8.51 | \$ 9.02 | \$ | 9.60 | \$ | 10.14 |
| 1 1/2 | \$ | 9.59 | \$ | 10.15 | \$ | 10.79 | \$ 11.43 | \$ | 12.17 | \$ | 12.86 |
| 2 | \$ | 15.15 | \$ | 16.04 | \$ | 17.06 | \$ 18.07 | \$ | 19.23 | \$ | 20.32 |
| 3 | \$ | 56.05 | \$ | 59.38 | \$ | 63.24 | \$ 66.92 | \$ | 71.22 | \$ | 75.31 |
| 4 | \$ | 71.21 | \$ | 75.43 | \$ | 80.35 | \$ 85.01 | \$ | 90.47 | \$ | 95.68 |
| 6 | \$ | 106.56 | \$ | 112.88 | \$ | 120.26 | \$ 127.23 | \$ | 135,40 | \$ | 143.20 |
| 8 | \$ | 146.96 | \$ | 155.68 | \$ | 165.88 | \$ 175.48 | \$ | 186.74 | \$ | 197.51 |
| 10 | \$ | 202.51 | \$ | 214.53 | \$ | 228.60 | \$ 241.82 | \$ | 257.34 | \$ | 272.19 |

Flat and Seasonal Volume Rates (\$/kgal)

| | 1 179.7 | C 2012 | 1 273 | TE 2014 | F | VE 2015 | | T 2016 | | VE 2017 | rv | T 3010 |
|------------------|---------|--------|-------|---------|----|---------|----|--------|----|---------|----|--------|
| | FY. | E 2013 | FY | E 2014 | ľ | YE 2015 | FY | E 2016 | F | YE 2017 | FY | E 2018 |
| Flat Volume Rate | | | | | | | | | | | | |
| Residential | \$ | 1.64 | \$ | 1.75 | \$ | 1.86 | \$ | 1.99 | \$ | 2.12 | \$ | 2.26 |
| Commercial | \$ | 1.64 | \$ | 1.75 | \$ | 1.86 | \$ | 1.99 | \$ | 2.12 | \$ | 2.26 |
| Institutional | \$ | 1.64 | \$ | 1.75 | \$ | 1.86 | \$ | 1.99 | \$ | 2.12 | \$ | 2,26 |
| Winter Rate | | | | | | | | | | | | |
| Residential | \$ | 1.31 | \$ | 1.40 | \$ | 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Commercial | \$ | 1.31 | S | 1.40 | \$ | 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Institutional | \$ | 1.31 | \$ | 1.40 | \$ | 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Summer Rate | | | | | | | | | | | | |
| Residential | \$ | 1.94 | \$ | 2.08 | \$ | 2.21 | \$ | 2.36 | \$ | 2.51 | \$ | 2.69 |
| Commercial | \$ | 1.94 | \$ | 2.08 | \$ | 2.21 | \$ | 2.36 | \$ | 2.51 | \$ | 2.69 |
| Institutional | \$ | 1.94 | \$ | 2.08 | \$ | 2.21 | \$ | 2.36 | \$ | 2.51 | \$ | 2,69 |

Block Volume Rates (S/kgal)

| | FY | E 2013 | F | YE 2014 | FYE 2015 | FY | E 2016 | F | YE 2017 | FY | E 2018 |
|---------------|----|--------|----|---------|------------|----|--------|----|---------|----|--------|
| Block 1 Rate | | | | | | | | | | | |
| Residential | \$ | 1.31 | \$ | 1.40 | \$ 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Commercial | \$ | 1.31 | \$ | 1.40 | \$ 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Institutional | \$ | 1,31 | \$ | 1.40 | \$ 1.49 | \$ | 1.59 | \$ | 1.69 | \$ | 1.80 |
| Block 2 Rate | | | | | | | | | | | |
| Residential | \$ | 2.15 | \$ | 2.31 | \$ 2.45 | \$ | 2.63 | \$ | 2.79 | \$ | 2.99 |
| Commercial | \$ | 2.15 | S | 2.31 | \$ 2.45 | \$ | 2.63 | \$ | 2.79 | \$ | 2.99 |
| Institutional | \$ | 2.15 | \$ | 2.31 | \$ 2.45 | \$ | 2.63 | \$ | 2.79 | \$ | 2.99 |
| Block 3 Rate | | | | | | | | | | | |
| Residential | \$ | 3.18 | \$ | 3.41 | \$ 3,62 | \$ | 3.89 | \$ | 4.13 | \$ | 4.43 |
| Commercial | \$ | 3.18 | \$ | 3.41 | \$ 3.62 | \$ | 3.89 | \$ | 4.13 | \$ | 4.43 |
| Institutional | \$ | 3.18 | \$ | 3.41 | \$ 3.62 | \$ | 3.89 | \$ | 4.13 | \$ | 4.43 |
| Block 4 Rate | | | | | | | | | | | |
| Residential | \$ | 4.21 | \$ | 4.51 | \$ 4.79 | \$ | 5.15 | \$ | 5.48 | \$ | 5.88 |
| Commercial | \$ | 4.21 | \$ | 4.51 | \$ 4.79 | \$ | 5.15 | \$ | 5.48 | \$ | 5.88 |
| Institutional | \$ | 4.21 | \$ | 4.51 | \$ 4.79 | \$ | 5,15 | \$ | 5.48 | \$ | 5,88 |

Water Rate Study Cedar Hills City

Table Rates 20 Cedar Hills - Water Rate Study Recommended Rates (PI Connected)

| Meter Size | FYE 2013 | 113 | FYE 2014 | FYE | FYE 2015 | FYE 2016 | | FYE 2017 | FYE 2018 | 00 |
|-----------------|----------|--------|-----------|-----|----------|-----------|---------------|----------|-----------------|-----|
| 3/4 and smaller | 89 | 90.9 | \$ 6.41 | €9 | 08.9 | \$ 7.21 | \$ | 7.68 | 8 8 | 10 |
| | ss | 7.57 | \$ 8.01 | 8 | 8.51 | \$ | \$ | 09.6 | \$ 10 | .14 |
| 1 1/2 | 85 | 9.59 | \$ 10.15 | \$ | 10.79 | \$ 11.43 | \$ | 12.17 | \$ 12 | 98. |
| 2 | S | 15.15 | \$ 16.04 | 69 | 17.06 | 89 | \$ 2 | 19.23 | \$ | .32 |
| 3 | S | 56.05 | \$ 59.38 | 69 | 63.24 | \$ | \$ | 71.22 | \$ | .31 |
| 4 | 89 | 71.21 | \$ 75.43 | 69 | 80.35 | \$ 85.01 | 8 | 90.47 | \$ | 89. |
| 9 | \$ | 96.56 | \$ 112.88 | €9 | 120.26 | \$ 127.2 | \$ | 135.40 | \$ | .20 |
| ∞ | \$ | 46.96 | \$ 155.68 | €9 | 165.88 | \$ 175.48 | \$ | 186.74 | \$ 197.51 | .51 |
| 10 | \$ 20 | 202.51 | \$ 214.53 | 69 | 228.60 | \$ 241.82 | \$ | 257.34 | \$ 272 | .19 |

Block Volume Rates (\$/kgal)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$3.18 | \$3.41 | \$3.62 | \$3.89 | \$4.13 | \$4.43 |
| Block 4 Rate | \$4.21 | \$4.51 | \$4.79 | \$5.15 | \$5.48 | \$5.88 |

Block Division Points by Meter Size

| | | Upper Block | Upper Block Limits (kgal) | |
|------------------|---------|-------------|---------------------------|---------|
| Meter Size | Block 1 | Block 2 | Block 3 | Block 4 |
| 3/4" and smaller | 8 | 12 | 18 | + |
| = | 10 | 15 | 23 | + |
| 1 1/2" | 13 | 20 | 29 | + |
| 2" | 21 | 32 | 47 | + |
| 3" | 80 | 120 | 180 | + |
| 4" | 102 | 153 | 229 | + |
| "9 | 153 | 229 | 344 | + |
| 8 | 211 | 316 | 475 | + |
| 10 | 291 | 436 | 655 | + |
| | | | | |

Table 21 Cedar Hills - Water Rate Study Recommended Rates (PI Not Available)

| Meter Size | FYE 2013 | FY | FYE 2014 | FYE 2015 | FYE 2016 | 9 | FYE 2017 | FYE 2018 |
|-----------------|-----------|------|----------|-----------|----------|-----------|----------|---------------|
| 3/4 and smaller | 90.9 | \$ 8 | 6.41 | 8.9 | €9 | 7.21 | 7.68 | €9 |
| 1 | 7.57 | \$ 2 | 8.01 | \$ 8.51 | \$ | 9.02 | 09.6 | 69 |
| 1 1/2 | \$ 9.59 | \$ 6 | 10.15 | \$ 10.79 | \$ | 1.43 \$ | 12.17 | \$ 12. |
| 2 | \$ 15.15 | \$ 2 | 16.04 | \$ | \$ | \$ 20. | 19.23 | \$ 20. |
| 3 | \$ 56.05 | \$ 2 | 59.38 | \$ 63.24 | \$ | 66.92 | 71.22 | \$ 75. |
| 4 | \$ 71.21 | \$ 1 | 75.43 | \$ | \$ | .01 | 90.47 | \$ |
| 9 | \$ 106.56 | \$ | 112.88 | \$ 1 | \$ | .23 \$ | 135.40 | 89 |
| 8 | \$ 146.96 | \$ | 155.68 | \$ 165.88 | \$ | 175.48 \$ | 186.74 | \$ 197.51 |
| 10 | \$ 202.51 | \$ | 214.53 | \$ 228.60 | \$ | 241.82 | 257.34 | \$ |

Block Volume Rates (\$/kgal)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|----------|
| Block 1 Rate | \$1.31 | \$1.40 | \$1.49 | \$1.59 | \$1.69 | \$1.80 |
| Block 2 Rate | \$2.15 | \$2.31 | \$2.45 | \$2.63 | \$2.79 | \$2.99 |
| Block 3 Rate | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 | \$2.50 |
| Block 4 Rate | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 | \$1.50 |

Block Division Points by Meter Size

| | | Upper Block | Upper Block Limits (kgal) | |
|------------------|---------|-------------|---------------------------|---------|
| Meter Size | Block 1 | Block 2 | Block 3 | Block 4 |
| 3/4" and smaller | 8 | 12 | 18 | + |
| 1" | 10 | 15 | 23 | + |
| 1 1/2" | 13 | 20 | 29 | + |
| 2" | 21 | 32 | 47 | + |
| 3" | 80 | 120 | 180 | + |
| 4" | 102 | 153 | 229 | + |
| 9 | 153 | 229 | 344 | + |
| 8 | 211 | 316 | 475 | + |
| 10" | 291 | 436 | 655 | + |
| | | | | |

Table 22
Cedar Hills - Water Rate Study
Recommended Rates (PI Not Connected)

| Meter Size | FYE 2013 | E | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------|-----------|----------|----------|-----------|-----------|--------------|---------------|
| 3/4 and smaller | 9 | 8 90.9 | 6.41 | S | \$ 7.21 | \$ 7.68 | 59 |
| | 2 | 7.57 | 8.01 | \$ 8.51 | \$ 9.02 | 09.6 | \$ |
| 1 1/2 | 6 \$ | 9.59 | 10.15 | \$ 10.79 | \$ 11.43 | \$ | 59 |
| 2 | \$ 15 | 15.15 | 16.04 | \$ 17.06 | \$ | \$ | \$ |
| 3 | \$ 26 | \$6.05 | 59.38 | 5 | \$ 66.92 | \$ | \$ 75.31 |
| 4 | \$ 71 | 71.21 | 75.43 | \$ 80.35 | \$ 85.01 | ∽ | S |
| 9 | \$ 106 | 06.56 | 112.88 | \$ 1 | \$ | \$ 135.40 | \$ |
| 8 | \$ 146 | 46.96 | 155.68 | \$ 165.88 | \$ 175.48 | \$ 186.74 | 3.761 \$ |
| 10 | \$ 202.51 | .51 | 214.53 | \$ 228.60 | \$ 241.82 | \$ 257.34 | \$ |

Block Volume Rates (\$/kgal)

| | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|--------------|----------|----------|----------|----------|----------|-----------------|
| Block 1 Rate | \$2.10 | \$2.24 | \$2.38 | \$2.54 | \$2.70 | \$2.88 |
| Block 2 Rate | \$3.23 | \$3.47 | \$3.68 | \$3.95 | \$4.19 | \$4.49 |
| Block 3 Rate | \$4.24 | \$4.55 | \$4.83 | \$5.19 | \$5.51 | \$5.91 |
| Block 4 Rate | \$5.26 | \$5.64 | \$5.99 | \$6.44 | \$6.85 | \$7.35 |

Block Division Points by Meter Size

| | | Upper Block | Limits (kgal) | |
|------------------|---------|-------------|-----------------|---------|
| Meter Size | Block 1 | Block 2 | Block 2 Block 3 | Block 4 |
| 3/4" and smaller | 8 | 12 | 18 | + |
| = | 10 | 15 | 23 | + |
| 11/2" | 13 | 20 | 56 | + |
| 2" | 21 | 32 | 47 | + |
| 3" | 80 | 120 | 180 | + |
| 4" | 102 | 153 | 229 | + |
| 9 | 153 | 229 | 344 | + |
| 8 | 211 | 316 | 475 | + |
| 10" | 291 | 436 | 655 | + |
| | | | | |

APPENDIX B

DETAILED PRESSURIZED IRRIGATION RATE MODEL TABLES

10-Year Budget Plan - Pressurized Irrigation

| | | Historic Year | | | | Projected Year | d Year | | |
|---|-----------|---------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|
| | FYE 2010 | FYE 2011 | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Total ERUs | 2,164 | 2,307 | 2,401 | 2,419 | 2,437 | 2,456 | 2,477 | 2,497 | 2,517 |
| % Growth from Previous Year | - | 661% | 4 07% | 0.75% | 0.74% | 0.78% | 0.86% | %180 | 0 80% |
| | | | | : | | | | | |
| Expenditures | | | | | | | | | |
| O&M | \$374,509 | \$384,342 | \$409,060 | \$422,886 | \$437,180 | \$451,935 | \$467,368 | \$483,329 | \$499,786 |
| Debt Service | \$521,430 | \$469,135 | \$486,938 | \$483,579 | \$480,032 | \$485,835 | \$480,938 | \$485,842 | \$480,046 |
| Total Capital Expenditures | \$33,230 | 119,118 | \$15,000 | \$15,114 | \$15,229 | \$15,343 | \$15,470 | \$15,599 | \$15,725 |
| Total Expenditures | 8929,169 | 5865,087 | 8910,998 | \$921.579 | 8932,440 | 5953,112 | 5963,777 | 8984,769 | \$995,557 |
| | | | | | | | | | |
| Capital Expenditures from Bond Proceeds | \$0 | 80 | \$0 | 80 | 0\$ | 0\$ | \$0 | \$0 | \$0 |
| Capital Expenditures from Reserves | \$33,230 | \$11,611 | \$15,000 | \$15,114 | \$15,229 | \$15,343 | \$15,470 | \$15,599 | \$15,725 |
| | | | | | | | | | |
| Income | | | | : | | | | | |
| Other Non-Rate | \$143,995 | \$145,481 | \$147,500 | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 | \$184,385 |
| Sales - Existing Rates | \$848,287 | \$904,423 | \$935,000 | \$942,010 | \$949,019 | \$956,418 | \$964,596 | \$972,384 | \$980,173 |
| Projected Income - Existing Rates | \$992,282 | \$1,049,904 | \$1,082,500 | \$1,095,056 | \$1,107,820 | \$1,121,174 | \$1,135,662 | \$1,150,002 | \$1.164,558 |
| | | | | | | | | | |
| System Investment Goal | \$178,933 | \$196,125 | \$210,000 | \$217,874 | \$226,032 | \$234,575 | \$243,618 | \$252,894 | \$262,506 |
| Recommended Long-term Level of Funding | \$553,442 | \$580,467 | \$619,060 | \$640,761 | \$663,212 | \$686,510 | \$710,986 | \$736,222 | \$762,292 |
| | | | | | | | | | |
| Recommended Rate Increases | | | | %00 | %0 0 | %0 0 | %00 | %0 0 | 0 0% |
| Sales Revenue With Increase | \$848,287 | \$904,423 | \$935,000 | \$942,010 | \$949,019 | \$956,418 | \$964,596 | \$972,384 | \$980,173 |
| Projected Income - Recommended Rates | \$992,282 | +06'6+0'1S | \$1,082,500 | S1,095,056 | \$1,107,820 | S1,121,174 | \$1,135,662 | \$1,150,002 | \$1,164,558 |
| | | • | • | | | | | | |

Table 1
Cedar Hills - Pressurized Irrigation Rate Study
Historic Irrigated Acreage
(acres)

| | Acres/ERU. | (per month) | 0.025 | 0.074 | 0.114 | 0.026 |
|----------|------------|----------------|-------------|------------|---------------|-------|
| | Planning | Acres/ERU. | 0.3 | 6.0 | 1.4 | 0.3 |
| | Acres per | ERU | 0.30 | 68.0 | 1.37 | 0.32 |
| FYE 2012 | | ERUS | 2,353 | 61 | 29 | 2,401 |
| | Lot | Size | 707 | 17 | 39 | 763 |
| | Acres per | ERU | 0.3 | 1.4 | 2.1 | 0.3 |
| FYE 2011 | | ERUS | 2,277 | 12 | 81 | 2,307 |
| | Lot | Size | 683 | 11 | 38 | 738 |
| | Acres per | ERU | 0.3 | 1.4 | 2.1 | 0.3 |
| FYE 2010 | | ERUS | 2,136 | = | 11 | 2,164 |
| | Lot | Size | 683 | 15 | 36 | 734 |
| | | Customer Class | Residential | Commercial | Institutional | Total |

Table 2
Cedar Hills - Pressurized Irrigation Rate Study
Projected ERUs

| | | | | Number | ber | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|
| Customer Class | | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| | % Growth | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | | 2,371 | 2,389 | 2,407 | 2,427 | 2,447 | 2,467 |
| Commercial | | 61 | 61 | 20 | 20 | 20 | 20 |
| Institutional | | 50 | 29 | 29 | 30 | 30 | 30 |
| Total | | 2,419 | 2,437 | 2,456 | 2,477 | 2,497 | 2,517 |

Table 3
Cedar Hills - Pressurized Irrigation Rate Study
Projected Irrigated Acreage

| | | | | Amount (acres) | (acres) | | |
|----------------|------------|----------|----------|----------------|----------|----------|----------|
| Customer Class | Acres/ERU. | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 0.3 | 712 | 718 | 723 | 729 | 735 | 741 |
| Commercial | 6.0 | 17 | 17 | 81 | 18 | 81 | 81 |
| Institutional | 1.4 | 40 | 40 | 40 | 41 | 41 | 41 |
| Total | | 692 | 774 | 781 | 788 | 794 | 800 |

Table 4
Cedar Hills - Pressurized Irrigation Rate Study
Connection Fee Revenue

| | Impact | Projected |
|--------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Size of Meter | Fee (S/ERU) | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Per ERU | 20 00 | | 20 | \$0 | \$0 | (15 | 0.\$ | 0\$ |
| Total Impact Fee Revenue | | SO | 80 | SU | SI | OS | 08 | 98 |

Table 5 Cedar Hills - Pressurized Irrigation Rate Study Non-Rate Revenue (Including Connection Fees)

| Assumed Inflation Rate = | 3.0% | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | L | Projected | Projected | Projected | Projected | Projected | Projected |
| tem | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FVE 2018 |
| perations | | | | | | | |
| CUP Fccs | \$147,500 | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 | \$184,385 |
| Total Operations Non-Rate Revenue | \$147,500 | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 | \$184,385 |
| Spansion and Replacement Fotsk Expansion Non-Rate Revenue | 95 | 0\$ | 0% | 0.5 | 05 | S | 0.5 |
| Fotal Non-Rate Revenue | \$147,500 | 8153,046 | \$158,801 | S164,756 | \$171,066 | 8177,618 | \$184,385 |

