

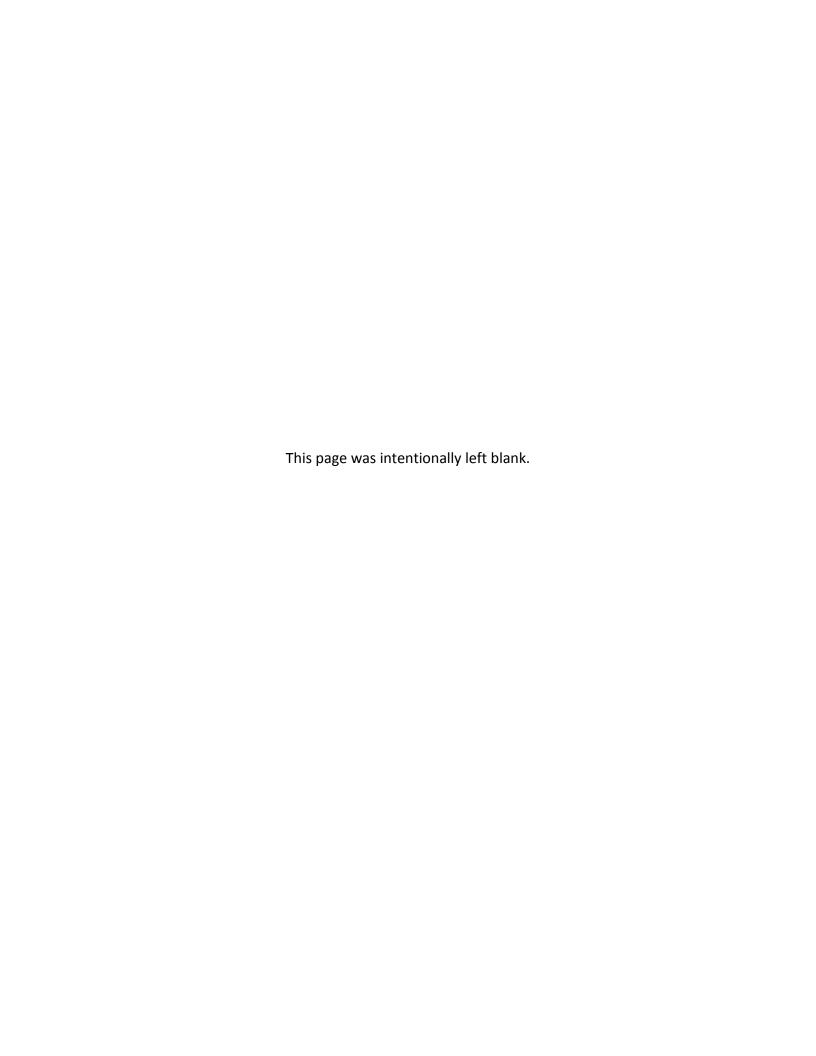


CITY OF GUADALUPE

Water & Wastewater Rate Analysis and Study

DRAFT Report November 2015









November 17, 2015

Andrew Carter, City Administrator City of Guadalupe 918 Obispo Street Guadalupe, CA 93434

Re: Water and Wastewater Rate Analysis and Study

Bartle Wells Associates is pleased to submit the attached Water and Wastewater Rate Analysis and Study to the City of Guadalupe. The study presents BWA's analysis of the operating and non-operating expenses of the City's water and wastewater systems and provides a ten year cash flow projection. The primary purpose of this study was to analyze the City's water and wastewater enterprise funds and make recommendations that would achieve their financial sustainability, including grant funding or other low-cost loan programs such as the State Revolving Fund.

The report recommends updating rates and charges in order to more accurately recover the costs of providing service to the City's customers. Recommendations were developed with substantial input from City staff. BWA finds that the rates and charges proposed in our report to be based on the cost of service, follow generally accepted rate design criteria, and adhere to the substantive requirements of Proposition 218. BWA believes that the proposed rates are fair and reasonable to the City's customers.