Table 6
Cedar Hills - Pressurized Irrigation Rate Study
Revenue Requirements
Cash Basis

| | Propertion | | | | | L L L CONCLUENT | |
|----------|-------------|--|---------------------|---|--|---|--|
| % Growth | FVE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| | | | | | | | |
| | \$86.560 | 98F, CM2 | \$92,510 | \$95,633 | 868,86\$ | \$102,276 | \$105,758 |
| | \$1,340 | \$1,385 | \$1.432 | 081.180 | 11.531 | \$1,583 | \$1,637 |
| | 090'15 | \$4,197 | \$4,339 | \$4,486 | \$4,639 | \$4,797 | \$4,960 |
| | \$49,920 | 20915\$ | \$53,352 | \$55,152 | \$57,036 | \$58,983 | \$60,992 |
| | 008\$ | \$827 | \$885 | SKRI | \$914 | \$945 | 770% |
| | \$1,400 | 21'412 | 961'18 | \$1.547 | \$1,600 | 181.654 | \$1,711 |
| | \$1,200 | \$1,241 | \$1.282 | \$1,326 | \$1,371 | 81118 | \$1,466 |
| | 0015 | rirs | \$427 | 2++5 | 2457 | £4H\$ | \$489 |
| | 008'1\$ | \$1,861 | †Z6'1 S | 686'18 | \$2,057 | \$2,127 | \$2,199 |
| | CHON. (NO.) | \$111.650 | \$115,424 | \$119,320 | \$123,395 | \$127,608 | \$131,954 |
| | \$600 | \$620 | 11:95 | \$663 | \$686 | (A)L\$ | \$733 |
| | SKIN | \$827 | \$855 | \$884 | +16\$ | \$945 | 2077 |
| | S-100 | P11*S | \$427 | \$442 | \$457 | \$473 | \$489 |
| | \$2,400 | \$2,481 | \$2,565 | \$2,652 | \$2,742 | \$2,836 | \$2,932 |
| | \$5,000 | \$5,169 | \$5,344 | \$5,524 | \$5,713 | \$5,908 | \$6,109 |
| | \$4,80H | \$4,962 | \$5,130 | \$5,303 | 181'5\$ | 129'5\$ | \$5,865 |
| | \$1,880 | \$1.944 | \$2,009 | \$2,077 | \$2,148 | \$2,221 | \$2,297 |
| | 0\$ | 20 | 0.5 | \$0 | 80 | 05 | 20 |
| | \$17,700 | \$18,298 | 218,917 | \$19,555 | \$20,223 | \$20.914 | \$21.626 |
| | \$120,000 | \$124,056 | \$128.249 | \$132,577 | \$137,105 | \$141.787 | \$146,615 |
| | 090'60tS | \$422,886 | S437,180 | \$451,935 | 896,7348 | 8483,329 | \$499,786 |
| | | | | | | | |
| | | 100 | 0.00 | 200 | | | |
| _ | \$414,525 | \$402,963 | \$401.213 | \$403,813 | \$401.013 | \$403,013 | \$399,613 |
| | \$82,413 | \$80,616 | \$78,819 | \$82,022 | \$79,925 | \$82,829 | \$80,433 |
| | 8£6,98t2 | S483,579 | \$480,032 | \$485,835 | \$480,938 | 5485,842 | S480,046 |
| | 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FVE 2017 | FYE 2018 |
| | \$15,000 | \$15,114 | \$15,229 | \$15,343 | \$15.470 | \$15,599 | \$15,725 |
| | \$171,503 | \$173,477 | \$175,380 | \$168,062 | \$171,885 | \$165,233 | \$169,001 |
| | \$186,503 | \$188,591 | \$190,608 | \$183,405 | 8187,356 | 5180,832 | \$184,726 |
| | | | | | | | |
| | S1,082,540 | \$1,095,056 | 81,1117,820 | 51,121,174 | \$1,135,662 | \$1,150,002 | \$1,164,558 |
| | | | | | | | |
| | \$147,500 | \$153,046 | \$158,801 | \$164,756 | \$171,066 | \$177,618 | \$184,385 |
| | 0\$ | \$0 | \$0 | \$0 | 80 | 20 | \$0 |
| | | | | | | | |
| | 8935,000 | 8942,010 | 8949,019 | 8956,418 | 965*1968 | \$972,384 | S980,173 |
| | % Growth | 15 15 15 15 15 15 15 15 15 15 15 15 15 1 | FYE 2012 FYE 2015 | \$800.560 \$1.340 | FURDACTOR FURD | FUDECTED FUDECTED | FYR 2017 SWA 560 FYR 2017 FYR 2017 |

Table 7
Cedar Hills - Pressurized Irrigation Rate Study
Cost Allocation Percentages to Service Characteristics

| Item | Volume | Customer | Total |
|---|--------|----------|-------|
| O&M | | | 1 |
| Salary & Wages (Full-Time) | 20% | %08 | 100% |
| Overtime | 20% | 80% | 100% |
| Salary & Wages (Part-Time) | 20% | %08 | 100% |
| Employee Benefits | 20% | %08 | 100% |
| Dues & Subscriptions | 20% | %08 | %00I |
| Education & Training | 20% | %08 | 100% |
| Computer Expenses | %0 | 100% | 100% |
| Office Equipment | %0 | 100% | 100% |
| Tools & Equipment | 20% | %08 | 100% |
| Utilities | 20% | %08 | 100% |
| Blue Stakes | 20% | 80% | 100% |
| Communications & Telephone | %0 | 100% | 100% |
| Engineering Services | 20% | %08 | 100% |
| Professional & Technical | 20% | %08 | 100% |
| Insurance | 20% | %08 | 100% |
| Credit Card Fees | %0 | 100% | 100% |
| Trustee Fees | 20% | %08 | 100% |
| Water Purchases - American Fork | 75% | 25% | 100% |
| Water Purchases - Pleasant Grove Irrigation | 75% | 25% | 100% |
| Supplementary Water | 75% | 25% | 100% |
| | | | |

Table 8
Cedar Hills - Pressurized Irrigation Rate Study
Fixed Assets Allocations to Service Characteristics

| | | | Percent | | Alle | Allocated Amount | |
|-------------|--------------|--------|----------|-------|-------------|-------------------------|--------------|
| Item | Assets | Volume | Customer | Total | Volume | Customer | Total |
| Main Lines | \$8,809,100 | 20% | 20% | 100% | \$4,404,550 | \$4,404,550 | \$8,809,100 |
| Water Stock | \$3,311,559 | 75% | 25% | 100% | \$2,483,669 | \$827,890 | \$3,311,559 |
| Total | \$12,120,659 | | | | \$6,888,219 | \$5,232,440 | \$12,120,659 |
| Percent | | | | | 26.8% | 43.2% | 100.0% |

Table 9
Cedar Hills - Pressurized Irrigation Rate Study
Allocation of O&M Costs to Service Characteristics

| | | FYE 2013 | | | FYE 2014 | | | FYE 2015 | | ! | FYE 2016 | | | FVE 2017 | | | FYE 2018 | |
|---|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Item | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total |
| O&M | | | | | | | | | | | | | | | | _ | | |
| Salary & Wages (Full-Time) | \$17.897 | \$71,589 | \$89,486 | \$18,502 | 874,008 | \$92,510 | \$19,127 | \$76,506 | \$95,633 | \$19,780 | 611,678 | 808.808 | \$20,455 | \$81,821 | \$102,276 | \$21,152 | \$84,607 | \$105,758 |
| Overtime | \$277 | \$1,108 | \$1,385 | \$286 | \$1.146 | \$1,432 | \$296 | \$1,184 | \$1,480 | 906\$ | \$1,225 | 165,12 | \$317 | \$1,267 | \$1,583 | \$327 | \$1,310 | \$1,637 |
| Salary & Wages (Part-Time) | \$839 | 83,358 | \$4,197 | \$868 | 121'ES | \$4,339 | \$897 | \$3,588 | \$4,486 | \$928 | \$3,711 | \$4,639 | \$959 | \$3,838 | \$4,797 | \$992 | \$3,968 | \$4,960 |
| Employee Benefits | \$10,321 | \$41.286 | \$51,607 | \$10,670 | \$42,681 | \$53,352 | \$11.030 | \$44,122 | \$55,152 | \$11,407 | \$45,629 | \$57,036 | \$11.797 | \$47,187 | \$58,983 | \$12,198 | \$48,793 | \$60,992 |
| Dues & Subscriptions | \$165 | \$662 | \$827 | 1/18 | \$684 | \$885 | \$177 | 2005 | \$884 | \$183 | \$731 | \$914 | \$189 | \$756 | \$945 | \$1195 | \$782 | 2777 |
| Education & Training | \$289 | \$1,158 | 21.447 | \$299 | \$1,197 | \$1,496 | \$309 | \$1.237 | \$1.547 | \$320 | \$1,280 | \$1,600 | \$331 | \$1,323 | \$1,654 | \$342 | \$1,368 | \$1,711 |
| Computer Expenses | 05 | \$1,241 | \$1,241 | 0\$ | \$1.282 | \$1,282 | \$0 | \$1,326 | \$1.326 | \$0 | \$1,371 | \$1,371 | 80 | \$1,418 | \$1,418 | \$0 | \$1,466 | \$1,466 |
| Office Equipment | 03 | 1115 | 2117 | 0\$ | \$427 | \$427 | \$0 | \$442 | \$442 | 80 | \$457 | \$457 | \$0 | \$473 | \$473 | \$0 | \$489 | \$489 |
| Tools & Equipment | \$372 | \$1.489 | \$1.861 | \$385 | \$1,539 | \$1,924 | 8398 | \$1,591 | 686'1\$ | 1115 | \$1,645 | \$2,057 | \$425 | 107,12 | \$2,127 | 0115 | \$1.759 | \$2,199 |
| Utilines | \$22,330 | \$89,320 | \$111,650 | \$23,085 | \$92,339 | \$115.424 | \$23,864 | \$95,456 | \$119,320 | \$24.679 | \$98,716 | \$123,395 | \$25.522 | \$102,087 | \$127,608 | \$26,391 | \$105,563 | \$131,954 |
| Blue Stakes | \$124 | 2496 | \$620 | \$12x | \$513 | \$641 | \$133 | \$530 | \$663 | \$137 | \$548 | \$686 | \$142 | \$567 | \$709 | \$147 | \$586 | \$733 |
| Communications & Telephone | i i S | \$827 | \$827 | 98 | \$835 | \$835 | 0\$ | 5884 | \$884 | 0\$ | \$914 | \$914 | 920 | \$945 | \$945 | 05 | 2977 | 2977 |
| Engineering Services | \$83 | \$331 | \$414 | \$85 | \$342 | \$427 | \$88 | \$354 | \$442 | 165 | \$366 | \$457 | \$95 | \$378 | \$473 | \$9K | \$391 | \$489 |
| Professional & Technical | \$496 | \$1,985 | \$2.481 | \$513 | \$2,052 | \$2,565 | \$530 | \$2,121 | \$2,652 | \$548 | \$2,194 | \$2,742 | \$567 | \$2,269 | \$2,836 | \$586 | \$2,346 | \$2,932 |
| Insurance | \$1,034 | \$4,135 | \$5,169 | \$1.069 | \$4,275 | \$5,344 | \$1,105 | \$4.419 | \$5,524 | \$1,143 | \$4.570 | \$5,713 | \$1.182 | \$4,726 | \$5,908 | \$1.222 | \$4,887 | \$6,109 |
| Credit Card Fees | 0\$ | \$4,962 | \$4.962 | Si) | \$5,130 | \$5,130 | 0\$ | \$5,303 | \$5,303 | 20 | \$5,484 | \$5.484 | 05 | \$5.671 | \$5,671 | 20 | \$5.865 | \$5.865 |
| Trustec Fees | \$389 | \$1,555 | \$1.944 | \$402 | \$1,607 | \$2,009 | \$415 | \$1,662 | \$2,077 | \$430 | \$1.718 | \$2,148 | \$111 | \$1.777 | \$2,221 | \$459 | \$1.838 | \$2,297 |
| Water Purchases - American Fork | 80 | 80 | 0\$ | 80 | SO | 08 | 08 | 20 | 20 | 0.5 | 05 | \$0 | SO | 80 | 80 | 80 | \$0 | 0\$ |
| Water Purchases - Pleasant Grove Irrigation | \$13,724 | \$4,575 | \$18.298 | \$14.188 | \$4,729 | \$18,917 | \$14,666 | \$4,889 | \$19,555 | \$15.167 | \$5.056 | \$20,223 | \$15,685 | \$5,22K | \$20.914 | \$16,219 | \$5,406 | \$21.626 |
| Supplementary Water | \$93,042 | \$31,014 | \$124.056 | \$96.187 | \$32,062 | \$128.249 | \$99.433 | \$33,144 | \$132.577 | \$102,829 | \$34,276 | \$137,105 | \$106,340 | \$35,447 | \$141.787 | \$109,961 | \$36.654 | \$146,615 |
| Total | S161,383 | \$261,503 | \$422,886 | \$166,838 | \$270,342 | \$437,180 | \$172,469 | \$279,466 | \$451,935 | \$178,359 | \$289,009 | S467,368 | 051,1812 | S29H,H79 | S483,329 | 5190,730 | 5389,4156 | 5499,786 |
| Percent | 38.2% | 61.8% | 100.0% | 38.2% | 61.8% | 100.0% | 38.2% | 61.8% | 100.0% | 38.2% | 61.8% | 100.0% | 38.2% | 61.8% | 100.0% | 38.2% | 61.8% | 100.0% |

Table 10
Cedar Hills - Pressurized Irrigation Rate Study
Revenue Requirements by Service Characteristics

| FYE 2017 FYE 2017 | Customer Total Volume Customer Total Volume Customer Total Volume Customer | \$122.886 \$166.878 \$270.342 \$477.180 \$172.469 \$279.466 \$451.935 \$178.359 \$289.879 \$467.368 \$467.368 | \$276,102 \$209,733 \$485,835 \$273,319 \$207,619 | F188,391 \$108,324 \$82,285 \$190,608 \$104,230 \$79,175 \$108,818 \$104,818 \$102,005 \$102,007 \$104,235 \$104,235 \$105,007 \$104, | \$101.881 \$164.756 \$65.283 \$105.783 \$171.066 \$67.783 \$109.834 | 08 08 08 08 08 08 08 08 08 08 | The botto and the control of the tree of the control of the contro |
|-------------------|--|---|---|---|---|-------------------------------|--|
| FYE 2016 | _ | L | _ | L | L | 05 05 | 367 1712 171 736 |
| _ | Total | \$451,935 | \$485,835 | \$183,405 | 2164,756 | 80 | 811 2983 |
| FYE 2015 | Customer | \$279,466 | \$209.733 | L | | 05 | 101 9913 |
| | Volume | \$172,469 | Ц | L | \$62,875 | 80 | 200 0013 |
| | | - | \$480,032 | L | _ | 80 | CO 10 010 |
| FYE 2014 | Н | H | | L | L | \$0 | 727 1713 |
| | Volume | \$166,838 | \$272,804 | \$108,324 | \$60,602 | SO | 272 2013 |
| | Total | \$422,886 | \$483,579 | \$188,591 | \$153,046 | 0.5 | C047 A11 |
| FYE 2013 | Customer | \$261,503 | \$208,759 | \$81.414 | \$94,640 | \$0 | S 167 M 3C |
| | olume / | \$161,383 | \$274,820 | \$107.177 | \$58,406 | \$0 | 6 10 1 0 7 1 |

Table 11
Cedar Hills - Pressurized Irrigation Rate Study
Cost Allocations to Customer Classes

| | | FYE 2013 | | | FYE 2014 | | | FYE 2015 | - | | FYE 2016 | | | FYE 2017 | | | FYE 2018 | |
|---------------|----------------|--------------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|
| | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Tetal |
| Residential | \$449,288 | \$447,966.69 | \$897,255 | \$451,752 | \$452,563 | \$904,315 | \$453,523 | \$457,185 | \$910,708 | \$456,069 | \$462,204 | \$918,273 | \$458,819 | \$467.296 | \$926,115 | \$461,519,62 | \$472,441 | \$933,960 |
| Commercial | \$10,688 | \$3,590 | \$14.278 | \$10,666 | \$3,599 | \$14,265 | \$11.187 | \$3,799 | \$14,986 | \$11.157 | \$3,809 | \$14,966 | \$11.133 | \$3,819 | \$14,952 | \$11,107,33 | \$3.830 | \$14,937 |
| Institutional | \$24.998 | 621'5\$ | \$30,477 | \$24,945 | \$5,494 | \$30,439 | \$24,856 | \$5.508 | \$30.364 | \$25,644 | \$5,713 | \$31.358 | \$25.588 | \$5,729 | \$31,317 | \$25,529.99 | \$5,745 | \$31,275 |
| Total | \$484,974 | \$457,036 | 5942,010 | 5487,363 | 2461,656 | \$949,819 | 2489,566 | 5466,493 | 850,9568 | S492,878 | 5471,726 | 2964,596 | S495,540 | S+16,845 | 5972,384 | \$498,157 | \$482,016 | 5980,173 |
| | | | H | | | | | | | | | | | | | | | |
| Allower Davis | 1 to A command | Account | | ley Accessed | Account | | fer Acresses | Account | | IN Acman | Account | | hr Acmano | Account | | In Acresor | Account | |

Table 12
Cedar Hills - Pressurized Irrigation Rate Study
Existing Rates and Projected Revenue

| Base Rate | Existing | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Residential | \$15.95 | \$453,809 | \$457,255 | \$460,700 | \$464,528 | \$468,356 | \$472,184 |
| Commercial | \$15.95 | \$3,637 | \$3,637 | \$3,828 | \$3,828 | \$3,828 | \$3,828 |
| Institutional | \$15.95 | \$5,551 | \$5,551 | \$5,551 | \$5,742 | \$5,742 | \$5,742 |
| | | | | | ! | | |
| Volume Rate (per acre lot size) | Existing | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | \$49.12 | \$419,774 | \$422,960 | \$426,147 | \$429,688 | \$433,229 | \$436,770 |
| Commercial | \$49.12 | \$9.986 | 986.6\$ | \$10.512 | \$10,512 | \$10,512 | \$10,512 |

| | į | | | | | |
|--------------------------|------------|------------|------------|------------|------------|------------|
| Revenue - Existing Rates | \$916,112 | \$922,744 | \$930,093 | \$938,458 | \$945,827 | \$953,196 |
| Revenue Required | \$942,010 | \$949,019 | \$956,418 | \$964,596 | \$972,384 | \$980,173 |
| Surplus/(Shortfall) | (\$25,898) | (\$26,275) | (\$26,325) | (\$26,138) | (\$26,557) | (\$26,977) |

\$24,161

\$24,161

\$24,161

\$23,356

\$23,356

\$49.12

Institutional

Table 13
Cedar Hills - Pressurized Irrigation Rate Study
Calculated Rates

| Monthly Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|----------------------------------|----------|----------|----------|----------|----------|----------|
| Residential | \$15.74 | \$15.79 | \$15.83 | \$15.87 | \$15.91 | \$15.96 |
| Commercial | \$15.74 | \$15.79 | \$15.83 | | \$15.91 | \$15.96 |
| Institutional | \$15.74 | \$15.79 | \$15.83 | \$15.87 | \$15.91 | \$15.96 |
| | | | | | | |
| Volume Rate (per month per acre) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | \$52.57 | \$52.46 | \$52.28 | \$52.14 | \$52.02 | \$51.90 |
| Commercial | \$52.57 | \$52.46 | \$52.28 | \$52.14 | \$52.02 | \$51.90 |
| Institutional | \$52.57 | \$52.46 | \$52.28 | \$52.14 | \$52.02 | \$51.90 |

Table 14
Cedar Hills - Pressurized Irrigation Rate Study
Recommended Rates

| Utility Fees (per month) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------------------|----------|----------|----------|----------|----------|----------|
| Base Rate | | | | | | |
| 1-inch connection | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 | \$15.95 |
| 1 1/2-inch connection | \$31.90 | | \$31.90 | \$31.90 | \$31.90 | \$31.90 |
| 2-inch connection | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 | \$51.04 |
| 3-inch connection | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 | \$95.70 |
| 4-inch connection | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 | \$159.50 |
| | | | | | | |
| Lot size-1/4 acre or less | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 | \$12.98 |
| 1/4 acre to 1/3 acre | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 | \$17.30 |
| 1/3 acre to 1/2 acre | \$25.95 | | \$25.95 | \$25.95 | \$25.95 | \$25.95 |
| Larger Lots (\$/acre) | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 | \$51.90 |
| | | | | | | |

APPENDIX C DETAILED SEWER RATE MODEL TABLES

10-Year Budget Plan - Sewer

| | | Historic Year | | | | Projected Year | d Year | | |
|---|-----------|---------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|
| | FYE 2010 | FYE 2011 | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Total ERUs | 2,387 | 2,387 | 2,387 | 2,405 | 2,423 | 2,441 | 2,462 | 2,482 | 2,502 |
| % Growth from Previous Year | | %00'0 | %00'0 | 0.77% | 0.75% | 0.74% | 0.86% | 0.81% | 0.81% |
| | | | | | | | | | |
| Expenditures | | | | | | | | | |
| O&M | \$644,941 | \$777,011 | \$824,400 | \$861,499 | \$900,313 | \$940,911 | \$983,501 | \$1,028,069 | \$1,074,678 |
| Debt Service | \$30,833 | \$30,353 | \$30,853 | \$30,333 | \$30,793 | \$31,213 | \$30,613 | \$30,993 | \$30,333 |
| Total Capital Expenditures | \$0 | \$764 | \$382,500 | \$10,076 | \$410,153 | \$10,229 | \$260,314 | \$10,399 | \$410,483 |
| Total Expenditures | \$675,774 | \$808,128 | \$1,237,753 | 2901,907 | \$1,341,258 | \$982,352 | \$1,274,427 | 191'690'18 | 51,515,494 |
| | | | | | | | | | |
| Capital Expenditures from Bond Proceeds | 0\$ | 0\$ | 80 | 0\$ | 0\$ | \$0 | 0\$ | 0\$ | \$0 |
| Capital Expenditures from Reserves | 0\$ | \$764 | \$382,500 | \$10,076 | \$410,153 | \$10,229 | \$260,314 | \$10,399 | \$410,483 |
| | | | | ١ | | | : | • | |
| Income | | | | | | | | | |
| Connection Fees | \$4,979 | \$920 | \$3,850 | \$4,899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| Other Non-Rate | \$1,050 | \$825 | \$1,050 | \$1,089 | \$1,130 | \$1,173 | \$1,218 | \$1,264 | \$1,313 |
| Sales - Existing Rates | \$687,287 | \$872,247 | \$880,000 | \$886,736 | \$893,373 | \$900,010 | \$907,752 | \$915,127 | \$922,501 |
| Projected Income - Existing Rates | \$693,316 | \$873,992 | \$884,900 | \$892,725 | 5899,330 | 8906,009 | 109'+168 | \$921,754 | \$929,176 |
| | | | | | | | | | |
| System Investment Goal | \$346,404 | \$356,796 | \$367,500 | \$381,338 | \$395,632 | \$410,440 | \$426,285 | \$442,536 | \$459,378 |
| Recommended Long-term Level of Funding | \$991,345 | \$1,133,807 | \$1,191,900 | \$1,242,837 | \$1,295,945 | \$1,351,351 | \$1,409,786 | \$1,470,605 | \$1,534,057 |
| | | | | | | | | | |
| Recommended Rate Increases | | | | 5.5% | 5.5% | 5.5% | 5.5% | 5.5% | 5.5% |
| Sales Revenue With Increase | \$687,287 | \$872,247 | \$880,000 | \$935,507 | \$994,346 | \$1,056,829 | \$1,124,546 | \$1,196,034 | \$1,271,983 |
| Projected Income - Recommended Rates | 8693,316 | \$873,992 | 006"+885 | 56411465 | \$1,000,303 | \$1,062,828 | \$1,131,395 | \$1,202,661 | \$1,278,659 |
| | | | | | | | | | |