We have enjoyed working with you on the rate study and appreciate the City's assistance throughout the project. Please contact us if you ever have any future questions about this study and the rate recommendations.

Yours truly,

Doug Dove, CIPFA

Principal

Matt Griffin

Financial Analyst

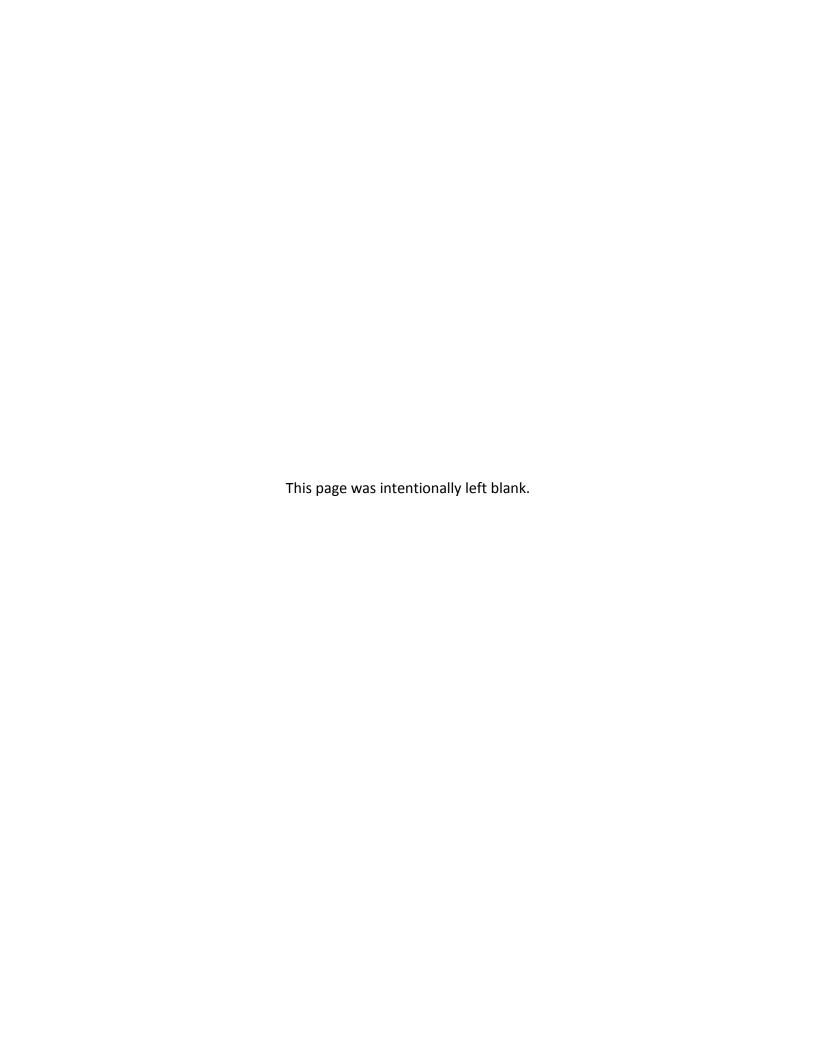


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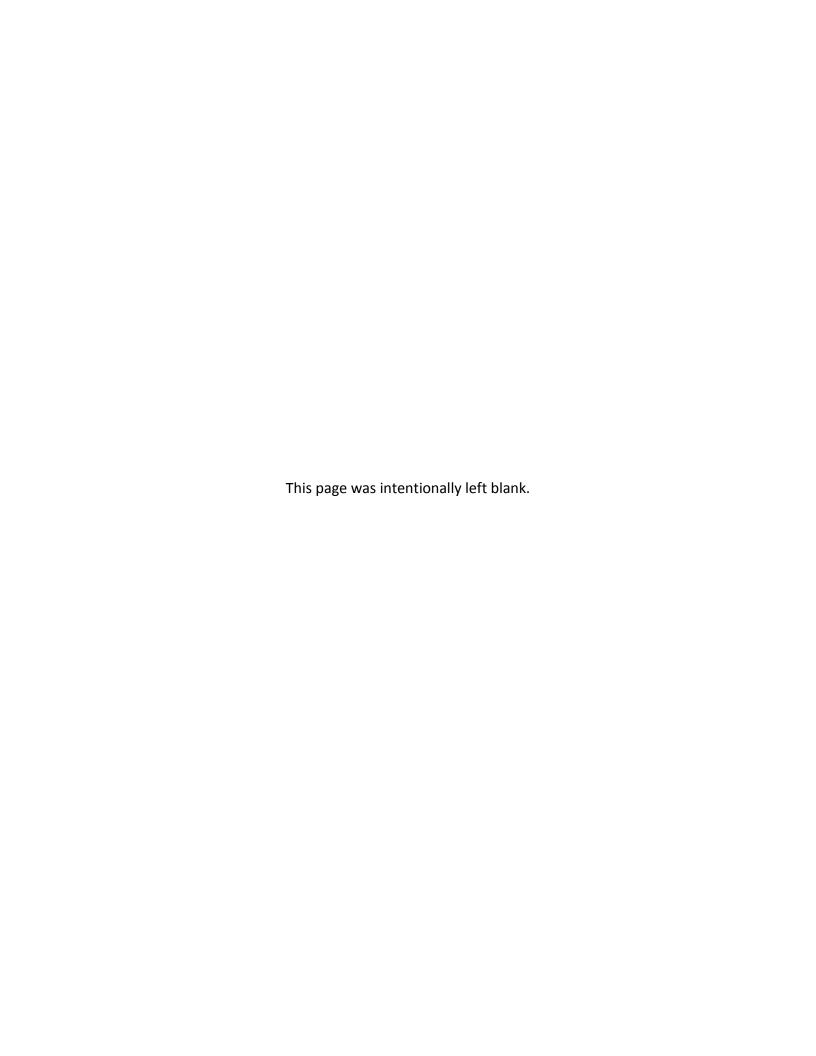
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1 EXECUTIVE SUMMARY

1.1 Background

The City of Guadalupe (City) is located at the north western corner of Santa Barbara County, CA, about 70 miles north of the City of Santa Barbara. The City provides water and wastewater services to about 2,000 water and wastewater customer accounts in an area that encompasses less than 1.5 square miles.

The revenues from the City's water and wastewater utilities are primarily derived from charges for services. The City must establish rates and charges adequate to fund the cost of providing water and wastewater services, including costs for operations and capital improvements needed to keep the City's utility infrastructure in safe and reliable operating condition.

Water rates were last reviewed in 2011, and have been increased by CPI since. Wastewater rates were last reviewed and increased in early 2015. Based on a survey of 14 regional water agencies, the City has some of the lowest residential water rates in the region. Based on a survey of 14 regional wastewater agencies, the City's wastewater rates fall roughly in the middle range of these agencies. This is largely due to the fact that the City has had to raise rates to pay for significant wastewater capital improvements, such as the 2013 failure of the main sewer line.

In May 2015, the City retained Bartle Wells Associates (BWA) to develop a comprehensive rate analysis and study for the City's water and wastewater enterprises. Basic objectives of the rate study include:

- Identify rate setting principles.
- Develop long-term financial projections to determine future annual water and wastewater enterprise revenue requirements.
- Evaluate rate alternatives and recommend water and wastewater designed to equitably recover the costs of providing service.

Based on input from City staff, key guiding principles included developing rates that:

- Are fair and equitable to all customer classes.
- Recover the costs of providing service and generate adequate funding for capital needs and staffing.
- Are easy to understand and implement.
- Comply with the legal requirements of Proposition 218 and other California laws.