Table 1
Cedar Hills - Sewer Rate Study
Historic Indoor Water Use
(kgal)

| | Use/ERU (kgal/month) | 5.7 | | 30.0 | 0.9 |
|----------|----------------------|-------------|------------|---------------|---------|
| | Planning Use/ERU | 68.5 | 366.3 | 359.9 | 72.5 |
| | Use per ERUs | 68.5 | 366.3 | 359.9 | 72.5 |
| FYE 2012 | ERUS | 2,354 | 18 | 15 | 2,387 |
| | Use | 161,206 | 6,594 | 5,301 | 173,101 |
| | Use per ERUs | 0.89 | 309.4 | 289.0 | 71.2 |
| FYE 2011 | ERUS | 2,354 | 18 | 15 | 2,387 |
| | Use | 160,174 | 5,569 | 4,258 | 170,001 |
| | Use per ERUs | 40.8 | 260.9 | 297.2 | 44.0 |
| FYE 2010 | ERUs | 2,354 | 81 | 15 | 2,387 |
| | Use | 96,030 | 4,696 | 4,377 | 105,103 |
| | Customer Class | Residential | Commercial | Institutional | Total |

Table 2
Cedar Hills - Sewer Rate Study
Projected ERUs

| | | | | Number | ber | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|
| Customer Class | | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| | % Growth | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | | 2,372 | 2,390 | 2,408 | 2,428 | 2,448 | 2,468 |
| Commercial | | 81 | 18 | 81 | 61 | 61 | 61 |
| Institutional | | 15 | 15 | 15 | 15 | 15 | 15 |
| Total | | 2,405 | 2,423 | 2,441 | 2,462 | 2,482 | 2,502 |

Table 3
Cedar Hills - Sewer Rate Study
Projected Annual Indoor Water Use

| | | | | Amount (kgal) | t (kgal) | | |
|----------------|----------|----------|----------|---------------|----------|----------|----------|
| Customer Class | Use/ERU. | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 68.5 | 162,439 | 163,671 | 164,904 | 166,274 | 167,643 | 169,013 |
| Commercial | 366.3 | 6,594 | 6,594 | 6,594 | 096'9 | 6,960 | 6,960 |
| Institutional | 359.9 | 5,398 | 5,398 | 5,398 | 5,398 | 5,398 | 5,398 |
| Total | | 174,431 | 175,664 | 176,896 | 178,632 | 180,002 | 181,371 |

Table 4
Cedar Hills - Sewer Rate Study
Projected Total Wastewater Flow

Total Flow at Treatment Plant (mgd)= 0.6457

| | | | Amount (mgd) | (mgd) | | |
|----------------|----------|----------|--------------|----------|----------|----------|
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 19'0 | 19'0 | 0.62 | 0.62 | 0.63 | 0.63 |
| Commercial | 0.02 | 0.02 | 0,02 | 0.03 | 0.03 | 0.03 |
| Institutional | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 9.02 | 99.0 | 99.0 | 79.0 | 0.67 | 89.0 |

Table 5
Cedar Hills - Sewer Rate Study
Peaking Factors

| | Est. Peak |
|----------------|-------------|
| Customer Class | Hour Factor |
| Residential | 1.90 |
| Commercial | 1.90 |
| Institutional | 06.1 |

Table 6
Cedar Hills - Sewer Rate Study
Projected Flow Peaking Characteristics

| | | | Estimated Peak Hour (mgd) | k Hour (mgd) | | |
|----------------|----------|----------|---------------------------|-------------------------------|----------|----------|
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 0.85 | 0.85 | 98.0 | 0.87 | 0.87 | 0.88 |
| Commercial | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| Institutional | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Total | 16.0 | 0.91 | 0.92 | 0.93 | 0.94 | 0.94 |
| | | | | | | |
| | | Ŧ. | Excess Over Ave | Excess Over Average Day (mgd) | | |
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 0.40 | 0.40 | 0.41 | 0.41 | 0.41 | 0.42 |
| Commercial | 0.02 | 0.02 | 0.02 | 0.05 | 0.02 | 0.02 |
| Institutional | 10'0 | 10.0 | 10.0 | 0.01 | 10.0 | 0.01 |
| Total | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 | 0.45 |

Table 7 Cedar Hills - Sewer Rate Study Strength

| | BOD | LSS |
|---------------------------|--------|--------|
| Customer Class | (mg/L) | (mg/L) |
| Residential | 225 | 221 |
| Commercial | 225 | 221 |
| Institutional | 225 | 221 |
| Approximate Cost Division | 21% | |
| | | |

Table 8
Cedar Hills - Sewer Rate Study
Projected Strength Characteristics

| | | | BOD (lbs/year) | os/year) | | |
|----------------|----------|----------|-----------------------------|-----------------|----------|----------|
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 414,816 | 417,964 | 421,112 | 424,609 | 428,107 | 431,604 |
| Commercial | 16,839 | 16,839 | 16,839 | 17,774 | 17,774 | 17,774 |
| Institutional | 13,785 | 13,785 | 13,785 | 13,785 | 13,785 | 13,785 |
| Total | 445,440 | 448,588 | 451,736 | 456,168 | 459,666 | 463,163 |
| | | | | | | |
| | | | TSS (lbs/year) | s/year) | | |
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 407,433 | 410,525 | 413,616 | 417,052 | 420,487 | 423,923 |
| Commercial | 16,539 | 16,539 | 16,539 | 17,458 | 17,458 | 17,458 |
| Institutional | 13,540 | 13,540 | 13,540 | 13,540 | 13,540 | 13,540 |
| Total | 437,512 | 440,604 | 443,695 | 448,050 | 451,485 | 454,921 |
| | | | | | | |
| | | | Weighted Average (lbs/year) | rage (lbs/year) | | |
| Customer Class | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 411,661 | 414,785 | 417,909 | 421,380 | 424,851 | 428,322 |
| Commercial | 112'91 | 112'91 | 112'91 | 17,639 | 17,639 | 17,639 |
| Institutional | 13,680 | 13,680 | 13,680 | 13,680 | 13,680 | 13,680 |
| Total | 442,052 | 445,176 | 448,300 | 452,699 | 456,170 | 459,641 |

Table 9
Cedar Hills - Sewer Rate Study
Connection Fee Revenue

| | Impact | Projected | Projected | Projected | Projected | Projected | Projected | Projected |
|--------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|
| Size of Meter | Fee (S/ERU) | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Per ERU | \$268.13 | | \$4,899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| Total Impact Fee Revenue | | \$3,850 | \$4,899 | \$4,826 | \$4,826 | \$5,631 | 85,363 | \$5,363 |
| | | | | | | | | |

Table 10
Cedar Hills - Sewer Rate Study
Non-Rate Revenue (Including Connection Fees)
3.0%

| Assumed Inflation Rate = 3.0% | 9 | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Item | Projected FYE 2012 | Projected FYE 2013 | Projected FYE 2014 | Projected FYE 2015 | Projected FYE 2016 | Projected FYE 2017 | Projected FYE 2018 |
| Operations | | | | | | | |
| Sewer Lateral Inspections | \$1,050 | 680,1\$ | \$1,130 | \$1,173 | \$1,218 | \$1,264 | \$1,313 |
| Total Operations Non-Rate Revenue | \$1,050 | \$1,089 | \$1,130 | \$1,173 | \$1,218 | \$1,264 | \$1,313 |
| Expansion and Replacement Connection Fees Total Expansion Non-Rate Revenue | \$3,850 | \$4,899 | \$4,826 \$4,826 | \$4,826 \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| Total Non-Rate Revenue | \$4,900 | \$5,988 | \$5,957 | 85,999 | 86,849 | 26,627 | \$6,675 |
| | | | | | | | |

Table 11
Cedar Hills - Sewer Rate Study
Revenue Requirements
Cash Basis

| 1,000 | Item | % Growth | Projected FVE 2012 | Projected FVE 2013 | Projected FVE 2014 | Projected FYE 2015 | Projected FYE 2016 | Projected FYE 2017 | Projected FVE 2018 |
|--|---|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | O&M | | | | | | | | |
| 1970 | Salary & Wages (Full-Time) | | \$141,600 | \$146,386 | \$151,334 | \$156,441 | \$161,784 | \$167,309 | \$173,006 |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | Overtime | | \$2,100 | \$2,171 | \$2,244 | \$2,320 | \$2,399 | \$2,481 | \$2,566 |
| STATES S | Salary & Wages (Part-Time) | | \$7,950 | \$8,219 | \$8,497 | \$8,783 | \$9,083 | \$9,393 | \$9,713 |
| Si 100 Si 104 Si 105 | Employee Benefits | | \$79,950 | \$82,652 | \$85,446 | \$88,330 | \$91,346 | \$94,466 | \$97,682 |
| 18,000 1,0 | Sewer Supplies | | \$1,000 | \$1,034 | \$1,069 | \$1,105 | \$1,143 | \$1,182 | \$1,222 |
| 18,180 1,194 1,194 1,194 1,195 1,112 1,112 1,112 1,112 1,112 1,112 1,112 1,113 1,1 | Education & Training | | \$1,500 | \$1,551 | \$1,603 | \$1,657 | \$1,714 | \$1,772 | \$1,833 |
| Signate Sign | Computer Expenses | | \$1,800 | \$1,861 | \$1,924 | \$1,989 | \$2,057 | \$2,127 | \$2,199 |
| 1,000 1,00 | Tools & Equipment | | \$1,000 | \$1,034 | \$1,069 | \$1,105 | \$1,143 | \$1,182 | \$1,222 |
| December Si 500 Si 551 Si 603 Si 604 Si 714 Si 772 Si 604 Si 774 Si 772 Si 604 Si 604 Si 604 Si 772 Si 604 | Utilities | | \$2,000 | \$2,068 | \$2,137 | \$2,210 | \$2,285 | \$2,363 | \$2,444 |
| Note | Postage | | \$1,500 | \$1,551 | \$1,603 | \$1,657 | \$1,714 | \$1,772 | \$1,833 |
| No. Si Si Si Si Si Si Si S | Blue Stakes | | 0\$ | 0\$ | \$0 | 80 | \$0 | \$0 | \$0 |
| Second State | Communications & Telephone | | \$1,500 | \$1,551 | \$1,603 | \$1,657 | \$1,714 | \$1,772 | \$1,833 |
| Signo Sign | Professional & Technical | | \$2,000 | \$2,068 | \$2,137 | \$2,210 | \$2,285 | \$2,363 | \$2,444 |
| SST0,000 SS98,500 S628,425 S699,846 S692,839 ST77,480 SS9,200 SS98,500 | Engineering Services | | \$1,000 | \$1,034 | \$1,069 | \$1,105 | \$1,143 | \$1,182 | \$1,222 |
| Section Sect | TSSD Fees | | \$570,000 | \$598,500 | \$628,425 | \$659,846 | \$692,839 | \$727,480 | \$763,855 |
| SECOND S | TSSD Billing | | \$0 | 0\$ | 0\$ | \$0 | 0\$ | \$0 | \$0 |
| National Color | Sewer Television Expenses | | \$2,000 | \$2,068 | \$2,137 | \$2,210 | \$2,285 | \$2,363 | \$2,444 |
| VB (40% of 1/2) S20,833 S30,733 S30,793 S31,213 S30,613 S10,28,069 S10,24,000 S10,24,060 S10,24,060 S10,24,060 S10,793 S31,213 S30,613 S30,933 S30,793 S31,213 S30,613 S30,933 S31,213 S30,613 S31,239 S | Insurance | | \$7,500 | \$7,754 | \$8,016 | \$8,286 | \$8,569 | \$8,862 | \$9,163 |
| VB (40% of 1/2) \$30,853 \$30,333 \$30,793 \$31,213 \$30,613 \$30,993 rent \$30,883 \$30,333 \$30,793 \$31,213 \$30,613 \$30,993 semint \$30,883 \$30,333 \$50,793 \$31,213 \$30,613 \$30,993 semint \$ 10,076 \$10,076 \$10,153 \$10,229 \$10,314 \$10,399 nent \$ 72,500 \$10,076 \$10,153 \$10,229 \$10,314 \$10,399 nent \$ 72,500 \$10,076 \$10,076 \$10,209 \$10,309 \$10,399 nents \$ 300,000 \$10,076 \$10,000 \$10,000 \$10,313 \$10,314 \$10,399 nents \$ 300,000 \$10,076 \$10,000 \$10,000 \$10,300 \$10,314 \$10,319 \$10,329 pgrade \$ 300,000 \$10,000 \$10,000,303 \$10,000,303 \$10,000,303 \$11,300 \$113,200 \$113,200 fund \$ 10,000 \$1,100 \$1,100 \$1,100 \$113,000 | Total O&M | | \$824,400 | \$861,499 | \$900,313 | \$940,911 | \$983,501 | \$1,028,069 | \$1,074,678 |
| VB (40% of 1/2) \$30,853 \$30,333 \$30,793 \$31,213 \$30,613 \$30,993 Saturation Saturation FVE 2013 FVE 2014 FVE 2013 FVE 2014 FVE 2015 FVE 2017 < | | | | | | | | | |
| National Color | Debt Service | | 20000 | 630 333 | 410.703 | 671.717 | 670.613 | \$20,000 | 620.222 |
| s \$30,883 \$30,333 \$30,793 \$31,213 \$30,613 \$30,993 s 2012 FYE 2013 FYE 2014 FYE 2015 FYE 2016 FYE 2017 FYE 2017 FYE 2017 FYE 2017 FYE 2017 FYE 2017 FYE 2014 FYE 2017 FYE 2017 FYE 2014 FYE 2014 FYE 2015 FYE 2017 FYE 2016 FYE 2014 FYE 2017 FYE 2014 FYE 2014 FYE 2017 FYE 2014 FYE 2014 FYE 2015 FYE 2015 FYE 2014 FYE 2015 FYE 2014 FYE 2015 | 2006 Excise Tax Bond - PWB (40% of 1/2) | | \$30,853 | \$30,333 | \$30,793 | \$31,213 | \$30,613 | \$50,993 | \$30,333 |
| s 2012 FYE 2013 FYE 2014 FYE 2015 FYE 2015 FYE 2017 FYE 2017 FYE 2016 FYE 2016 FYE 2017 FYE 20 | Total Debt Service | | \$30,853 | \$30,333 | \$30,793 | \$31,213 | \$30,613 | \$30,993 | \$30,333 |
| Second State | Frantion and Replacement | | 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| S 72,500 S 400,000 S 250,000 S | Server Construction Projects | | | \$10.076 | \$10.153 | \$10,229 | \$10.314 | \$10.399 | \$10,483 |
| rades vernents nents pgrade on Fund S 300,000 S 300,000 S 400,000 S 250,000 S 250,000 S 313,200 S 32,883 S 39,588 S 340,964 S 49,664 S 69,198 S 1,000,303 S 1,022,828 S 1,022,828 S 1,000,303 S 1,022,828 S 1,024,826 S 1,024,836 S 1,034,836 S | Ago West Course Improvement | | | | | | | | |
| vernents \$ 400,000 \$ 250,000 nents \$ 400,000 \$ 250,000 pgrade \$ (340,955) \$ 80,476 \$ (143,033) \$ 133,200 on \$ 29,648 \$ 49,664 \$ 69,198 \$ 90,705 \$ 117,281 \$ 133,200 ts \$ 884,900 \$ 9941,495 \$ 1,000,303 \$ 1,062,828 \$ 1,131,395 \$ 1,202,661 uue \$ 1,050 \$ 1,089 \$ 1,130 \$ 1,134 \$ 1,202,661 \$ 5,531 \$ 5,531 \$ 5,531 \$ 5,531 | A Continue Forth Street Handwellie | | 1 | | | | | | |
| Perments Permen | American roik Sewel Opgranes | | | | | | | | |
| Pgrade on Fund 5 (352,853) \$ 39,588 \$ (340,955) \$ 80,476 \$ (143,033) \$ 133,200 5 29,648 \$ 549,664 \$ \$69,198 \$ \$90,705 \$ \$117,281 \$ \$143,599 1s | Account Road Sewer Implovements | | | | | | | | |
| Pgrade on Fund \$ (352,853) \$ 39,588 \$ (340,955) \$ 80,476 \$ (143,033) \$ 133,200 \$ 29,648 \$ 549,664 \$ 569,198 \$ 890,705 \$ 117,281 \$ 133,200 Iss \$ 884,900 \$ \$941,495 \$ \$1,000,303 \$ 1,062,828 \$ 1,131,395 \$ 1,202,661 Inde \$ \$ 1,050 \$ 1,089 \$ 1,130 \$ 1,130 \$ 1,134,485 \$ 1,248,485 \$ 1,248,485 \$ 1,248,485 \$ 1,248,485 \$ 1,194,495 \$ 1 | 4000 West Sewer Improvements | | | | | | | | 400 000 |
| Paratecon | Order Hills Deine Commer Hearth | | | | | | | | |
| Fund 5 (143,033) \$ 39,588 \$ (340,955) \$ 80,476 \$ (143,033) \$ 133,200 15 | Cedal IIIIIS DIIVE SEWEI Opgrane | | | | | | | | |
| 19,000 1 | Sewer Outlant Line Extension | | | 6 | | | | | (720 720) |
| S | I ransier to/(from) Keserve rund | | - | A | | | | | |
| 155 1202,661 1202, | Total Capital Outlays | | | \$49,664 | 861,698 | \$90,705 | \$117,281 | \$143,599 | \$173,648 |
| Tue \$1,050 \$1,089 \$1,130 \$1,173 \$1,218 \$1,264 \$1,264 \$1,089 \$4,826 \$4,826 \$5,631 \$5,363 \$5,36 | | | | 2041 402 | £1 000 303 | 010 130 13 | 61 121 206 | 61 203 661 | 61 278 650 |
| Tue S1,050 \$1,089 \$1,130 \$1,173 \$1,218 \$1,264 \$1,264 \$1,265 \$1,26 | 1 otal nevenue nequirements | | | 2011 | Cochoodic | 240440 | C Children | | 1000 |
| S. S | Operations Non-Rate Revenue | | \$1.050 | \$1 089 | \$1.130 | \$1.173 | \$1.218 | \$1.264 | \$1.313 |
| C 980 DD C 035 507 C 000 34 C 1 134 54 C 1 194 634 | Expansion Non-Rate Revenue | | \$3.850 | \$4.899 | \$4,826 | \$4,826 | \$5,631 | \$5,363 | \$5,363 |
| 6 990 000 C 035 507 C 000 34K C 1 16K 879 C 1 174 54K C 1 10K 034 | | | | | | | | | |
| +CO*OCT* | Net Revenue Requirements | | \$ 880,000 | \$ 935,507 | \$ 994,346 | \$ 1,056,829 \$ | \$ 1,124,546 | \$ 1,196,034 | \$ 1,271,983 |

Table 12
Cedar Hills - Sewer Rate Study
Cost Allocation Percentages to Service Characteristics

| Item | Volume | Capacity | Strength | Customer | Total |
|----------------------------|--------|----------|----------|----------|-------|
| O&M | | | | | |
| Salary & Wages (Full-Time) | 20% | %0 | %0 | %08 | 100% |
| Overtime | 20% | %0 | %0 | %08 | 100% |
| Salary & Wages (Part-Time) | 30% | %0 | %0 | %08 | 100% |
| Employee Benefits | 20% | %0 | %0 | %08 | 100% |
| Sewer Supplies | 20% | %0 | %0 | %08 | 100% |
| Education & Training | 20% | %0 | %0 | %08 | 100% |
| Computer Expenses | 20% | %0 | %0 | %08 | 0001 |
| Tools & Equipment | 20% | %0 | %0 | %08 | 100% |
| Utilities | 50% | %0 | %0 | %08 | 100% |
| Postage | 70% | %0 | %0 | %08 | 100% |
| Blue Stakes | 20% | %0 | %0 | %08 | 100% |
| Communications & Telephone | 20% | %0 | %0 | %08 | 100% |
| Professional & Technical | 70% | %0 | %0 | 80% | 100% |
| Engineering Services | 30% | %0 | %0 | %08 | 100% |
| TSSD Fees | %08 | %0 | 20% | %0 | 100% |
| TSSD Billing | 80% | 0%0 | 20% | %0 | 100% |
| Sewer Television Expenses | 20% | 0%0 | %0 | 80% | 100% |
| Insurance | 20% | %0 | %0 | %08 | 100% |