1.2 Proposition 218

Utility rates are subject to the procedural and substantive requirements as set forth in Proposition 218. Proposition 218 was adopted by California voters in 1996 and added Articles 13C and 13D to the California Constitution. Article 13D, Section 6 governs property-related charges, which the California Supreme Court subsequently ruled includes ongoing utility service charges such as water and wastewater. Article 13D, Section 6 establishes a) procedural requirements for imposing or increasing property-related charges, and b) substantive requirements for those charges. Article 13D also requires voter approval for new or increased property-related charges but exempts from this voting requirement rates for water and wastewater service. The substantive requirements of Article 13D, Section 6 require the City's utility rates to meet the following conditions:

- Revenues derived from the fee or charge shall not exceed the funds required to provide the property related service.
- Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.
- The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- No fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question.
- No fee or charge may be imposed for general governmental services, such as police or fire services, where the service is available to the public at large in substantially the same manner as it is to property owners.

The procedural requirements of Proposition 218 for all utility rate increases are as follows:

- Noticing Requirement: The City must mail a notice of proposed rate increases to all
 affected property owners. The notice must specify the basis of the fee, the reason for
 the fee, and the date/time/location of a public rate hearing at which the proposed
 rates will be considered/adopted.
- Public Hearing: The City must hold a public hearing prior to adopting the proposed rate increases. The public hearing must be held not less than 45 days after the required notices are mailed.
- Rate Increases Subject to Majority Protest: At the public hearing, the proposed rate increases are subject to majority protest. If more than 50% of affected property owners submit written protests against the proposed rate increases, the increases cannot be adopted.

1.3 Use of Generally Accepted Rate-Making Principles

The rates developed in this study use a straightforward methodology to establish an equitable system of fixed and variable charges that recover the cost of providing service and fairly apportion costs to each rate component. The rates were developed using generally accepted cost-based principles and methodologies for establishing water and wastewater rates, charges, and fees contained and discussed in the American Water Works Association (AWWA) M1 Manual.

In developing water and wastewater rates, it is important to know that there is no "one-size-fits-all" approach for establishing cost-based water rates, "the (M1 Manual) is aimed at outlining the basic elements involved in water and wastewater rates and suggesting alternative rules of procedure for formulating rates, thus permitting the exercise of judgment and preference to meet local conditions and requirements."

In reviewing the City's water and wastewater rates and finances, BWA used the following criteria in developing our recommendations:

- 1) Revenue Sufficiency: Rates should recover the annual cost of service and provide revenue stability.
- 2) Rate Impact: While rates are calculated to generate sufficient revenue to cover operating and capital costs, they should be designed to minimize, as much as possible, the impacts on ratepayers.
- 3) *Equitable:* Rates should be fairly allocated among all customer classes based on their estimated demand characteristics. Each user class only pays its proportionate share.
- 4) *Practical:* Rates should be simple in form and, therefore, adaptable to changing conditions, easy to administer and easy to understand.

¹ AWWA Manual M1 Manual, Principles of Water Rates, Fees, and Charges, Sixth Edition, 2012, page 5.

1.4 Water Overview

1.4.1 Water System

The City owns, operates, and maintains a potable water system that serves 1,968 customers, 92% of which are residential, 6% are commercial, and 1% are irrigation. The City anticipates growth of about 5% per year from FY2017 – FY2020, and 3% growth thereafter.

The City currently has one groundwater well and purchases additional State Water. The majority of water sold is for residential use. From FY2009 – FY2013 the water sold for residential was on average 62% of total water sold. In FY2014, due to conservation from the drought, this number fell to 52%, and in FY2015 to 46%. To be conservative, it is assumed that total water use will continue to decrease by another 10% in FY2016. Since a significant portion of the City's operating revenue is raised from the variable rate charge, decrease in consumption will result in revenue shortfalls for the City.

The Water Fund had a balance of about \$250,000 at the beginning of FY2016. Operating expenses are currently higher than operating revenues, but the City has received a \$350,000 grant which will help cover the shortfall. If rates are not increased, the Water Fund is projected to become depleted by FY2017. This is largely due to the \$3.4 million of capital improvement which are planned from FY2016 – FY2021.

1.4.2 Water System Recommendations

BWA recommends updating rates to better reflect revenue requirements and the cost of service, including increasing operational and capital costs, and developing reserve fund targets. In addition to rate increase, BWA recommends the City borrow \$5.2 million through low interest State Revolving Fund (SRF) loans to pay for capital improvements. BWA recommends that once more data becomes available, the City reevaluate monthly fixed rates and derive a fixed rate for each meter size, and align these meter ratios with the American Water Works Association (AWWA) recommended ratios.

1.4.3 Current Water Rates

Current monthly water rates are shown on Table 1. Rates were last reviewed in FY2011. The City's water rates are some of the lowest in the region. The current rate is a \$21.92 basic rate (fixed charge) for all customers, which includes 6 ccf (hundred cubic feet) of water, and each additional unit (variable rate) is \$3.65. It is assumed that \$21.92 is based on the cost of 6 units of water, with a slight difference due to annual rounding.

Table 1: Current Monthly Water Rates City of Guadalupe Water and Wastewater Rate Analysis and Study

All Meter Sizes	Monthly Rate
All Meter 312es	Wionthly Nate
Basic Rate*	\$21.92
Each Additional Unit/ccf	\$3.65
Lacif Additional Office	Ş3.03
Average Monthly Bill (9 ccf use)	\$32.87
*Includes 6 ccf per month	

1.4.4 Proposed Water Rates

Table 2 shows the proposed monthly water rates. The first increase would take place February 1, 2016. Rate increases thereafter would come into effect on January 1st.

Table 2: Proposed Monthly Water Rates, Tiers and Meter Ratios City of Guadalupe Water and Wastewater Rate Analysis and Study

Proposed Monthly Water Rates	Current	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Froposed Monthly Water Nates	Current	Feb 1	Jan 1				
Basic Rate (includes 6 ccf* use) Each Additional Unit/ccf	\$21.92 \$3.65	\$22.86 \$3.81	\$24.12 \$4.02	\$25.44 \$4.24	\$26.82 \$4.47	\$28.32 \$4.72	\$29.88 \$4.98

^{*}ccf = 100 cubic feet (748 gallons)

1.5 Wastewater System Overview

1.5.1 Wastewater Customers

The City's wastewater collection system serves 1,910 customers, 95% of which are residential, while the remaining 5% are commercial. The City anticipates growth of about 5% per year from FY2017 – FY2020, and 3% growth thereafter.

1.5.2 Wastewater System

The City's wastewater collection and transmission system consisting of approximately 15 miles of pipelines, which conveys wastewater flows by gravity to three lift stations and wastewater treatment plant. The wastewater treatment plant consists of the screening, biological treatment, sludge dewatering, effluent storage, and land application via spray distribution. The average daily flow is estimated to be .68 million gallons per day (MGD).

The Wastewater Fund balance is currently negative. The cash balance at the beginning of FY2016 was negative \$715,653 and is projected to be negative \$622,576 by the end of the year. If rates are not increased the negative fund balance is projected to become worse, reaching negative \$1.5 million in FY2017, and will only increase from there onward. This negative balance is largely due to the 2013 failure of the main sewer line.

1.5.3 Wastewater System

BWA recommends updating rates to better reflect revenue requirements and the cost of service, including increasing operational and capital costs, and developing reserve fund targets. In addition to the rate increases, BWA recommends borrowing \$9 million through low interest State Revolving Fund (SRF) loans to pay for capital improvements.

1.5.4 Current Wastewater Rates

The current monthly wastewater charge is shown on Table 3. Wastewater rates were last reviewed in 2011, and a one-time wastewater rate increase of 30% went into effect June 1, 2015.