Table 13
Cedar Hills - Sewer Rate Study
Fixed Assets Allocations to Service Characteristics

| 1tem Assets Volume | Percent | | | | | A | 4llocated Amount | ıı, | |
|----------------------------|--------------|----------|----------|-------|-------------|----------|------------------|-------------|-------------|
| | ime Capacity | Strength | Customer | Total | Volume | Capacity | Strength | Customer | Total |
| Main Lines \$6,668,417 20% | 20% 0% | %0 % | %08 | 100% | \$1,333,683 | \$0 | \$0 | \$5,334,734 | \$6,668,417 |
| Total \$6,668,417 | | | | | \$1,333,683 | \$0 | 80 | \$5,334,734 | \$6,668,417 |
| Percent | _ | | | | 20.0% | 0.0% | 0.0% | 80.0% | 100.0% |

Labor 144
Codar Hills - Nower Rate Study
ration of O&M Costs to Nervice Characterist

| | | ٵ | 13.00 3.74 | | - | | FYEZet | 976 | | - | | F3 E 2015 | | | | H | FVE 2016 | | _ | | FA E: 2017 | | | | | FY E 2018 | |
|--|-----------|----------|------------|-----------|------------|--------------|------------------|-----------------|-------------------|--------------|-------------|-----------|------------|------------|-----------|--------------|-----------------|-------------------|---------------------|------------|------------|-----------|-----------|-----------|----------|------------|--------------|
| 4 | Volume | Catacity | H | f undomer | Total | Volume Cop | Capacity Merngth | gth ('unfollere | ner Tetal | Volume | L'appentity | Strongth | Customer 1 | Total | Volume C | Specify Sirv | Strongth Cust | selemen Total | I Volume | r Capacity | Strength | Customer. | Tetal |) eleme | Capacity | Strength (| grid water F |
| | t | t | H | | - | | ⊦ | | - | - | | | L | - | - | _ | | | _ | - | | | | | | | |
| the ball the control of the Towns | 24,013 | 4th | til. | \$117.100 | 8146 126 | \$ 30.267 | 175 | 50 5121.06 | 1167 \$151,334 | 11.23 | \$0 | \$0 | 1125,151 | 114 95 15 | \$12.147 | \$0 | 30 \$1 | 29427 \$161,784 | 781 331-462 | 102 30 | \$0 | \$111.847 | \$167,309 | \$ 24 601 | 0\$ | 20 | \$138 405 |
| DOCY LE VI Spring of time a same of | P.P. | \$05 | So | \$1.737 | \$2171 | 575 | - 12 | 100 | 745 82.244 | L | | 30 | \$1,2% | \$2.120 | CES | 10 | \$0 | | 12,199 | \$496 \$0 | \$10 | \$1,985 | \$2,481 | \$114 | 80 | 65 | \$2058 |
| Salary & Wester Ober Time) | 17913 | 108 | 80 | 20.173 | \$8.219 | \$1.600 | OŞ. | 20 | \$6.797 \$1.493 | 17.13 | \$11 | | \$7.u27 | 147.48 | \$1817 | at | \$13 | \$7.267 \$9 | 19 0011 311 | SLIP 50 | 50 | \$7,414 | \$9,393 | \$1,943 | OS. | \$10 | \$7,771 |
| in relation Hamselde | (10,470) | 30 | Sco | \$100.122 | \$82.652 | \$17.009 | 170 | Sol Sal | \$68 157 \$21 +46 | 46 \$17,466 | L | 03 | \$ 70 (64 | SK# 830 | \$11.269 | tr\$ | \$0 | J1077 191. | 591,346 \$ \$1E.893 | | \$8 | \$75.571 | \$34.466 | \$19536 | ns sn | 35 | \$73.146 |
| Con - Co- | 6,613 | 40 | 40 | 5877 | \$1.014 | F168 | 171 | 80 | \$244 \$1.0E/4 | L | 95 | 30 | 7885 | \$1.105 | 5239 | 201 | 30 | 161 11 | 3 17778 | \$2.90 Su | \$0 | \$945 | | \$244 | 20 | 80 | \$977 |
| A to continue the Proposition | 0110 | 100 | for | 10, 10 | 11311 | 1717 | 05 | \$0 | \$1.2x2 \$1.600 | 193 | \$0 | | Ē | \$1657 | 1715 | \$0 | \$co | \$1,171 \$1, | 31,714 5 | 1351 | | \$3.411 | \$1.772 | \$167 | OS. | 0% | \$1.466 |
| Constitution of the same | 1213 | | 40 | 11 120 | 1/8/1 | \$383 | Si Si | 5 | 11919 81924 | L | 20% | L | 16,18 | \$1,989 | = | 20,50 | \$to | \$1645 \$2 | \$2,057 | 15775 | \$40 | \$1,701 | \$2127 | \$410 | S | 65 | \$1.759 |
| trailway repetition | 6 40.7 | 9 | 100 | 6223 | 41012 | FICE | 103 | 9 | Parts 1183 | L | L | 30 | 2884 | \$1,104 | 2,12 | ā | \$0 | \$914 | 117111 | \$2.16 | | \$16\$ | \$1,182 | 1775 | ns . | \$10 | \$977 |
| US & Palmaratria | 7173 | 5 | 9 | 77.0 | No. 2 | 1177 | S | 3 | | 17 5412 | L | | 11,762 | \$2210 | 2437 | 10% | 105 | \$1,020 52 | \$2285 S | | \$30 | 51,890 | 52, 161 | \$489 | 0\$ | 03 | \$1,915 |
| - Interest | C Color | 40 | 100 | 15, 13 | IW IS | - | 100 | 15 | \$1.22.3 | | 3 | 2 | 11,135 | \$1657 | 1115 | ā | \$0 | \$1,371 \$1, | 11,714 5 | 25 | | \$1,412 | \$1.77.2 | 1945 | | 30 | \$1.466 |
| Sealing Control of the | 103 | 100 | 100 | 5 | 5 | 9 | 9 | 9 | | 50 30 | | | 95 | 30 | Q. | 175 | \$0 | \$0 | \$0. | 30 30 | L | Su. | L | 03 | | 170 | OS. |
| and the same of th | 0100 | 100 | 611 | 41.70 | 11411 | 1633 | 9 | 3 | 11.282 | - | L | | 11 126 | \$1.657 | 2113 | 200 | 30 | \$1,371 \$1, | \$1.714 | 23.21 | \$0 | \$1713 | \$1,772 | \$367 | 3 | n3 | \$1.466 |
| Opening the Company of the Company o | | 203 | 9 | 21.0% | \$2,088 | 2427 | 134 | 3 | L | L | | | L | \$2,210 | \$457 | 30 | \$0 | \$1,828 \$2, | \$2285 | \$473 | | \$1,850 | \$2,361 | 5489 | n\$ | \$10 | \$1,915 |
| Technology Safety | 1063 | 5 | 105 | 5227 | 21.034 | \$214 | 3 | 3 | \$211 | L | ā | 3 | L | \$11,105 | 8239 | 10 | \$0 | \$914 \$1. | \$1,143 \$ | 236 30 | 30 | SHIS | \$1.182 | \$24H | OS. | 20 | 8 9 77 |
| NSU From | 5478 3030 | L | \$119.7kg | 3 | \$ 598 983 | \$102,740 | \$0 \$125.68 | 589 | \$0 \$628,425 | 35. | 18 | \$111.959 | a\$ | \$639 1146 | 1554.271 | Ш | \$131,564 | \$0 \$692839 | 139 \$111,914 | | \$141.4% | | \$727 | \$611,084 | 30 | \$152.771 | M |
| Test billiam | 5 | 40 | 103 | 3 | 3 | S | 10% | Si | 30 | 30 30 | 20% | 30 | 0% | 30 | \$10 | \$40 | 301 | 30 | \$0. | \$0.0 | 500 | \$10 | \$0 | 50 | 3. | ŝ | GS. |
| Comes Laboration Communication | 77 | 173 | fu) | 23.652 | S y con | \$427 | 90 | 25 | \$1.710 32.117 | L | 30 | L | \$1,76 | \$2,210 | 253 | \$0 | 30 | \$1,124 32 | \$228 | 3473 30 | \$00 | \$1.150 | \$2,363 | SHIN | | 0\$ | \$1.935 |
| NAME AND ADDRESS OF TAXABLE PARTY AND ADDRESS | 199 19 | 3 | ā | 10 20 | 17,178 | \$160 | 03 | 98 | | 16 \$1.657 | 25 | 2 | 14.679 | \$8.286 | \$1,714 | 20% | \$40 | 36.115 31, | | | 20 | \$7.1989 | \$28.86.3 | \$1,811 | nş | 65 | \$7,111 |
| del | 45.11.480 | L | 5119.788 | Ļ | L | 9857,110 | SD \$125.48 | a | \$16,8992 BJ2 | 13 \$584,090 | 3 | \$131,969 | \$224,891 | 116'096\$ | \$612,463 | 15 05 | \$1,18,548 \$2. | K111,53e 9961,5e | 3 | 102 50 | \$145,496 | ã | 91,0 | \$673,340 | | 111,1212 | \$348,459 |
| | | L | | 1 | | 4 5 460. | 0.000 | L | 11 164 166 | 788 67 786 | 748.0 | 14 0% | 7 8 861 | 700 001 | 43 197 | 0.00% | 14114 | 1001 21914 | 180 850 | 62.5% RB% | | 23.4% | L | 47 674 | 100 | 10 2 00 | 7 5 8 94 |

Table 15 Cedar Hills - Sever Rate Study

| | - | | 67.67.7011 | | | | | F3 3: 2854 | | 1 | | M | FT F. 1815 | | | | F. F. 1016 | 20 | | _ | | FA E 2017 | | | | - | VE 2010 | |
|------------------------------------|-----------|-------------|--------------|--------------|-----------|-----------|------------------|------------|---------------|------------|------------|----------------|------------|----------------|--------------|-------------|---------------|---------------|--------------|-----------|-----------|-----------|------------|-------------|------------|------------|------------|-----------------------|
| | | C. Carrello | All remodels | Continues of | Tested | Volume | N Name of Street | Ĕ | T. Totalement | Total | Volume Can | Camarity Sitra | Ĕ | tesfederer Tal | Total Volume | We Capacity | Hy Strength | the Curbonies | Tatal | Volume | Capacity. | Strength | (nedomer. | Tetel | Voleme | Capacity 5 | Strength (| terdemer T |
| | 4411 4101 | 1 | ALIN DAL | C. 1111 3000 | CEV 1/03 | \$442.118 | 173 | 125,625 | 3 | 11 | 184 (98) | 80 813 | - | 3224891 894 | = | \$612.403 | \$0 \$111,564 | \$232530 | 30 \$983 xel | \$642,102 | 200 | \$145.496 | 1740.471 | \$1,028,009 | \$673.248 | 08 | 177.751\$ | \$248619 \$1,07467 |
| | 45.06.1 | 1 | 4/1 | 27.1.96 | 4 10 111 | 46.160 | 173 | 3 | S TANKS | 1 | \$6.241 | L | ľ | 124.970 \$3 | 11211 | 1219 | 30 | \$0 \$24.490 | CH STORY | 10138 | log. | g | 524,794 | \$ 341 003 | D5 940 98 | \$31111 | \$1000 | 11 ON S 11 OF SEC. 12 |
| THE | 10011 | - | 103 | 430.311 | 4.00 664 | 411241 | 5 | L | L | \$ 869 198 | 17 11 | \$10 | ľ | 72,964 \$30 | 541,705 \$21 | 21.4% | | \$0 \$91825 | 25 \$117,241 | \$28,730 | 311 | 0% | 8114 1179 | \$141,499 | SH 730 | OS. | 0\$ | \$118,918 |
| Accept. | | | | | 0.3 (1963 | 6.361 | 15 | L | L | 17.11 | 163 | ţu. | | | L | 2758 | 30 | \$172 | Ĺ | | 80 | | L | \$1,264 | \$822 | 0\$ | \$127 | Skill |
| Personal Page Male Revenue | S College | 1 | | El olo | 14.874 | 5000 | 3 | 3 | 1881 | 14 8.50 | \$76.5 | 2 | Ĺ | | 14 11.26 11 | 47.17 | L | \$0 \$4 Serv | 11 11 11 | \$1073 | | 371 | 37.73 | \$5. bol | \$1.072.53 | \$1163 | \$42CHD | 54 No.14 |
| THE POST IN COLUMN TO SERVICE WHEN | 777 373 | | 21112 | 5279.211 | ₽ | 15675.451 | 8. | L | L | L | \$444,730 | LIS B2 | 11,185 | Paits 112x102 | 51,056,029 | 864,01-62 | 50 S138,3% | 5344852 | \$1,134,546 | 5475,158 | 95 | \$145,317 | \$378,458 | \$1,1%,834 | \$712,150 | 95 | \$152,584 | 547,249 \$1,271,98 |

| | tels | agth Customer Total | \$142.187 \$400,715 \$1,207,527 | Ш | SENT \$2.42 \$23.79 | \$152,544 \$467,249 \$1,271,983 | 4 | Account |
|--|------------|-----------------------------|--|--------------|---------------------|---------------------------------|---|---|
| | FYEDRI | Capacity Strength | 213 | -3 | | S15 | | Demand Story |
| | | Valence | \$66162433 | \$27,129.55 | \$21,195.75 | 5712,150 | - | Ave broand if honord Storneth |
| | | Total | \$1,141,17 | SHAII | \$28.871 | \$1,196,834 | | _ |
| | | Strength Customer | \$370.414 | \$2.875 | \$2270 | \$375,558 | | Account |
| | FN E 2017 | | \$135.340 | \$4619 | 20.15 | \$145,317 | | Streeth |
| | | Agrander,) | 50 | PS | OS. | 3. | | Ave Details 19, Tenant Strength |
| | | Volume | \$6,38,503 | L | \$20,241 | \$675,150 | | Ave better |
| | | Total | \$1005,903 | 4 | \$25634 | \$3,124,546 \$675,158 | | |
| | | Customer | \$141.271 | L | \$2.100 | \$344,052 | | Ave Demont 19 Demont Stewarth Avenue |
| | F) E 2816 | Copacily Strength | 1128 1121 | П | L | \$132,9% | | Steenah |
| | | Copperiity | 30 | 30 | 10 | 3 | | I Il Demand |
| | L | Volume | 118 5045 | L | L | \$640,898 | | Ave I beam |
| Study r Clamen | | Tetal | ١. | 1 | L | \$1,054,029 | | L |
| Table 16 1 - Sewer Rate: no to Custome | | Customer | 4317441 | ╀ | L | \$318,244 | | Acres and |
| Table 16 Cedar Bills - Sever Rate Study Cost Allocations to Customer Classes | P3 6: 2005 | Cornector Strength Customer | \$137 EANS | L | L | \$131,005 | | diameter. |
| 5 | | Commerser | 40 | 200 | | \$5 | L | I to Phone and |
| | | Volume | 400,000 | ļ | L | ľ | | No. Change 10 Comme! Counsel. Acres and |
| | | Total | ļ | L | 1 | ľ | | |
| | | Conferen | 4789 171 | 21.5 | П | ľ | | 1 |
| | FA E 2414 | Mremeth | City Over | 167 | 11 257 | \$118,527 | | 1 |
| | | Commette | | 3 | 3 | B | | 1 |
| | | Volume | 10.11 | 1 | 1 | ╀ | L | |
| | | Tested | ľ | 1 | ļ | 1 | | |
| | | Content or | 100 | | | ľ | L | 1 |
| | 63 5 7013 | Arrendh | THE PARTY OF THE P | 1 | L | 5 | | |
| | | C'antino (By | | 2 | 03 | 9 | | |
| | | 1 | | 3 Will and 1 | 2 16. 2944 | \$548.747 | | |
| | | - | | | | | | |

Table Rates 17
Cedar Hills - Sewer Rate Study
Existing Rates and Projected Revenue

| 0 | | | | | | |
|----------|---|--|--|-----------|--|---|
| \$13.50 | \$384,264 | \$387,180 | \$390,096 | \$393,336 | \$396,576 | \$399,816 |
| \$13.50 | \$2,916 | \$2,916 | \$2,916 | \$3,078 | \$3,078 | \$3,078 |
| \$13.50 | \$2,430 | \$2,430 | \$2,430 | \$2,430 | \$2,430 | \$2,430 |
| | | | | | | |
| Existing | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| \$2.85 | \$462,950 | \$466,463 | \$469,976 | \$473,880 | \$477,783 | \$481,687 |
| \$2.85 | \$18,793 | \$18,793 | \$18,793 | \$19,837 | \$19,837 | \$19,837 |
| \$2.85 | \$15,385 | \$15,385 | \$15,385 | \$15,385 | \$15,385 | \$15,385 |
| | \$13.50 \$13.50 \$13.50 \$2.85 \$2.85 \$2.85 | .50 FYE 2 85 85 85 85 85 85 85 | .50 \$2,410 .50 \$2,430 .85 \$462,950 \$4 .85 \$18,793 \$4 .85 \$15,385 \$ | Solution | .50 \$2,430 \$2,430 \$2,430 \$2,430 .50 \$2,430 \$2,430 \$2,430 .85 FYE 2013 FYE 2014 FYE 2015 FYE .85 \$462,950 \$466,463 \$469,976 \$4 .85 \$18,793 \$18,793 \$8 .85 \$15,385 \$15,385 \$8 | .50 \$2,710 \$2,710 \$2,910 .50 \$2,430 \$2,430 \$2,430 \$2,430 .50 \$2,430 \$2,430 \$2,430 \$2,430 .85 \$462,950 \$466,463 \$469,976 \$473,880 \$4 .85 \$18,793 \$18,793 \$19,837 \$.85 \$15,385 \$15,385 \$15,385 \$\$ |

| Revenue - Existing Rates | \$886,738 | \$893,167 | \$899,596 | \$907,946 | \$915,089 | \$922,233 |
|--------------------------|------------|-------------|-------------|-------------|-------------|-------------|
| Revenue Required | \$935,507 | \$994,346 | \$1,056,829 | \$1,124,546 | \$1,196,034 | \$1,271,983 |
| Surplus/(Shortfall) | (\$48,769) | (\$101,179) | (\$157,232) | (\$216,600) | (\$280,945) | (\$349,751 |

Table Rates 18 Cedar Hills - Sewer Rate Study Calculated Rates

| Monthly Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Residential | \$9.36 | \$10.09 | \$10.86 | \$11.71 | \$12.61 | \$13.56 |
| Commercial | \$9.36 | \$10.09 | \$10.86 | \$11.71 | \$12.61 | \$13.56 |
| Institutional | \$9.36 | \$10.09 | \$10.86 | \$11.71 | \$12.61 | \$13.56 |
| | | | | | | |
| Volume Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Volume Component | | | | | | |
| Residential | \$3.13 | \$3.28 | \$3.43 | \$3.58 | \$3.75 | \$3.93 |
| Commercial | \$3.13 | \$3.28 | \$3.43 | \$3.58 | \$3.75 | \$3.93 |
| Institutional | \$3.13 | \$3.28 | \$3.43 | \$3.58 | \$3.75 | \$3.93 |
| Capacity Component | | | | | | |
| Residential | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Commercial | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Institutional | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Strength Component | | | | | | |
| Residential | \$0.69 | \$0.71 | \$0.75 | \$0.77 | \$0.81 | \$0.84 |
| Commercial | 80.69 | \$0.71 | \$0.75 | \$0.77 | \$0.81 | \$0.84 |
| Institutional | \$0.69 | 12.08 | \$0.75 | \$0.77 | \$0.81 | \$0.84 |
| Total Volume Rate | | | | | | |
| Residential | \$3.81 | \$3.99 | \$4.18 | \$4.36 | \$4.56 | \$4.77 |
| Commercial | \$3.81 | \$3.99 | \$4.18 | \$4.36 | \$4.56 | \$4.77 |
| Institutional | \$3.81 | \$3.99 | \$4.18 | \$4.36 | \$4.56 | \$4.77 |
| | | | | | | |
| Industrial Surcharges | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Volume Surcharge (\$/kgal) | \$3.13 | \$3.28 | \$3.43 | \$3.58 | \$3.75 | \$3.93 |
| Capacity Surcharge (\$/gpd) | \$0.000 | \$0.000 | \$0.000 | \$0.0000 | \$0.000 | \$0.000 |
| BOD Surcharge (\$/lb) | \$0.2093 | \$0.2182 | \$0.2275 | \$0.2366 | \$0.2465 | \$0.2569 |
| TSS Surcharge(\$/1b) | \$0.1590 | \$0.1658 | \$0.1728 | \$0.1797 | \$0.1873 | \$0.1952 |
| | | | | | | |

Table Rates 19 Cedar Hills - Sewer Rate Study Recommended Rates

| Monthly Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|------------------------|----------|----------|----------|----------|----------|----------|
| 3/4-inch water meter | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.50 | \$13.56 |
| 1-inch water meter | \$17.18 | \$17.18 | | \$17.18 | \$17.18 | \$17.26 |
| 1 1/2-inch water meter | \$22.09 | \$22.09 | | | \$22.09 | \$22.20 |
| 2-inch water meter | \$35.59 | \$35.59 | | | \$35.59 | \$35.76 |
| 3-inch water meter | \$135.00 | \$135.00 | \$135.00 | | \$135.00 | \$135.64 |
| 4-inch water meter | \$171.82 | \$171.82 | | | \$171.82 | \$172.63 |
| 6-inch water meter | \$257.73 | \$257.73 | | | \$257.73 | \$258.95 |
| 8-inch water meter | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$355.91 | \$357.60 |
| 10-inch water meter | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$490.91 | \$493.24 |
| | | | | | | |
| Total Volume Rate | | | | | | |
| Residential | \$3.13 | \$3.43 | \$3.74 | \$4.06 | \$4.41 | \$4.77 |
| Commercial | \$3.13 | \$3.43 | \$3.74 | \$4.06 | \$4.41 | \$4.77 |
| Institutional | \$3.13 | \$3.43 | \$3.74 | \$4.06 | \$4.41 | \$4.77 |
| | | | | | | |

APPENDIX D DETAILED STORM DRAIN RATE MODEL TABLES

10-Year Budget Plan - Storm Drain

| | | Historic Year | | | | Projected Year | d Year | | |
|---|-----------|---------------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
| | FYE 2010 | FYE 2011 | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Total Number of Accounts | 2,032 | 2,032 | 2,365 | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |
| % Growth from Previous Year | - | %00 0 | 16 39% | 0 76% | 0.49% | 0 75% | 0 83% | 0.82% | %180 |
| | | | : | | | | | | |
| Expenditures | | | | | | | | | |
| O&M | \$17,461 | \$207,901 | \$232,200 | \$240,048 | \$248,162 | \$256,537 | \$265,298 | \$274,358 | \$283,700 |
| Debt Service | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$0 |
| Total Capital Expenditures | 0\$ | \$46,779 | \$80,000 | \$80,000 | \$80,000 | \$10,000 | \$410,300 | \$10,609 | \$10,927 |
| Total Expenditures | 817,461 | \$254,680 | \$312,200 | 8320,048 | \$328,162 | \$266,537 | 8675,598 | \$284,967 | \$294,627 |
| | | | | | | | | | |
| Capital Expenditures from Bond Proceeds | 0\$ | 0\$ | 0\$ | 80 | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ |
| Capital Expenditures from Reserves | 0\$ | \$46,779 | \$80,000 | \$80,000 | \$80,000 | \$10,000 | \$410,300 | 609'01\$ | \$10,927 |
| | | | | | | | | | |
| Income | | | | | | | | | |
| Other Non-Rate | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$0 |
| Sales - Existing Rates | \$166,319 | \$184,535 | \$215,000 | \$216,636 | \$218,273 | \$219,909 | \$221,727 | \$223,545 | \$225,364 |
| Projected Income - Existing Rates | \$166,319 | \$184,535 | \$215,000 | \$216,636 | \$218,273 | \$219,909 | \$221.727 | \$223,545 | \$225.364 |
| | | | | | | | | | |
| System Investment Goal | \$91,486 | \$94,231 | \$112,500 | \$116,731 | \$121,115 | \$125,656 | \$130,465 | \$135,449 | \$140,614 |
| Recommended Long-term Level of Funding | \$108,947 | \$302,132 | \$344,700 | \$356,780 | \$369,277 | \$382,194 | \$395,763 | \$409,807 | \$424,314 |
| | | | | | | | | | |
| Recommended Rate Increases | | | | 6.5% | 6 5% | 6.5% | 6 5% | 6 5% | 6.5% |
| Sales Revenue With Increase | \$166,319 | \$184,535 | \$215,000 | \$230,718 | \$247,570 | \$265,639 | \$285,245 | \$306,277 | \$328,838 |
| Projected Income - Recommended Rates | 8166,319 | \$184,535 | 8215,000 | \$230,718 | 8247,570 | \$265,639 | \$285,245 | \$306,277 | \$328,838 |
| | | | | | | | | | ٠ |

Storm Drain Rate Study

Table 1
Cedar Hills - Storm Drain Rate Study
Historic Drainage Area
(acres)

| | Acres/Acct. | (kgal/month) | 0.0 | 0.2 | 0.5 | 0.0 |
|----------|-------------|----------------|-------------|------------|---------------|-------|
| | Planning | Acres/Acct. | 0,3 | 2.5 | 5,5 | 0.3 |
| | Acres per | Account | 0.3 | 2,5 | 5.5 | 0.3 |
| FYE 2012 | | Accounts | 2,349 | 7 | 6 | 2,365 |
| | Lot | Size | 705 | 18 | 49 | 772 |
| | Acres per | Account | 0.3 | 2.5 | 5.5 | 0.3 |
| FYE 2011 | | Accounts | 2,016 | 7 | 6 | 2,032 |
| | Lot | Size | 909 | 18 | 49 | 672 |
| | Acres per | Account | 0.3 | 2.5 | 5.5 | 0.3 |
| FYE 2010 | | Accounts | 2,016 | 7 | 6 | 2,032 |
| | Lot | Size | 909 | 18 | 49 | 672 |
| | | Customer Class | Residential | Commercial | Institutional | Total |

Table 2 Cedar Hills - Storm Drain Rate Study Projected Accounts

| | | | | Number | ber | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|
| Customer Class | | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| | % Growth | 0.76% | 0.76% | 0.75% | 0.83% | 0.83% | 0.81% |
| Residential | | 2,367 | 2,385 | 2,403 | 2,423 | 2,443 | 2,463 |
| Commercial | | 7 | 7 | 7 | 7 | 7 | 7 |
| Institutional | | 6 | 6 | 6 | 6 | 6 | 6 |
| Total | | 2,383 | 2,401 | 2,419 | 2,439 | 2,459 | 2,479 |

Cedar Hills - Storm Drain Rate Study Projected Drainage Area Table 3

| | Planning | | | Amount | Amount (acres) | | |
|----------------|-------------|----------|----------|----------|----------------|----------|----------|
| Customer Class | Acres/Acct. | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | 0.3 | 710 | 715 | 721 | 727 | 733 | 739 |
| Commercial | 2.5 | 81 | 18 | 18 | 18 | 18 | 18 |
| Institutional | 5.5 | 49 | 49 | 49 | 49 | 49 | 49 |
| Total | | 111 | 783 | 788 | 794 | 800 | 806 |

Table 4
Cedar Hills - Storm Drain Rate Study
Connection Fee Revenue

| | Impact | Projected |
|--------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Size of Meter | Fee (S/ERU) | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Per ERU | \$0.00 | | \$0 | \$0 | \$0 | \$0 | 80 | \$0 |
| Total Impact Fee Revenue | | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| | | | | | | | | |

Table 5
Cedar Hills - Storm Drain Rate Study
Non-Rate Revenue (Including Connection Fees)

20 Projected FYE 2018 8 8 Projected FYE 2017 20 80 Projected FYE 2016 \$0 \$0 \$0 Projected FYE 2015 S S \$0 Projected FYE 2014 20 \$0 Projected FYE 2013 \$0 \$0 Projected FYE 2012 3.0% Assumed Inflation Rate = Operations
Total Operations Non-Rate Revenue Expansion and Replacement
Total Expansion Non-Rate Revenue
Total Non-Rate Revenue

Table 6
Cedar Hills - Storm Drain Rate Study
Revenue Requirements
Cash Basis

| | | Projected | Projected | Projected | Projected | Projected | Projected | Projected |
|--|----------|-------------|-------------|-------------|------------|--------------|------------|------------|
| Item | % Growth | FYE 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| O&M | | | | | | | | |
| Salary & Wages (Full-Time) | | \$130,850 | \$135,273 | \$139,845 | \$144,565 | \$149,502 | \$154,607 | \$159,871 |
| Overtime | | \$2,500 | \$2,585 | \$2,672 | \$2,762 | \$2,856 | \$2,954 | \$3,054 |
| Salary & Wages (Part-Time) | | \$5,750 | \$5,944 | \$6,145 | \$6,353 | \$6,570 | \$6,794 | \$7,025 |
| Employee Benefits | | \$76,200 | \$78,776 | \$81,438 | \$84,187 | \$87,062 | \$90,035 | \$93,101 |
| Storm Drain Supplies | | \$3,000 | \$3,101 | \$3,206 | \$3,314 | \$3,428 | \$3,545 | \$3,665 |
| Dues & Subscriptions | | \$2,000 | \$2,068 | \$2,137 | \$2,210 | \$2,285 | \$2,363 | \$2,444 |
| Education & Training | : | \$1,000 | \$1,034 | \$1,069 | \$1,105 | \$1,143 | \$1,182 | \$1,222 |
| Computer Expenses | | \$1,200 | \$1,241 | \$1,282 | \$1,326 | \$1,371 | \$1,418 | \$1,466 |
| Tools & Equipment | | \$2,000 | \$2,068 | \$2,137 | \$2,210 | \$2,285 | \$2,363 | \$2,444 |
| Communications & Telephone | | \$1,500 | \$1,551 | \$1,603 | \$1,657 | \$1,714 | \$1,772 | \$1,833 |
| Professional & Technical | | \$1,000 | \$1,034 | 690'1\$ | \$1,105 | \$1,143 | \$1,182 | \$1,222 |
| Testing | | \$200 | \$207 | \$214 | \$221 | \$229 | \$236 | \$244 |
| Insurance | | \$5,000 | \$5,169 | \$5,344 | \$5,524 | \$5,713 | \$2,908 | \$6,109 |
| Total O&M | | \$232,200 | \$240,048 | \$248,162 | \$256,537 | \$265,298 | \$274,358 | \$283,700 |
| | | | | | | | | |
| Debt Service | | | | | | | | |
| Total Debt Service | | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| | | | | | | | | |
| Expansion and Replacement | | 2012 | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Old Town Storm Drain Retention Project | | | | | | \$ 400,000 | | |
| Rehabilitation and Replacement Budget | | \$ 80,000 | \$ 80,000 | \$ 80,000 | \$ 10,000 | \$ 10,300 | \$ 10,609 | \$ 10,927 |
| Transfer to/(from) Reserve Fund | | \$ (97,200) | \$ (89,331) | \$ (80,592) | \$ (898) | \$ (390,354) | \$ 21,309 | \$ 34,210 |
| Total Capital Outlays | | \$ (17,200) | (\$9,331) | (\$592) | \$9,102 | \$19,946 | 831,918 | \$45,138 |
| | | | | | | | | |
| Total Revenue Requirements | | \$ 215,000 | \$230,718 | \$247,570 | \$265,639 | \$285,245 | \$306,277 | \$328,838 |
| LESS: | | | | | | | | ! |
| Operations Non-Rate Revenue | | \$0 | \$0 | 80 | 20 | \$0 | \$0 | \$0 |
| Expansion Non-Rate Revenue | | \$0 | \$0 | 80 | \$0 | \$0 | \$0 | \$0 |
| | | | | | | | | |
| Net Revenue Requirements | | \$ 215,000 | \$ 230,718 | \$ 247,570 | \$ 265,639 | \$ 285,245 | \$ 306,277 | \$ 328,838 |

Table 7

Cedar Hills - Storm Drain Rate Study
Cost Allocation Percentages to Service Characteristics

| Item | Volume | Customer | Total |
|----------------------------|--------|----------|-------|
| O&M | | | |
| Salary & Wages (Full-Time) | %09 | 40% | 100% |
| Overtime | %09 | 40% | 100% |
| Salary & Wages (Part-Time) | %09 | 40% | 100% |
| Employee Benefits | %09 | 40% | 100% |
| Storm Drain Supplies | 100% | %0 | 100% |
| Dues & Subscriptions | %09 | 40% | 100% |
| Education & Training | %09 | 40% | 100% |
| Computer Expenses | %0 | 100% | 100% |
| Tools & Equipment | %09 | 40% | 100% |
| Communications & Telephone | %0 | 100% | 100% |
| Professional & Technical | %09 | 40% | 100% |
| Testing | %09 | 40% | 100% |
| Insurance | %09 | 40% | 100% |

Table 8
Cedar Hills - Storm Drain Rate Study
Fixed Assets Allocations to Service Characteristics

| | | | Percent | | Alle | Allocated Amount | |
|------------|-------------|--------|----------|-------|-------------|------------------|-------------|
| Item | Assets | Volume | Customer | Total | Volume | Customer | Total |
| Main Lines | \$3,126,368 | 100% | %0 | 100% | \$3,126,368 | 0\$ | \$3,126,368 |
| Total | \$3,126,368 | | | | \$3,126,368 | 80 | \$3,126,368 |
| Percent | | | | | 100.0% | 0.0% | 100.0% |

Table 9
Cedar Hills - Storm Drain Rate Study
Allocation of O&M Costs to Service Characteristics

| | | FVE 2013 | | | FVE 2014 | | | FVE 2015 | | | FYE 2016 | | | FVE 2017 | | | FYE 2018 | |
|----------------------------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| He H | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total |
| OKM | | | | | | - | | | | | | | | | | | | |
| Salary & Wages (Full-Time) | \$81.164 | \$54,109 | \$135,273 | \$83,907 | \$55,938 | \$139,845 | \$86.739 | \$57.826 | \$144,565 | \$89,701 | \$59,801 | \$149,502 | \$92,764 | \$61,843 | \$154,607 | \$95,923 | \$63,949 | \$159,871 |
| Overtime | \$1.551 | \$1.034 | \$2,585 | \$1,603 | \$1,069 | \$2.672 | \$1,657 | \$1.105 | \$2,762 | \$1,714 | \$1,143 | \$2,856 | \$1,772 | \$1.182 | \$2,954 | \$1,833 | \$1.222 | \$3,054 |
| Salary & Wages (Part-Time) | \$3,567 | \$2,378 | \$5,944 | \$3,687 | \$2,458 | \$6.145 | \$3.812 | \$2.541 | \$6,353 | \$3,942 | \$2,628 | \$6,570 | \$4,076 | \$2,718 | \$6.794 | \$4,215 | \$2,810 | \$7.025 |
| Employee Benefits | \$47,265 | \$31,510 | \$78.776 | \$48,863 | \$32,575 | \$81.438 | \$50.512 | \$33.675 | \$84,187 | \$52,237 | \$34,825 | \$87,062 | \$54,021 | \$36,014 | \$50,035 | \$55,860 | \$37,240 | \$93,101 |
| Storm Drain Supplies | \$3,101 | 93 | \$3,101 | \$3,206 | 80 | \$3,206 | \$3,314 | 0\$ | \$3,314 | \$3,428 | \$0 | \$3,428 | \$3,545 | 0\$ | \$3,545 | \$3,665 | 80 | \$3,665 |
| Dues & Subscriptions | \$1,241 | \$827 | \$2,068 | \$1,282 | \$855 | \$2,137 | \$1,326 | \$884 | \$2,210 | \$1,371 | \$914 | \$2,285 | \$1,418 | \$945 | \$2,363 | \$1.466 | 2777 | \$2,444 |
| Education & Training | \$620 | 7115 | \$1,034 | SG41 | \$427 | \$1,069 | \$663 | \$442 | \$1,105 | \$686 | \$457 | \$1.143 | \$209 | \$473 | \$1.182 | \$733 | \$489 | \$1,222 |
| Computer Expenses | £ | \$1.241 | \$1,241 | 0\$ | \$1.282 | \$1.282 | 0\$ | \$1,326 | \$1,326 | 20 | \$1,371 | \$1,371 | 80 | \$1,418 | \$1,418 | 0\$ | \$1.466 | \$1,466 |
| Tools & Equipment | \$1,241 | \$827 | \$2.068 | \$1.282 | \$855 | \$2,137 | \$1,326 | \$884 | \$2,210 | \$1.371 | \$914 | \$2,285 | \$1,418 | \$945 | \$2,363 | \$1,466 | 2077 | \$2,444 |
| Communications & Telephone | \$0 | \$1.551 | \$1,551 | 0\$ | \$1,603 | \$1,603 | 0\$ | \$1,657 | \$1,657 | \$0 | \$1,714 | \$1.714 | 80 | \$1.772 | \$1,772 | 80 | \$1,833 | \$1.833 |
| Professional & Technical | \$620 | 713 | \$1,034 | \$641 | \$427 | 690.18 | \$663 | \$442 | \$1.105 | \$686 | \$457 | \$1,143 | 8200 | \$473 | \$1,182 | \$733 | \$489 | \$1,222 |
| Testine | \$124 | \$83 | \$207 | \$128 | \$85 | \$214 | \$133 | 888 | \$221 | \$137 | 16\$ | \$229 | \$142 | \$65 | \$236 | \$147 | 868 | \$244 |
| Insurance | \$3,101 | \$2,068 | \$5,169 | \$3,206 | \$2,137 | \$5,344 | \$3,314 | \$2,210 | \$5.524 | \$3,428 | \$2,285 | \$5,713 | \$3,545 | \$2,363 | \$5,908 | \$3,665 | \$2,444 | \$6,109 |
| Total | \$143,595 | \$96,454 | \$240,048 | \$148,448 | \$99,714 | \$248,162 | \$153,458 | \$103,079 | \$256,537 | \$158,699 | \$106,599 | \$265,298 | \$164,119 | \$110,240 | \$274,358 | \$169,707 | \$113,993 | \$283,700 |
| Percent | %8 65° | 40.2% | 100.0% | 59.8% | 40.2% | 100.0% | 59.8% | 40.2% | 100.0% | 29.8% | 40.2% | 100.0% | 59.8% | 40.2% | 100.0% | 59.8% | 40.2% | 100.0% |

Table 10
Cedar Hills - Storm Drain Rate Study
Revenue Requirements by Service Characteristics

| FYE 2013 Customer \$96,454 \$0 \$0 \$0 \$0 \$0 |
|---|
| FFE 2013 FFE 2014 FFE 2014 |
| 2 |
| FY Volume C S143,595 S0 |

Table 11
Cedar Hills - Storm Drain Rate Study
Cost Allocations to Customer Classes

| | | FVE 2013 | | | FYE 2014 | - | | FVE 2015 | | | FYE 2016 | | | FYE 2017 | | | FYE 2018 | |
|------------------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|
| | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total | Volume | Customer | Total |
| Residential | \$122,669 | \$95,806 | \$218,474 | \$135,175 | \$99,049 | \$234,224 | \$148,713 | \$102,397 | \$251,110 | \$163,543 | \$105,900 | \$269,443 | \$179,589 | \$109,522 | \$289,111 | 196,952.46 | \$113,257 | \$310,210 |
| Commercial | \$3.068 | \$283 | \$3,352 | \$3,356 | \$291 | \$3.646 | \$3,664 | \$298 | \$3,962 | \$3,996 | \$306 | \$4,302 | \$4,352 | \$314 | \$4,666 | \$4,734.23 | \$322 | \$5,056 |
| Institutional | \$8,527 | \$364 | \$8,892 | \$9,326 | \$374 | \$9,700 | \$10,183 | \$384 | \$10,567 | \$11.106 | \$393 | \$11,500 | \$12,096 | \$403 | \$12,499 | \$13,157.75 | 713 | \$13,572 |
| Total | \$134,264 | \$96,454 | \$230,718 | \$147,857 | \$99,714 | \$247,570 | \$162,560 | \$103,079 | \$265,639 | \$178,646 | \$106,599 | \$285,245 | \$196,037 | \$110,240 | \$306,277 | \$214,844 | \$113,993 | \$328,838 |
| | | | | | | | | | | | | | | | _ | - | | |
| Allocation Basis | Imp. Area | Account | | Imp. Area | Account | | Imp. Arca | Account | | Imp. Area | Account | | Imp. Area | Account | | Imp. Area | Account | |

Table Rates 12
Cedar Hills - Storm Drain Rate Study
Existing Rates and Projected Revenue

| Base Rate (per ERU) | Existing | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Residential | \$7.25 | \$202,914 | \$207,480 | \$209,046 | \$210,786 | \$212,526 | \$214,266 |
| Commercial | \$7.25 | \$5,150 | \$5,150 | \$5,150 | \$5,150 | \$5,150 | \$5,150 |
| Institutional | \$7.25 | \$14,314 | \$14,314 | \$14,314 | \$14,314 | \$14,314 | |
| | | | | | | | |
| Volume Rate | Fxisting | FVE 2013 | FVE 2014 | FVE 2015 | FVE 2016 | FVE 2017 | FVE 2018 |

| Volume Rate | Existing | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|---------------|----------|----------|----------|----------|----------|----------|----------|
| Residential | ۱ | - | - | - | - \$ | - \$ | - |
| Commercial | ٠ ج | - | - \$ | - | - \$ | - \$ | \$ |
| Institutional | - \$ | ı €9 | - \$ | - \$ | - \$ | \$ | \$ |
| | | | | | | | |

| Revenue - Existing Rates | \$225,379 | \$226,945 | \$228,511 | \$230,251 | \$231,991 | \$233,731 |
|--------------------------|-----------|------------|------------|------------|------------|------------|
| Revenue Required | \$230,718 | \$247,570 | \$265,639 | \$285,245 | \$306,277 | \$328,838 |
| Surplus/(Shortfall) | (\$5,339) | (\$20,625) | (\$37,128) | (\$54,994) | (\$74,286) | (\$95,107) |

Table Rates 13
Cedar Hills - Storm Drain Rate Study
Calculated Monthly Rates

| Base Rate | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|-----------------------|----------|----------|----------|----------|----------|----------|
| Residential | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| Commercial | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| Institutional | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| | | | | | | |
| Volume Rate (\$/acre) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
| Residential | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |
| Commercial | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |
| Institutional | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |

Table Rates 14
Cedar Hills - Storm Drain Rate Study
Recommended Rates

| Utility Fees (per month) | FYE 2013 | FYE 2014 | FYE 2015 | FYE 2016 | FYE 2017 | FYE 2018 |
|----------------------------|----------|----------|----------|----------|----------|----------|
| Residential | \$7.69 | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Commercial & Institutional | | | | | | |
| 0.3 acres or less | 69.7\$ | \$8.18 | \$8.71 | \$9.27 | \$9.86 | \$10.50 |
| Larger lots | | | | | | |
| Base Rate | \$3.37 | \$3.46 | \$3.55 | \$3.64 | \$3.74 | \$3.83 |
| \$\acre based on lot size | \$14.40 | \$15.74 | \$17.19 | \$18.75 | \$20.42 | \$22.21 |

| TO: | Mayor Richardson & City Council |
|-------|-----------------------------------|
| FROM: | David Bunker, Acting City Manager |
| DATE: | 5/30/2012 |

City Council Memorandum

| SUBJECT: | 2013 Budget (July 1, 2012-June 30, 2013) |
|-----------------------------|---|
| APPLICANT PRESENTATION: | |
| STAFF PRESENTATION: | Chandler Goodwin, Finance Analyst |
| | |
| BACKGROUND AND FINDING | SS: |
| Presentation of the prop | osed Fiscal Year 2013 Budget |
| PREVIOUS LEGISLATIVE ACTION | ON: |
| | |
| FISCAL IMPACT: | |
| | |
| SUPPORTING DOCUMENTS: | |
| Proposed Fiscal Year 2013 | 3 Budget |
| RECOMMENDATION: | |
| To adopt the resolution. | |
| MOTION: | |
| | on, a resolution adopting the 2012-2013 Fiscal Year |
| Budget for the City of Ce | · · · |

| RESOLUTION NO. | |
|----------------|--|
| | |

A RESOLUTION ADOPTING THE 2012-2013 FISCAL YEAR BUDGET FOR THE CITY OF CEDAR HILLS, UTAH.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CEDAR HILLS, UTAH:

Pursuant to §10-6-118, Utah Code, the 2012-2013 Fiscal Year Budget for the General Fund, Capital Projects Fund, Sewer/Water/Storm Drain Fund, Motor Pool Fund, and Community Recreation Fund for the City of Cedar Hills, Utah, is hereby adopted. A copy of said budget is attached hereto (Attachment A), and by this reference made part of this Resolution.

PASSED THIS 5th DAY OF JUNE, 2012.

| | APPROVED: |
|--|------------------------|
| ATTEST: | Eric Richardson, Mayor |
| Gretchen F. Gordon, Deputy City Recorder | |

GENERAL FUND REVENUES

| TAX REVE | NUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------|
| 10-31-100 | Property Tax | \$675,440 | \$652,210 | \$630,000 | \$650,000 | \$20,000 |
| 10-31-150 | Motor Vehicle Tax | \$117,807 | \$115,089 | \$120,000 | \$115,000 | (\$5,000) |
| 10-31-200 | Delinquent Tax | \$75,289 | \$62,289 | \$75,000 | \$70,000 | (\$5,000) |
| 10-31-250 | Penalty & Interest | \$3,897 | \$3,658 | \$4,000 | \$4,000 | \$0 |
| 10-31-275 | Fees in Lieu of Taxes | \$3,691 | \$2,113 | \$2,500 | \$5,000 | \$2,500 |
| 10-31-300 | Sales & Use Tax | \$902,522 | \$954,063 | \$1,000,000 | \$1,050,000 | \$50,000 |
| 10-31-350 | CARE Tax | \$30,527 | \$33,308 | \$35,000 | \$35,000 | \$ 0 |
| 10-31-400 | Franchise Tax | \$334,355 | \$358,995 | \$360,000 | \$365,000 | \$5,000 |
| 10-31-500 | Telecom Tax | \$112,395 | \$112,640 | \$125,000 | \$120,000 | (\$5,000) |
| | | \$2,255,922 | \$2,294,365 | \$2,351,500 | \$2,414,000 | \$62,500 |
| | | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| LICENSES | & PERMITS | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| 10-32-190 | Business License | \$21,060 | \$21,840 | \$22,000 | \$22,000 | \$0 |
| 10-32-200 | Building Permits | \$59,633 | \$29,330 | \$50,000 | \$80,000 | \$30,000 |
| 10-32-210 | Plan Check Fees | \$24,736 | \$16,224 | \$20,000 | \$35,000 | \$15,000 |
| 10-32-260 | Miscellaneous Inspection Fees | \$3,141 | \$2,852 | \$3,000 | \$5,000 | \$2,000 |
| | | \$108,570 | \$70,245 | \$95,000 | \$142,000 | \$47,000 |
| | | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| INTERGOV | ERNMENTAL REVENUE | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| 10-33-400 | LPPSD Rent | \$16,200 | \$16,200 | \$36,200 | \$35,000 | (\$1,200) |
| 10-33-500 | Class C Roads Fund | \$241,114 | \$257,351 | \$260,000 | \$260,000 | \$0 |
| 10-33-600 | State Liquor Tax Allotment | \$5,568 | \$5,733 | \$5,950 | \$5,000 | (\$950) |
| .00000 | | \$262,882 | \$279,284 | \$302,150 | \$300,000 | (\$2,150) |
| | | | . , | . , | | (1-// |
| CHARGE | FOR CERVICES | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANCE |
| CHARGES | FOR SERVICES | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| 10-34-110 | Garbage Fees | \$356,546 | \$356,662 | \$355,000 | \$360,000 | \$5,000 |
| 10-34-120 | Recycling Fees | \$45,695 | \$48,050 | \$50,000 | \$50,000 | \$0 |
| 10-34-300 | Application & Processing Fees | \$200 | \$0 | \$0 | \$0 | \$0 |
| 10-34-350 | Zoning Violation Fees | \$4,955 | \$5,174 | \$0 | \$0 | \$0 |
| 10-34-360 | Weed Abatement Fees | \$0 | \$606 | \$3,000 | \$3,000 | \$0 |
| 10-34-450 | Paramedic Fees | \$0 | \$57,456 | \$175,000 | \$180,000 | \$5,000 |
| | | \$407,395 | \$467,949 | \$583,000 | \$593,000 | \$10,000 |
| | | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| RECREATION | ON & CULTURE REVENUE | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| 10-35-100 | Festival Income | \$11,466 | \$11,160 | \$25,000 | \$15,000 | (\$10,000) |
| 10-35-110 | Recreation Programs | \$33,923 | \$56,372 | \$60,000 | \$100,000 | \$40,000 |
| 10-35-120 | Other Recreation Revenue | \$50 | \$851 | \$0 | \$0 | \$0 |
| 10 00 120 | Office Recipciation Revenue | \$45,439 | \$68,383 | \$85,000 | \$115,000 | \$30,000 |
| | | | | | | |
| MISCELLA | NEOUS REVENUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-36-100 | Interest Income | \$7,887 | \$4,118 | \$10,000 | \$5,000 | (\$5,000) |
| 10-34-200 | Penalty Fees | \$5,275 | \$3,261 | \$2,000 | \$1,000 | (\$1,000) |
| 10-34-200 | Use of Class C Roads Fund | \$0,273 \$0 | \$0 | \$131,350 | \$140,000 | \$8,650 |
| 10-36-802 | Use of Fund Balance | \$O \$O | \$0 \$0 | \$20,000 | \$0,000 | (\$20,000) |
| 10-36-900 | Other Income | \$30,181 | \$38,552 | \$20,000 | \$25,000 | \$5,000 |
| 10-30-700 | OTHER INCOME | \$43,343 | \$45,931 | \$183,350 | \$171,000 | (\$12,350) |
| 004110 | 07110 | 40 100 111 | 00.001.1 | 00 100 000 | 40 707 007 | 0107.007 |
| GRAND TO | OIAL3 | \$3,123,552 | \$3,226,157 | \$3,600,000 | \$3,735,000 | \$135,000 |

GENERAL FUND EXPENDITURES

| GENERAL | GOVERNMENT EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|---|---|--|---|---|---|--|
| 10-40-200 | Materials & Supplies | \$8,071 | \$11,662 | \$12,000 | \$12,000 | \$0 |
| 0-40-210 | Dues & Subscriptions | \$0 | \$0 | \$10,000 | \$10,000 | \$0 |
| 0-40-211 | Education & Training | \$0 | \$0 | \$3,000 | \$3,500 | \$500 |
| 0-40-220 | Newsletter/Utility Billing | \$19,706 | \$19,606 | \$22,000 | \$22,000 | \$0 |
| 0-40-221 | Legal Advertising | \$2,386 | \$1,913 | \$4,000 | \$4,000 | \$0 |
| 0-40-240 | Computer/IT Expenses | \$13,840 | \$22,406 | \$30,000 | \$22,000 | (\$8,000) |
| 0-40-250 | Repairs & Maintenance (PSB) | \$10,276 | \$11,725 | \$12,500 | \$17,500 | \$5,000 |
| 0-40-260 | Office Equipment | \$8,590 | \$6,977 | \$20,000 | \$10,000 | (\$10,000) |
| 0-40-280 | Utilities | \$10,473 | \$18,488 | \$15,000 | \$15,000 | \$0 |
| 0-40-281 | Postage | \$2,174 | \$2,956 | \$2,500 | \$2,500 | \$0 |
| 0-40-290 | Communications/Telephone | \$5,418 | \$8,602 | \$18,000 | \$15,000 | (\$3,000) |
| 0-40-305 | Legal Services | \$69,472 | \$52,517 | \$115,000 | \$75,000 | (\$40,000) |
| 0-40-315 | Auditing Services | \$31,000 | \$19,500 | \$20,500 | \$24,000 | \$3,500 |
| 0-40-330 | Professional/Technical | \$29,117 | \$60,473 | \$25,000 | \$25,000 | \$0 |
| 0-40-331 | Decisions Survey | \$0 | \$0 \$0 | \$0 | \$10,000 \$3,000 | \$10,000 |
| 0-40-350 | Other Events | \$0 | \$0 | \$0 | | \$3,000 |
| 0-40-510 | Insurance | \$16,653 | \$17,230 | \$25,000 | \$35,000 | \$10,000 |
| 10-40-975 | Bad Debt | \$18,310 | \$5,063 | \$2,500 | \$2,000 \$307,500 | (\$500) |
| | | \$245,486 | \$259,117 | \$337,000 | \$307,500 | (\$29,500) |
| MAYOR/C | COUNCIL EXPENDITURES | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| | | ACTUAL | ACTUAL | BUDGET | BUDGET | |
| 0-41-110 | Salary & Wages (FT) | \$49,200 | \$49,200 | \$49,200 | \$49,200 | \$0 |
| 10-41-115 | Planning Commission | \$2,030 | \$3,050 | \$4,200 | \$3,900 | (\$300) |
| 10-41-150 | Employee Benefits | \$3,972 | \$4,264 | \$4,850 | \$5,000 | \$150 |
| 10-41-200 | Materials & Supplies | \$1,482 | \$60 | \$1,000 | \$1,000 | \$0 |
| 10-41-211 | Education & Training | \$2,651 | \$5,219 | \$5,500 | \$5,500 | \$0 |
| 10-41-290 | Communications/Telephone | \$5,212 \$64,547 | \$5,400 \$67,192 | \$5,400 \$ 70,150 | \$5,400 \$70,000 | \$0 (\$150) |
| | | TV 0010 | EV 0011 | EV 0010 | EV 2010 | |
| ADMINIST | RATIVE SERVICES EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 0-44-110 | Salary & Wages (FT) | \$277,881 | \$146,909 | \$211,300 | \$194,000 | (\$17,300) |
| 0-44-111 | Overtime | \$410 | \$499 | \$700 | \$2,000 | \$1,300 |
| 0-44-120 | Salary & Wages (PT) | \$14,291 | \$3,506 | \$26,450 | \$19,250 | (\$7,200) |
| 0-44-150 | Employee Benefits | \$118,253 | \$65,182 | \$108,350 | \$85,750 | (\$22,600) |
| 0-44-200 | Materials & Supplies | \$2,900 | \$318 | \$1,000 | \$1,000 | \$0 |
| 0-44-210 | Dues & Subscriptions | \$2,142 | \$1,512 | \$1,500 | \$2,000 | \$500 |
| 10-44-211 | Education & Training | \$6,029 | \$1,743 | \$4,000 | \$5,000 | \$1,000 |
| 10-44-290 | Communications/Telephone | \$1,217 \$423,123 | \$1,166 \$220,836 | \$1,500 \$354,800 | \$1,500 \$310,500 | \$0 (\$44,300) |
| | | Q420,120 | | 400-1,000 | | (\$44,000) |
| | RATIVE SERVICES - RECORDER | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| ADMINIST | | | | | | 100 450 |
| | Salary & Wages (FT) | \$0 | \$42 309 | \$45.450 | \$37.000 | (%× 450) |
| 10-45-110 | , , , | \$0 \$0 | \$42,309 \$45 | \$45,450 \$750 | \$37,000 \$500 | (\$8,450) (\$250) |
| 10-45-110 10-45-111 | Overtime | \$0 | \$45 | \$750 | \$500 | (\$250) |
| 10-45-110 10-45-111 10-45-120 | Overtime Salary & Wages (PT) | \$0 \$0 | \$45 \$14,994 | \$750 \$4,350 | \$500 \$0 | (\$250) (\$4,350) |
| 10-45-110 10-45-111 10-45-120 10-45-150 | Overtime Salary & Wages (PT) Employee Benefits | \$0 \$0 \$0 | \$45 \$14,994 \$24,404 | \$750 \$4,350 \$24,350 | \$500 \$0 \$20,500 | (\$250) (\$4,350) (\$3,850) |
| 10-45-110 10-45-111 10-45-120 10-45-150 10-45-200 | Overtime Salary & Wages (PT) Employee Benefits Materials & Supplies | \$0 \$0 \$0 \$0 | \$45 \$14,994 \$24,404 \$1,011 | \$750 \$4,350 \$24,350 \$1,000 | \$500 \$0 \$20,500 \$1,500 | (\$250) (\$4,350) (\$3,850) \$500 |
| 10-45-110 10-45-111 10-45-120 10-45-150 10-45-200 10-45-210 | Overtime Salary & Wages (PT) Employee Benefits Materials & Supplies Dues & Subscriptions | \$0 \$0 \$0 \$0 \$0 | \$45 \$14,994 \$24,404 \$1,011 \$567 | \$750 \$4,350 \$24,350 \$1,000 \$700 | \$500 \$0 \$20,500 \$1,500 \$400 | (\$250) (\$4,350) (\$3,850) \$500 (\$300) |
| 10-45-110 10-45-111 10-45-120 10-45-150 10-45-200 10-45-210 10-45-211 | Overtime Salary & Wages (PT) Employee Benefits Materials & Supplies Dues & Subscriptions Education & Training | \$0 \$0 \$0 \$0 \$0 \$0 | \$45 \$14,994 \$24,404 \$1,011 \$567 \$1,772 | \$750 \$4,350 \$24,350 \$1,000 \$700 \$3,000 | \$500 \$0 \$20,500 \$1,500 \$400 \$2,500 | (\$250) (\$4,350) (\$3,850) \$500 (\$300) (\$500) |
| 10-45-110 10-45-111 10-45-120 10-45-150 10-45-200 10-45-210 | Overtime Salary & Wages (PT) Employee Benefits Materials & Supplies Dues & Subscriptions Education & Training | \$0 \$0 \$0 \$0 \$0 | \$45 \$14,994 \$24,404 \$1,011 \$567 | \$750 \$4,350 \$24,350 \$1,000 \$700 | \$500 \$0 \$20,500 \$1,500 \$400 | (\$250) (\$4,350) (\$3,850) \$500 (\$300) |

| 10-45-350 10-45-400 | Other Events Election Expenses | \$0 \$8,686 \$14,412 | \$3,125 \$0 \$94,464 | \$4,000 \$10,000 \$100,400 | \$0 \$0 \$69,200 | (\$4,000) (\$10,000) (\$31,200) |
|---|---|---|--|--|---|---|
| FINANCE | DEPARTMENT EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-50-110 10-50-111 10-50-120 10-50-150 10-50-200 10-50-210 10-50-211 | | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$98,653 \$0 \$0 \$49,252 \$1,007 \$500 \$2,186 \$151,598 | \$93,900 \$1,000 \$0 \$41,450 \$1,000 \$650 \$3,000 \$141,000 | \$86,500 \$750 \$0 \$45,000 \$1,500 \$500 \$2,500 \$136,750 | (\$7,400) (\$250) \$0 \$3,550 \$500 (\$150) (\$500) |
| PUBLIC SA | FETY EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-55-300 10-55-400 10-55-450 10-55-500 10-55-600 10-55-975 | Fire Services Police Services Dispatch Fees Crossing Guard Expenses Animal Control Bad Debt - Paramedic Fee | \$198,699 \$357,238 \$0 \$14,330 \$4,965 \$0 \$575,232 | \$385,440 \$369,728 \$0 \$14,245 \$5,742 \$300 \$775,455 | \$490,000 \$350,000 \$32,500 \$16,250 \$5,000 \$0 \$893,750 | \$620,000 \$362,500 \$35,000 \$16,500 \$5,000 \$1,000 | \$130,000 \$12,500 \$2,500 \$250 \$0 \$1,000 \$146,250 |
| BUILDING | & ZONING EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-60-110 10-60-111 10-60-120 10-60-150 10-60-200 10-60-210 10-60-211 10-60-215 10-60-265 10-60-290 | Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Materials & Supplies Dues & Subscriptions Education & Training Contract Labor Tools & Equipment Communications/Telephone | \$83,644 \$0 \$0 \$38,733 \$163 \$1,076 \$1,175 \$0 \$91 \$550 \$125,433 | \$72,030 \$0 \$0 \$32,450 \$68 \$565 \$1,177 \$0 \$100 \$552 \$106,941 | \$46,100 \$600 \$0 \$22,550 \$1,000 \$1,000 \$2,000 \$0 \$500 \$750 | \$17,500 \$0 \$19,500 \$13,000 \$1,000 \$1,000 \$2,000 \$60,000 \$500 \$750 \$115,250 | (\$28,600) (\$600) \$19,500 (\$9,550) \$0 \$0 \$0 \$60,000 \$0 \$0 \$40,750 |
| PUBLIC W | ORKS EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-61-110 10-61-111 10-61-120 10-61-150 10-61-200 10-61-211 10-61-250 10-61-265 10-61-280 10-61-290 10-61-310 | Overtime Salary & Wages (PT) Employee Benefits | \$194,954 \$393 \$2,477 \$103,354 \$2,845 \$215 \$1,721 \$7,636 \$4,476 \$0 \$2,128 \$2,844 \$323,043 | \$110,558 \$604 \$2,182 \$64,482 \$8,213 \$318 \$1,312 \$9,461 \$2,748 \$0 \$1,360 \$446 \$201,684 | \$124,650 \$2,700 \$5,750 \$74,750 \$8,000 \$500 \$2,000 \$7,000 \$9,500 \$5,000 \$2,000 \$2,000 \$2,000 | \$106,000 \$2,750 \$6,000 \$71,500 \$5,000 \$2,000 \$10,000 \$7,500 \$5,000 \$2,000 \$2,000 | (\$18,650) \$50 \$250 (\$3,250) (\$3,000) \$0 \$0 \$3,000 (\$2,000) \$0 \$0 (\$23,600) |
| STREETS EX | KPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 10-62-410 | Street Light Operation | \$50,601 | \$34,466 | \$40,000 | \$30,000 | (\$10,000) |

| GRAND TO | SIATO | \$3,740,617 | \$3,173,029 | \$3,600,000 | \$3,735,000 | \$135,000 |
|------------------------|--|----------------------------|-------------------------|---------------------|-----------------------|----------------------|
| 10-69-912 | Transfer to CARETax Reserves | \$1,086,189 | \$0 \$166,432 | \$0 \$286,400 | \$15,000 \$304,850 | \$15,000 \$18,450 |
| 10-69-913 | Transfer to Community Rec Fund | \$0 | \$0 | \$0 | \$65,000 | \$65,000 |
| 10-69-911 | Transfer to Motor Pool Fund | \$60,121 | \$71,255 | \$132,150 | \$104,000 | (\$28.150) |
| 0-69-910 | Transfer to Capital Projects Fund | \$1,026,067 | \$95,177 | \$154,250 | \$120,850 | (\$33,400) |
| OTHER USE | ES OF FUNDS | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| | | \$143,880 | Ş104,383 | \$250,900 | \$275,450 | \$24,550 |
| 0-65-605 | Youth City Council | \$2,358 | \$2,620 \$164,583 | | | \$500 \$24.550 |
| | | \$10,278 \$2,358 | \$891 \$2,620 | \$2,000 | \$3,000 | \$0 \$500 |
| 10-65-600 10-65-601 | Family Festival Celebration Other Events | \$39,251 \$10,278 | \$43,671 | \$50,000 \$2,000 | \$2,000 | \$0 \$0 |
| 0-65-500 | Library Expenses | \$14,000 | \$13,600 | \$14,000 | \$14,000 \$50,000 | \$O |
| 0-65-401 | Recreation Equipment | \$0 | \$0 | \$20,000 | \$0 \$14,000 | (\$20,000) |
| 0-65-400 | Recreation Programs | \$19,181 | \$41,277 | \$50,000 | \$85,000 | \$35,000 |
| 0-65-300 | Recreation Expenses | \$294 | \$427 | \$0 | \$0 | \$0 |
| 0-65-290 | Communications/Telephone | \$0 | \$0 | \$1,000 | \$1,000 | \$0 |
| 10-65-211 | Education & Training | \$1,490 | \$0 | \$1,500 | \$1,500 | \$0 |
| 10-65-210 | Dues & Subscriptions | \$50 | \$50 | \$250 | \$200 | (\$50) |
| 10-65-200 | Materials & Supplies | \$0 | \$739 | \$1,000 | \$1,000 | \$0 |
| 10-65-150 | Employee Benefits | \$13,726 | \$15,942 | \$34,450 | \$43,750 | \$9,300 |
| 0-65-120 | Salary & Wages (PT) | \$5,950 | \$7,466 | \$17,100 | \$0 | (\$17,100) |
| 0-65-111 | Overtime | \$72 | \$437 | \$550 | \$2,000 | \$1,450 |
| 0-65-110 | Salary & Wages (FT) | \$37,229 | \$37,461 | \$56,550 | \$72,000 | \$15,450 |
| COMMUN | ITY SERVICES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| | | | | | | |
| | | \$118,870 | \$126,501 | \$130,000 | \$140,000 | \$10,000 |
| 10-64-240 | Park Supplies & Maintenance | \$118,870 | \$126,501 | \$130,000 | \$140,000 | \$10,000 |
| PARKS EXF | PENDITURES | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| | | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| | | \$339,226 | \$336,205 | \$324,250 | \$337,250 | \$13,000 |
| 10-63-975 | Bad Debt | \$4,744 | \$2,113 | \$4,250 | \$2,250 | (\$2,000) |
| 0-63-400 | Recycling | \$49,028 | \$49,679 | \$45,000 | \$50,000 | \$5,000 |
| 10-63-300 | Solid Waste Services | ACTUAL \$285,454 | ACTUAL \$284,413 | \$275,000 | \$285,000 | \$10,000 |
| SOLID WAS | STE EXPENDITURES | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| | | \$281,177 | \$502,022 | \$393,000 | \$408,000 | \$15,000 |
| 10-62-470 | Sidewalk Maintenance | \$20,056 | \$41,201 | \$45,000 | \$50,000 | \$5,000 |
| 10-62-460 | Street Sweeping | \$7,540 | \$4,861 | \$10,000 | \$10,000 | \$0 |
| 0-62-450 | Snow Removal | \$42,314 | \$29,011 | \$25,000 | \$25,000 | \$0 |
| 0-62-440 | Streets Expense | \$137,568 | \$375,706 | \$250,000 | \$250,000 | \$0 |
| 0-62-430 | Weed Control | \$2,467 | \$3,424 | \$3,000 | \$3,000 | \$0 |
| 0-62-420 | Signs | \$20,632 | \$13,352 | \$20,000 | \$20,000 | \$0 |
| 0-62-415 | Street Light Maintenance | \$0 | \$0 | \$0 | \$20,000 | \$20,000 |

CAPITAL PROJECTS FUND REVENUES

| | | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|-----------|-----------------------------------|-------------------|-------------------|-------------------|------------|
| 40-30-100 | Impact Fees - Park Development | \$11,700 | \$11,700 | \$23,400 | \$11,700 |
| 40-30-110 | Impact Fees - Park Land | \$43,780 | \$43,780 | \$87,575 | \$43,795 |
| 40-30-120 | Impact Fees - Recreation | \$16,400 | \$16,400 | \$32,800 | \$16,400 |
| 40-30-130 | Impact Fees - Public Safety | \$5,370 | \$6,360 | \$11,725 | \$5,365 |
| 40-30-140 | Impact Fees - Streets | \$13,140 | \$52,560 | \$65,700 | \$13,140 |
| 40-30-145 | Commercial Street Improvement Fee | \$0 | \$21,500 | \$21,500 | \$0 |
| 40-30-600 | Interest Income | \$30,726 | \$15,000 | \$15,000 | \$0 |
| 40-30-700 | Grant Income | \$5,609 | \$5,000 | \$5,000 | \$0 |
| 40-30-801 | Transfers in from General Fund | \$95,177 | \$154,250 | \$120,850 | (\$33,400) |
| 40-30-802 | Transfers in from W&S Fund | \$76,681 | \$77,900 | \$75,850 | (\$2,050) |
| | | \$298,583 | \$404,450 | \$459,400 | \$54,950 |

CAPITAL PROJECTS FUND EXPENDITURES

| STREET PROJECTS | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|--|--|--|--|--|
| 40-78-731 Sidewalk Projects 40-78-778 Speed Tables 40-78-779 Street Lights 40-78-781 Harvey Blvd Widening 40-78-783 GIS - Streets | \$4,010 \$4,200 \$10,286 \$0 \$11,274 \$29,770 | \$0 \$0 \$25,000 \$500,000 \$16,350 \$541,350 | \$20,000 \$0 \$5,000 \$500,000 \$0 \$525,000 | \$20,000 \$0 (\$20,000) \$0 (\$16,350) |
| PARK PROJECTS | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 40-80-802 Deerfield Park - Land Purchase 40-80-803 Deerfield Park - Development 40-80-816 Mesquite Soccer Park Restroom/Storage 40-80-819 Sage Vista Park 40-80-820 Heritage Park - Basketball Court 40-80-821 Splash Pad | \$0 \$0 \$0 \$20,000 \$0 \$0 \$20,000 | \$972,000 \$1,500,000 \$0 \$0 \$40,000 \$350,000 \$2,862,000 | \$972,000 \$1,500,000 \$25,000 \$0 \$0 \$0 \$2,497,000 | \$0 \$0 \$25,000 \$0 (\$40,000) (\$350,000) |
| MISCELLANEOUS PROJECTS | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 40-95-190 Orchard Commercial Development 40-95-200 Community Recreation Center - Phase II 40-95-201 Community Recreation Center - Phase III 40-95-230 Hillside Remediation Project 40-77-720 Public Works Building Basement 40-95-220 Civic Center | \$7,345 \$0 \$0 \$0 \$35,047 \$0 \$42,392 | \$0 \$0 \$0 \$75,000 \$0 \$550,000 \$625,000 | \$0 \$350,000 \$500,000 \$0 \$0 \$0 \$850,000 | \$0 \$350,000 \$500,000 (\$75,000) \$0 (\$550,000) \$225,000 |
| DEBT SERVICE | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 40-98-100 1999 Lease Revenue Bond - PSB 40-98-105 Interest Expense 40-98-200 2006 Excise Revenue Bond - PWB 40-98-795 Trustee Fees | \$40,000 \$105,147 \$60,000 \$4,020 \$209,167 | \$400,000 \$101,450 \$65,000 \$4,020 \$570,470 | \$0 \$86,700 \$65,000 \$1,500 \$153,200 | (\$400,000) (\$14,750) \$0 (\$2,520) (\$417,270) |
| OTHER USES | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 40-96-115 Transfer to the Community Recreation Fund | \$371,726 \$371,726 | \$2,500,000 \$2,500,000 | \$0 \$0 | (\$2,500,000) (\$2,500,000) |
| GRAND TOTALS | S 673,055 | \$ 7.098.820 | \$ 4.025,200 | \$ (3,073,620 |

WATER, SEWER, & STORM DRAIN REVENUES

| WATER REVENUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|--|--------------------|-------------------|-------------------|-------------------|-------------|
| 51-37-110 Water Fees - Reside | T 1007 100 | | \$460,000 | \$471,500 | \$11,500 |
| 51-37-111 Water Fees - Ameri | T | \$30,436 | \$18,000 | \$18,000 | \$0 |
| 51-37-112 Water Fees - Contro | · T | \$1,500 | \$2,100 | \$3,600 | \$1,500 |
| 51-37-113 PI Fees - Usage | \$352,141 | • | \$440,000 | \$443,250 | \$3,250 |
| 51-37-114 PI Fees - Base Rate | \$496,146 | | \$495,000 | \$498,750 | \$3,750 |
| 51-37-115 CUP | \$143,995 | • | \$147,500 | \$153,000 | \$5,500 |
| 51-37-160 Water Lateral Inspe | · | \$825 | \$1,050 | \$1,800 | \$750 |
| 51-37-190 Water Meters | \$5,250 | \$650 | \$7,250 | \$13,000 | \$5,750 |
| 51-37-350 Water Impact Fees | \$35,207 | \$21,670 | \$25,800 | \$45,000 | \$19,200 |
| | \$1,487,663 | 3 \$1,536,131 | \$1,596,700 | \$1,647,900 | \$51,200 |
| STORM DRAIN REVENUE | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| STORM DRAIN REVENUE | ACTUAL | ACTUAL | BUDGET | BUDGET | CHANGE |
| 51-35-110 Storm Drain - Reside | ents \$166,319 | \$184,535 | \$215,000 | \$230,500 | \$15,500 |
| | \$166,319 | \$184,535 | \$215,000 | \$230,500 | \$15,500 |
| SEWER REVENUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 51-38-110 Sewer Fees - Reside | ents \$687,287 | \$872,247 | \$880,000 | \$935,500 | \$55,500 |
| 51-38-160 Sewer Lateral Inspe | · · | \$825 | \$1,050 | \$1,800 | \$750 |
| 51-38-660 Sewer Impact Fees | • | \$920 | \$850 | \$1,300 | \$450 |
| 51-38-670 Sewer Impact Fees | • | \$0 | \$3,000 | \$5,850 | \$2,850 |
| | \$693,316 | | \$884,900 | \$944,450 | \$59,550 |
| MISCELLANEOUS REVENUE | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| MINOCELLA MEDICAL MEDI | ACTUAL | ACTUAL | BUDGET | BUDGET | |
| 51-39-200 Penalty Fees | \$55,062 | \$50,406 | \$55,000 | \$50,000 | (\$5,000) |
| 51-39-410 Interest Income | \$10,764 | \$6,963 | \$5,000 | \$5,000 | \$ O |
| 51-39-600 Utility Setup Fees | \$14,574 | | \$10,000 | \$10,000 | \$ O |
| 31-37-600 Utility Setup rees | | 400 | 000 04 | #7F0 | 101 OFOL |
| 51-39-900 Other Income | \$7,191 | \$90 | \$2,000 | \$750 | (\$1,250) |
| | ne <u>\$22,800</u> | \$0 | \$11,400 | \$11,400 | \$0 |
| 51-39-900 Other Income | | \$0 | • 99 | | 11. |

| WAIEKEXI | PENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|---|--|--|--|--|--|--|
| 1-73-110 | Salary & Wages (FT) | \$196,224 | \$191,479 | \$216,400 | \$208,750 | (\$7,650) |
| 1-73-111 | Overtime | \$356 | \$785 | \$3,350 | \$3,750 | \$400 |
| 1-73-120 | Salary & Wages (PT) | \$5,941 | \$6,661 | \$10,150 | \$6,000 | (\$4,150) |
| I-73-1 <i>5</i> 0 | Employee Benefits | \$111,572 | \$106,428 | \$124,800 | \$122,500 | (\$2,300) |
| -73-200 | Water Supplies | \$2,465 | \$2,274 | \$3,500 | \$3,500 | \$0 |
| -73-210 | Dues & Subscriptions | \$1,625 | \$1,555 | \$2,000 | \$2,000 | \$0 |
| -73-211 | Education & Training | \$1,203 | \$2,566 | \$3,500 | \$3,500 | \$0 |
| -73-240 | Computer Expenses | \$2,037 | \$3,000 | \$3,000 | \$3,000 | \$0 |
| | | | \$1,000 | | \$1,000 | \$0 |
| -73-260 | Office Equipment | \$0 #001 | | \$1,000 | 1 ' | |
| -73-265 | Tools & Equipment | \$981 | \$1,787 | \$4,500 | \$12,500 | \$8,000 |
| -73-280 | Utilities | \$260,010 | \$262,191 | \$270,000 | \$285,000 | \$15,000 |
| 1-73-282 | Blue Stakes | \$824 | \$1,053 | .500 \$1 | \$1,000 | (\$500) |
| -73-290 | Communications/Telephone | \$1,593 | \$1,672 | \$2,000 | \$2,000 | \$0 |
| I <i>-</i> 73-310 | Engineering Services | (\$50) | \$0 | \$1,000 | \$1,000 | \$0 |
| -73-330 | Professional/Technical | \$5,158 | \$10,817 | \$26,000 | \$8,000 | (\$18,000) |
| -73-360 | Meter Installation & Maintenance | \$6,084 | \$17,810 | \$30,000 | \$35,000 | \$5,000 |
| -73-470 | Water Purchases - AF | 595.75 | \$0 | \$0 | \$0 | \$0 |
| 1-73-471 | Water Purchases - PG | \$14,450 | \$17,683 | \$17,700 | \$18,000 | \$300 |
| -73-472 | Water Testing | \$3,551 | \$5,572 | \$6,500 | \$6,500 | \$0 |
| | 9 | | , . | \$12,500 | \$15,000 | \$2,500 |
| -73-510 | Insurance | \$14,021 | \$10,687 | | | |
| 1-73-751 | Water Construction Projects/Repair | \$32,308 | \$8,394 | \$30,000 | \$40,000 | \$10,000 |
| -73-800 | Supplementary Water | \$114,034 | \$119,403 | \$120,000 | \$120,000 | \$0 |
| 1-73-801 | Pl Expenses | \$33,230 | \$11,611 | \$15,000 | \$15,000 | \$0 |
| -73-900 | Credit Card Fees | \$8,813 | \$11,808 | \$12,000 | \$13,000 | \$1,000 |
| 1-73-950 | Trustee Fees | \$3,100 | \$4,700 | \$4,700 | \$4,700 | \$0 |
| 1-73-955 | Bond Interest | \$348,295 | \$338,216 | \$328,350 | \$317,550 | (\$10,800) |
| 1-73-960 | Depreciation - Water | \$384,509 | \$402,558 | \$408,000 | \$412,000 | \$4,000 |
| 1-73-965 | Amortization - Bond Costs | \$7,429 | \$7,429 | \$7,450 | \$7,450 | \$0 |
| 1-73-975 | Bad Debt | \$17,524 | \$36,860 | \$18,500 | \$8,250 | (\$10,250) |
| -73-773 | idd Debi | \$1,577,882 | \$1,585,999 | \$1,683,400 | \$1,675,950 | (\$7,450) |
| TORM DR | AIN EXPENDITURES | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| | | ACTUAL | ACTUAL | BUDGET | BUDGET | |
| 1-72-110 | Salary & Wages (FT) | \$0 | \$124,965 | \$130,850 | \$147,000 | \$16,150 |
| 1-72-111 | | \$0 | \$529 | \$2,500 | \$2,750 | \$250 |
| | Overtime | | | | 27/ | |
| 1-72-120 | Salary & Wages (PT) | \$0 | \$2,182 | \$5,750 | \$6,000 | \$250 |
| | | \$0 \$0 | | | \$6,000 \$87,250 | \$250 \$11,050 |
| 1-72-120 1-72-150 | Salary & Wages (PT) | \$0 | \$2,182 | \$5,750 | \$87,250 | \$11,050 |
| 1-72-120 1-72-150 1-72-200 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies | \$0 \$0 \$0 | \$2,182 \$62,663 \$971 | \$5,750 \$76,200 \$3,000 | \$87,250 \$3,000 | \$11,050 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions | \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 | \$5,750 \$76,200 \$3,000 \$2,000 | \$87,250 \$3,000 \$2,000 | \$11,050 \$0 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 1-72-211 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training | \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 | \$87,250 \$3,000 \$2,000 \$1,000 | \$11,050 \$0 \$0 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses | \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 | \$11,050 \$0 \$0 \$0 \$0 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 1-72-211 1-72-240 1-72-265 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment | \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 1-72-211 1-72-240 1-72-265 1-72-290 1-72-330 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$200 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$200 \$6,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$0 \$1,000 (\$40,000) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$4,000 \$4,000 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-760 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$0 \$1,000 (\$40,000) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 1-72-975 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$6,000 \$40,000 \$68,000 \$1,250 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$4,000 \$4,000 \$1,250 (\$7,550) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 -72-975 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$68,000 \$1,250 \$371,150 FY 2013 BUDGET | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$4,000 \$4,000 \$7,550) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 -72-975 EWER EXI | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$40,000 \$1,250 \$371,150 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$4,000 \$4,000 \$1,250 (\$7,550) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 -72-975 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$68,000 \$1,250 \$371,150 FY 2013 BUDGET | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$4,000 \$1,250 (\$7,550) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-960 -72-975 EWER EXI | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$48,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$4,000 \$4,000 \$1,250 (\$7,550) CHANGE |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-510 -72-975 -72-975 -72-975 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$200 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$40,000 \$40,000 \$46,000 \$41,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$40,000 \$4,000 (\$1,250) (\$7,550) CHANGE \$7,900 \$650 (\$1,950) |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-510 -72-975 -72-975 -72-975 -74-110 -74-111 -74-111 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$79,950 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$40,000 \$40,000 \$46,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$40,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-975 -72-975 -74-110 -74-111 -74-111 -74-120 -74-150 -74-150 -74-200 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$1,000 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$40,000 \$40,000 \$46,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 (\$40,000) \$4,000 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-975 -72-975 -72-975 -74-110 -74-111 -74-120 -74-150 -74-200 -74-211 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies Education & Training | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 \$655 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 \$704 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$1,000 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$440,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 \$1,500 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$4,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-975 EWER EXI -74-110 -74-111 -74-120 -74-150 -74-200 -74-200 -74-211 -74-240 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies Education & Training Computer Expenses | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 \$655 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 \$704 \$1,800 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$1,000 \$1,500 \$1,500 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$440,000 \$48,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 \$1,500 \$1,800 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$4,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 \$0 \$0 |
| -72-120 -72-150 -72-200 -72-210 -72-211 -72-240 -72-265 -72-290 -72-330 -72-470 -72-510 -72-751 -72-975 EWER EXI -74-110 -74-111 -74-120 -74-150 -74-200 -74-200 -74-211 -74-240 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies Education & Training | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 \$655 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 \$704 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$1,000 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$440,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 \$1,500 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$40,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 \$0 \$0 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 1-72-211 1-72-240 1-72-265 1-72-290 1-72-330 1-72-470 1-72-510 1-72-751 1-72-960 1-72-975 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies Education & Training Computer Expenses | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 \$655 \$0 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 \$704 \$1,800 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,000 \$5,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$1,000 \$1,500 \$1,500 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$2,000 \$40,000 \$40,000 \$440,000 \$48,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 \$1,500 \$1,800 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$40,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 \$0 \$0 \$0 |
| 1-72-120 1-72-150 1-72-200 1-72-210 1-72-211 1-72-240 1-72-265 1-72-290 1-72-330 1-72-470 1-72-510 1-72-510 1-72-975 EEWER EXI 1-74-110 1-74-111 1-74-120 1-74-150 1-74-200 1-74-211 1-74-240 1-74-265 | Salary & Wages (PT) Employee Benefits Storm Drain Supplies Dues & Subscriptions Education & Training Computer Expenses Tools & Equipment Communications/Telephone Professional/Technical Testing Insurance Storm Drain Maintenance Depreciation - Storm Drain Bad Debt PENDITURES Salary & Wages (FT) Overtime Salary & Wages (PT) Employee Benefits Sewer Supplies Education & Training Computer Expenses Tools & Equipment | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,461 \$60,235 \$1,962 \$79,657 FY 2010 ACTUAL \$131,304 \$286 \$3,900 \$73,394 \$1,040 \$655 \$0 \$0 \$0 \$0 \$0 \$1,040 | \$2,182 \$62,663 \$971 \$1,560 \$188 \$1,200 \$1,045 \$1,096 \$7,227 \$0 \$4,275 \$46,779 \$67,296 \$964 \$322,939 FY 2011 ACTUAL \$125,924 \$531 \$4,519 \$68,207 \$834 \$704 \$1,800 \$0 | \$5,750 \$76,200 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$1,000 \$2,500 \$80,000 \$64,000 \$2,500 \$378,700 FY 2012 BUDGET \$141,600 \$2,100 \$7,950 \$7,950 \$1,000 \$1,500 \$1,500 \$1,500 | \$87,250 \$3,000 \$2,000 \$1,000 \$1,200 \$2,000 \$1,500 \$2,000 \$40,000 \$40,000 \$48,000 \$1,250 \$371,150 FY 2013 BUDGET \$149,500 \$2,750 \$6,000 \$88,000 \$1,000 \$1,500 \$1,000 \$1,000 \$1,000 | \$11,050 \$0 \$0 \$0 \$0 \$0 \$1,000 \$1,000 \$4,000 \$1,250 (\$7,550) CHANGE \$7,900 \$650 (\$1,950) \$8,050 \$0 |

| GRAND TO | DTALS | \$2,500,198 | \$2,960,696 | \$3,180,000 | \$3,175,000 | (\$5,000) |
|------------------------|---|-------------------|----------------------|-----------------------|-----------------------|-------------------------|
| | | \$60,642 | \$140,627 | \$135,000 | \$118,850 | (\$16,150) |
| 51-75-820 51-75-911 | Transfer to Capital Projects Transfer to Motor Pool Fund | \$0 \$60,642 | \$76,681 \$63,946 | \$77,900 \$57,100 | \$75,850 \$43,000 | (\$2,050) (\$14,100) |
| NON-OPE | RATING EXPENDITURES | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| | | \$782,017 | \$911,131 | \$982,900 | \$1,009,050 | \$26,150 |
| 51-74-975 | Bad Debt | \$8,106 | \$4,549 | \$10,500 | \$5,000 | (\$5,500) |
| 51-74-752 51-74-960 | Sewer Construction Projects Depreciation - Sewer | \$0 \$128,806 | \$764 \$128,806 | \$10,000 \$138,000 | \$10,000 \$141,500 | \$0 \$3,500 |
| 51-74-510 | Insurance | \$14,021 | \$6,412 | \$7,500 | \$9,000 | \$1,500 |
| 51-74-473 | Sewer Fee - AF | \$0 | \$0 | \$0 | \$1,000 | \$1,000 |
| 51-74-472 | Sewer Television Expenses | \$0 | \$0 | \$2,000 | \$2,000 | \$0 |
| 51-74-470 | TSSD Billiing | \$413,895 | \$565,139 | \$570,000 | \$580,000 | \$10,000 |
| 51-74-330 | Professional/Technical | \$2,260 | \$1,655 | \$2,000 | \$3,000 | \$1,000 |
| 51-74-310 | Engineering Services | \$0 | \$0 | \$1,000 | \$1,000 | \$0 \$0 |
| 51-74-290 | Communications/Telephone | \$1,325 | \$1,164 | \$1,500 | \$1,5 | |

Water, Sewer, & Storm Drain Fund Cash Flow Analysis

| TOTAL BUDGETED LOSS | (\$275,000) |
|-----------------------------|-------------|
| Less Debt Service | |
| 2006 PI Bond Principal | (\$180,000) |
| 2007 Well Bond Principal | (\$89,000) |
| 2009 PI2 Bond Principal | (\$30,000) |
| Less Capital Projects | |
| Handheld Reader | (\$25,000) |
| Trailer for Ditch Witch | (\$15,000) |
| Water Stock | (\$11,400) |
| Plus Non-Cash Items | |
| Depreciation - Storm Drain | \$68,000 |
| Depreciation - Water | \$412,000 |
| Depreciation - Sewer | \$141,500 |
| Amortization - Bond Costs | \$7,450 |
| Accrued Interest Adjustment | (\$3,550) |
| TOTAL CASH OUTFLOW | \$0 |

MOTOR POOL REVENUES

| | | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|-----------|---|-------------------|-------------------|-------------------|-------------------|------------|
| 60-30-100 | Contribution from General Fund | \$60,121 | \$71,255 | \$132,150 | \$104,000 | (\$28,150) |
| 60-30-200 | Contribution from Water & Sewer Fund | \$60,642 | \$63,946 | \$57,100 | \$43,000 | (\$14,100) |
| 60-30-300 | Contribution from Community Recreation Fund | \$134 | \$2,332 | \$2,750 | \$3,000 | \$250 |
| 60-70-205 | Gain on Sale of Assets | \$23,354 | \$13,467 | \$18,000 | \$40,000 | \$22,000 |
| | | \$144.251 | \$151,000 | \$210,000 | \$190,000 | (\$20,000) |

MOTOR POOL EXPENDITURES

| \$5,353 \$420 \$874 | \$6,028 \$888 | \$7,500 | \$8,000 | \$500 |
|---------------------------|--|---|--|---|
| • | \$888 | | | ⊅⊒UU |
| \$87 <i>4</i> | ¥ | \$1,000 | \$1,000 | \$0 |
| Ψ0/ 4 | \$1,085 | \$1,500 | \$1,500 | \$0 |
| \$1,483 | \$1,071 | \$1,250 | \$1,500 | \$250 |
| \$322 | \$563 | \$500 | \$500 | \$0 |
| \$430 | \$873 | \$750 | \$750 | \$0 |
| \$20,160 | \$29,610 | \$30,000 | \$35,000 | \$5,000 |
| \$5,527 | \$5,576 | \$10,000 | \$10,000 | \$0 |
| \$4,366 | \$5,631 | \$7,500 | \$6,750 | (\$750) |
| \$0 | \$1,375 | \$1,500 | \$1,750 | \$250 |
| \$0 | \$431 | \$500 | \$500 | \$0 |
| \$134 | \$525 | \$750 | \$750 | \$0 |
| \$0 | \$0 | \$1,000 | \$0 | (\$1,000) |
| \$39,069 | \$53,658 | \$63,750 | \$68,000 | \$4,250 |
| FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| \$16,858 | \$16,250 | \$16,250 | \$17,000 | \$750 |
| \$88,324 | \$81,092 | \$130,000 | \$105,000 | (\$25,000) |
| \$105,182 | \$97,342 | \$146,250 | \$122,000 | (\$24,250) |
| \$144,251 | \$151,000 | \$210,000 | \$190,000 | (\$20,000) |
| | \$1,483 \$322 \$430 \$20,160 \$5,527 \$4,366 \$0 \$134 \$0 \$39,069 FY 2010 ACTUAL \$16,858 \$88,324 \$105,182 | \$1,483 \$1,071 \$322 \$563 \$430 \$873 \$20,160 \$29,610 \$5,527 \$5,576 \$4,366 \$5,631 \$0 \$1,375 \$0 \$431 \$134 \$525 \$0 \$0 \$39,069 \$53,658 FY 2010 FY 2011 ACTUAL \$16,858 \$16,250 \$88,324 \$81,092 \$105,182 \$97,342 | \$1,483 \$1,071 \$1,250 \$322 \$563 \$500 \$430 \$873 \$750 \$20,160 \$29,610 \$30,000 \$5,527 \$5,576 \$10,000 \$4,366 \$5,631 \$7,500 \$0 \$1,375 \$1,500 \$0 \$431 \$500 \$134 \$525 \$750 \$0 \$0 \$1,000 \$39,069 \$53,658 \$63,750 FY 2010 FY 2011 FY 2012 ACTUAL ACTUAL BUDGET \$16,858 \$16,250 \$16,250 \$88,324 \$81,092 \$130,000 \$105,182 \$97,342 \$146,250 | \$1,483 \$1,071 \$1,250 \$1,500 \$322 \$563 \$500 \$500 \$430 \$873 \$750 \$750 \$20,160 \$29,610 \$30,000 \$35,000 \$5,527 \$5,576 \$10,000 \$10,000 \$4,366 \$5,631 \$7,500 \$6,750 \$0 \$1,375 \$1,500 \$1,750 \$0 \$431 \$500 \$500 \$134 \$525 \$750 \$750 \$0 \$0 \$1,000 \$0 \$39,069 \$53,658 \$63,750 \$68,000 FY 2010 FY 2011 FY 2012 FY 2013 ACTUAL ACTUAL BUDGET BUDGET \$16,858 \$16,250 \$16,250 \$17,000 \$88,324 \$81,092 \$130,000 \$105,000 \$105,182 \$97,342 \$146,250 \$122,000 |

COMMUNITY RECREATION FUND REVENUES

| GOLF REV | ENUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|---|---|---|---|---|--|--|
| 75-30-100 75-30-300 75-30-400 75-30-500 75-30-600 75-30-800 75-35-400 | Green Fees Practice Range Pro Shop Revenue Snack Shack & Concessions Season Passes Other Income 2005 GO Bond - Property Tax | \$499,732 \$27,514 \$78,433 \$34,547 \$27,925 \$250 \$385,260 | \$491,760 \$26,396 \$77,727 \$29,435 \$21,150 \$0 \$398,339 | \$580,000 \$35,000 \$90,000 \$20,000 \$50,000 \$0 \$385,000 | \$550,000 \$30,000 \$80,000 \$5,000 \$40,000 \$0 \$385,000 | (\$30,000) (\$5,000) (\$10,000) (\$15,000) (\$10,000) \$0 |
| 73-33-400 | 2000 GG Bolid - Fropolity Tax | \$1,053,660 | \$1,044,807 | \$1,160,000 | \$1,090,000 | (\$70,000) |
| EVENTS RE | VENUE | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 75-31-100 75-31-200 | Events Center Rentals Grill & Concessions | \$11,570 \$0 | \$4,743 \$0 | \$70,000 \$40,000 | \$160,000 \$80,000 | \$90,000 \$40,000 |
| | | \$11,570 | \$4,743 | \$110,000 | \$240,000 | \$130,000 |
| TRANSFER | SIN | FY 2010 ACTUAL | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
| 75-35-100 75-35-300 | Transfer from Capital Projects Fund Transfer from General Fund | \$0 \$0 | \$371,726 \$0 | \$2,500,000 \$0 | \$0 \$65,000 | (\$2,500,000) \$65,000 |
| | | \$0 | \$371,726 | \$2,500,000 | \$65,000 | (\$2,435,000) |
| GRAND TO | OTAL | \$1,065,230 | \$1,421,276 | \$3,770,000 | \$1,395,000 | (\$2,375,000) |

COMMUNITY RECREATION FUND EXPENDITURES

| GOLF EXP | GOLF EXPENDITURES | | FY 2011 ACTUAL | FY 2012 BUDGET | FY 2013 BUDGET | CHANGE |
|--|--|---|---|---|---|--|
| 75-43-110 Salary & Wages (FT) | | ACTUAL \$169,226 | \$204,819 | \$195,500 | \$180,000 | (\$15,500) |
| 75-43-111 | Overtime | \$274 | \$93 | \$1,000 | \$500 | (\$500) |
| 75-43-120 | Salary & Wages (PT) | \$109,472 | \$104,418 | \$180,000 | \$145,000 | (\$35,000) |
| 75-43-150 | Employee Benefits | \$114,342 | \$121,579 | \$140,500 | \$120,000 | (\$20.500) |
| 75-50-100 | 10.00 | \$8,646 | \$7,710 | \$10,000 | \$10,000 | \$0 |
| 75-50-200 | Utilities | \$24,844 | \$22,352 | \$27,000 | \$18,000 | (\$9,000) |
| | Miscellaneous Expenses | \$2,834 | \$1,725 | \$3,000 | \$2,000 | (\$1,000) |
| | Snack Shack & Concessions | \$27,147 | \$30,931 | \$15,000 | \$4,000 | (\$11,000) |
| 75-50-600 | | \$14,366 | \$13,739 | \$18,000 | \$16,000 | (\$2,000) |
| | Pro Shop | \$41,526 | \$41,973 | \$45,000 | \$44,000 | (\$1,000) |
| 75-50-800 | 58/h • | \$0 | \$0 | \$0 | \$2,500 | \$2,500 |
| 75-60-100 | 9 | \$31,836 | \$35,157 | \$60,000 | \$60,000 | \$0 |
| 75-60-200 | • | \$23,969 | \$25,889 | \$30,000 | \$30,000 | \$0 |
| | Water & Pumping Costs | \$12,251 | \$11,648 | \$15,000 | \$15,000 | \$0 |
| 75-60-500 | | \$12,683 | \$11,611 | \$16,000 | \$16,000 | \$0 |
| | | • | | • | | • |
| 75-60-600 | | \$27,814 \$370 | \$30,642 | \$22,000 | \$22,000 | \$0 \$0 |
| 75-60-700 | | \$379 | \$1,086 | \$2,500 | \$2,500 | \$0 \$1,000 |
| | Insurance | \$1,696 | \$2,093 | \$4,000 | \$5,000 | \$1,000 |
| 75-60-900 | • | \$7,552 | \$312 | \$10,000 | \$10,000 | \$0 |
| 75-70-100 | | \$4,599 | \$3,517 | \$3,500 | \$3,500 | \$0 |
| 75-70-200 | 9 | \$583 | \$587 | \$2,000 | \$1,000 | (\$1,000) |
| | Travel/Training | \$609 | \$914 | \$2,500 | \$2,000 | (\$500) |
| 75-70-400 | | \$971 | \$1,000 | \$2,000 | \$2,000 | \$0 |
| 75-70-500 | • | \$5,355 | \$4,833 | \$6,000 | \$6,000 | \$0 |
| | Advertising | \$23,901 | \$37,908 | \$35,000 | \$35,000 | \$0 |
| 75-80-200 | Clubhouse Lease Payment | \$13,008 | \$20,994 | \$5,300 | \$0 | (\$5,300) |
| 75-80-300 | Cart Lease Payment - Interest | \$0 | \$14,487 | \$8,700 | \$6,800 | (\$1,900) |
| 75-80-400 | Maintenance Equipment Lease - Interest | \$0 | \$2,805 | \$400 | \$0 | (\$400) |
| 75-80-450 | Trustee Fees | \$450 | \$450 | \$450 | \$450 | \$0 |
| 75-80-500 | 2005 GO Bond Interest | \$262,683 | \$242,620 | \$237,300 | \$231,650 | (\$5,650) |
| 75-80-501 | Amortization Expense | \$4,097 | \$4,097 | \$4,100 | \$4,100 | \$0 |
| 75-80-505 | Interest Expense | \$0 | \$4,763 | \$3,000 | \$5,000 | \$2,000 |
| 75-80-900 | Loss/(Gain) on Sale of Asset | \$9,787 | \$0 | \$0 | \$0 | \$0 |
| 75-80-911 | Transfer to Motor Pool Fund | \$134 | \$2,332 | \$2,750 | \$3,000 | \$250 |
| 75-80-960 | Depreciation Expense | \$290,643 | \$248,752 | \$252,500 | \$257,000 | \$4,500 |
| | | \$1,228,101 | \$1,257,836 | \$1,360,000 | \$1,260,000 | (\$100,000 |
| EVENTS E | KPENDITURES | FY 2010 | FY 2011 | FY 2012 | FY 2013 | CHANGE |
| | | ACTUAL | ACTUAL | BUDGET | BUDGET | |
| | Salary & Wages (FT) | \$0 | \$0 | \$14,500 | \$18,000 | \$3,500 |
| 75-85-111 | | \$0 | \$0 | \$0 | \$500 | \$500 |
| 75-85-120 | | \$0 | \$ O | \$15,000 | \$60,000 | \$45,000 |
| 75-85-150 | | \$0 | \$ O | \$11,750 | \$16,500 | \$4,750 |
| 75-90-200 | • • | \$0 | \$ O | \$2,000 | \$2,000 | \$0 |
| , 5 , 5 . 200 | Education & Training | \$0 | \$0 | \$ O | \$500 | \$500 |
| | | \$0 | \$0 | \$3,000 | \$20,000 | \$17,000 |
| 75-90-211 | Utilities | 4 | | | | \$2,750 |
| 75-90-211 75-90-300 | | \$0 | \$0 | \$250 | \$3,000 | \$2,750 |
| 75-90-211 75-90-300 75-90-400 | Communications/Telephone | | \$ 0 \$ 0 | \$250 \$30,000 | \$3,000 \$60,000 | \$30,000 |
| 75-90-211 75-90-300 75-90-400 75-90-500 | Communications/Telephone Grill & Concessions | \$0 | | • | | |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 | Communications/Telephone Grill & Concessions Credit Card Expenses | \$0 \$0 \$0 | \$0 \$0 | \$30,000 \$1,000 | \$60,000 \$5,000 | \$30,000 \$4,000 |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 75-90-700 | Communications/Telephone Grill & Concessions Credit Card Expenses Advertising | \$0 \$0 \$0 \$0 | \$0 \$0 \$0 | \$30,000 \$1,000 \$10,000 | \$60,000 \$5,000 \$10,000 | \$30,000 \$4,000 \$0 |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 75-90-700 75-90-750 | Communications/Telephone Grill & Concessions Credit Card Expenses Advertising Insurance | \$0 \$0 \$0 \$0 \$0 | \$0 \$0 \$0 \$0 | \$30,000 \$1,000 \$10,000 \$2,000 | \$60,000 \$5,000 \$10,000 \$2,000 | \$30,000 \$4,000 \$0 \$0 |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 75-90-750 75-90-750 | Communications/Telephone Grill & Concessions Credit Card Expenses Advertising Insurance Building Maintenance | \$0 \$0 \$0 \$0 \$0 \$981 | \$0 \$0 \$0 \$0 \$340 | \$30,000 \$1,000 \$10,000 \$2,000 \$2,500 | \$60,000 \$5,000 \$10,000 \$2,000 \$7,500 | \$30,000 \$4,000 \$0 \$0 \$5,000 |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 75-90-750 75-90-800 75-90-900 | Communications/Telephone Grill & Concessions Credit Card Expenses Advertising Insurance Building Maintenance Loss on Sale of Asset | \$0 \$0 \$0 \$0 \$0 \$981 \$0 | \$0 \$0 \$0 \$0 \$340 \$32,921 | \$30,000 \$1,000 \$10,000 \$2,000 \$2,500 | \$60,000 \$5,000 \$10,000 \$2,000 \$7,500 | \$30,000 \$4,000 \$0 \$0 \$5,000 |
| 75-90-211 75-90-300 75-90-400 75-90-500 75-90-600 75-90-750 75-90-750 | Communications/Telephone Grill & Concessions Credit Card Expenses Advertising Insurance Building Maintenance Loss on Sale of Asset | \$0 \$0 \$0 \$0 \$0 \$981 | \$0 \$0 \$0 \$0 \$340 | \$30,000 \$1,000 \$10,000 \$2,000 \$2,500 | \$60,000 \$5,000 \$10,000 \$2,000 \$7,500 | \$30,000 \$4,000 \$0 \$0 \$5,000 |

Community Recreation Fund Cash Flow Analysis

| TOTAL BUDGETED LOSS | (\$105,000) |
|-----------------------------|-------------|
| Less Debt Service | |
| 2005 GO Bond Principal | (\$150,000) |
| Cart Lease Principal | (\$38,600) |
| Plus Non-Cash Items | |
| Depreciation | \$292,000 |
| Amortization - Bond Costs | \$4,100 |
| Accrued Interest Adjustment | (\$2,500) |
| TOTAL CASH OUTFLOW | SO SO |



| TO: | Mayor and City Council |
|-------|-----------------------------|
| FROM: | David Bunker, City Engineer |
| DATE: | 6/5/2012 |

City Council Agenda Item

| SUBJECT: | Wal-Mart Durability Release |
|-------------------------|-----------------------------|
| APPLICANT PRESENTATION: | N/A |
| STAFF PRESENTATION: | David Bunker, City Engineer |

BACKGROUND AND FINDINGS:

A final walkthrough of Wal-Mart has been conducted. City staff conducted an initial inspection which produced a punch list of items to correct. Following the correction of these items, the staff re-inspected the subdivision for compliance with City standards. At this time all improvements have been installed per development regulations and agreements.

PREVIOUS LEGISLATIVE ACTION:

N/A

FISCAL IMPACT:

N/A

SUPPORTING DOCUMENTS:

N/A

RECOMMENDATION:

Staff recommends the City Council act to accept the subdivisions improvements and authorize the release of the durability guarantee.

MOTION:

To approve/not approve acceptance of subdivision improvements for the Wal-Mart Subdivision, release of the durability guarantee, subject to all inspection fees paid.

| TO: | Mayor Richardson & City Council |
|-------|----------------------------------|
| FROM: | Rebecca Tehero, Finance Director |
| DATE: | 6/5/2012 |

City Council Memorandum

| DAIL. | 0/0/2012 | | |
|-------------------------|-------------------|--|--|
| | | | |
| SUBJECT: | | Funding Phase II of the Community Recreation Center | |
| APPLICANT PRESENTATION: | | | |
| STAFF PRESENTATION: Cho | | Chandler Goodwin, Finance Analyst | |
| | | | |
| After revi future ph | _ | ation impact fee account, approximately \$180,000 is available for numbers. Unrestricted funds may also be used to | |
| PREVIOUS LE | EGISLATIVE ACTION | ON: | |
| FISCAL IIVIFA | 101. | | |
| SUPPORTING | DOCUMENTS: | | |
| | ommends the Ci | ity Council to use the remaining recreation impact fees to complete ty Recreation Center. | |
| | ove use of the re | ecreation facility impact fees for phase II of the Community | |

Receration Center Basement Costs

Equipment, Sound System, Etc.

| Spin Bikes (15) | \$18,005.00 |
|--|-------------|
| Cardio and Resistance Equipment | \$81,110.00 |
| Mirrors in Aerobic Room | TBD |
| Sound System (cardion and aerobic room) | \$28,332.00 |
| Security Camera System (entire building) | TBD |

Flooring

Cardio Room Flooring (rubber matting) \$4,010.00
Aerobic Room Flooring (hard wood) *Unofficial \$55.00/sqft.

Finishing Space

3,774 Sq Ft @ \$40-\$45 \$150,960 - \$169,830

| то: | Mayor and City Council |
|-------|-----------------------------------|
| FROM: | David Bunker, Acting City Manager |
| DATE: | 6/5/2012 |

City Council Agenda Item

| SUBJECT: | Civic Center Preliminary Study and Analysis |
|-------------------------|---|
| APPLICANT PRESENTATION: | N/A |
| STAFF PRESENTATION: | David Bunker |
| | |

BACKGROUND AND FINDINGS:

The City Council has asked that the discussion item of the Civic Center Preliminary Study and Analysis be included on each agenda.

PREVIOUS LEGISLATIVE ACTION:

N/A

FISCAL IMPACT:

N/A

SUPPORTING DOCUMENTS:

N/A

RECOMMENDATION:

To continue the discussion item of the Civic Center Preliminary Study and Analysis.

MOTION:

To continue the discussion item of the Civic Center Preliminary Study and Analysis.