Table 3: Current and Future Adapted Monthly Wastewater Rates City of Guadalupe Water and Wastewater Rate Analysis and Study

Monthly Wastewater Rates	
Residential:	\$34.97
Boarding House (Per Room):	\$17.19
Coromonaial	
Commercial:	
Basic Rate (Up to 5 Units)	\$34.97
Each Additional Unit (ccf)	\$1.47

Proposed Wastewater Rates 1.5.5

Table 4 shows the proposed monthly wastewater rates. The first increase would take place February 1, 2016. Rate increases thereafter would come into effect on January 1st. BWA also recommends including boarding houses in the commercial classification.

Table 4: Proposed Monthly Wastewater Rates City of Guadalupe Water and Wastewater Rate Analysis and Study

		Proposed						
Proposed Wastewater Rates	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021		
	Feb 1	Jan 1						
Residential:	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59		
<u>Commercial*</u>								
Basic Rate (Up to 5 Units)	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59		
Each Additional Unit (ccf**)	\$1.71	\$1.91	\$2.03	\$2.06	\$2.10	\$2.13		
Average Residential Monthly Bill	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59		
Average Residential Monthly Bill		•	•	•		•		
\$ Increase	<i>\$5.77</i>	<i>\$4.69</i>	<i>\$2.95</i>	<i>\$0.73</i>	<i>\$0.74</i>	<i>\$0.7</i> 5		
% Increase	16.5%	11.5%	6.5%	1.5%	1.5%	1.5%		
*Now includes Boarding Houses								

^{**}ccf = 100 cubic feet (748 gallons)

2 WATER FINANCES & RATES

2.1 Water Financial Overview

Bartle Wells Associates conducted an independent evaluation of the City's water enterprise finances. Key observations include:

- The current water rate consists of a fixed (base) rate (that includes 6 ccfs of water per month) and a variable rate for each additional unit (ccf). It is assumed that the fixed rate includes the cost of 6 units of water.
- The City currently serves nearly 2,000 customers. The majority are residential (92%).
- The City saw a 5% decrease in water use in FY2015, and due to the on-going drought it is assumed there will be a further 10% reduction in FY2016.
- The City is assuming a 12% decrease in water charge revenues for FY2016: 10% from the water reduction, and another 2% reduction from the elimination of the previously planned Franchise Fee (not legal per City Attorney). Currently, fixed rate revenue makes up 34% of the water charges, and variable rate revenue makes up the remaining 66%.
- Current water operating expenses are \$1,647,002 for FY2016. Over the next six years the City has \$3.5 million in capital improvements planned.
- The cash balance of the water reserves at the end of FY2015 was \$249,121. The estimated cash balance at the end of FY2016 is \$626,319.
- BWA developed four different revenue requirement increase scenarios: Scenario 1 where rates
 are only increased by CPI; Scenario 2 Pay-as-you-go where revenue requirement increases are
 funded solely by rates; Scenario 3 assumes \$5.2 million in SRF loans, along with rate increases;
 and Scenario 4 assumes \$3.5 million in SRF loans and \$1.7 million in grants, along with rate
 increases.
- BWA assumed two different State Revolving Fund (SRF) loan scenarios. The \$5.2 million scenario requires more SRF funding than the \$3.5 million because it assumes less grant funding.
- Beginning in FY2017, the City anticipates significant customer growth (Pasadera, Beachside Cooling, Pioneer Street Apartments, Guadalupe Court), which is conservatively assumed between 3 – 5% annually through FY2025.
- BWA developed reserve fund targets that consist of 25% of operating expenses in addition to a \$1 million capital expenditure reserve. Scenario 3 is expected to reach the reserve fund target by FY2022.
- BWA recommends setting rates based on Scenario 3, and maintaining a 35%/65% fixed/variable breakdown structure.
- The recommended rate is derived by taking the variable revenue requirement and dividing it by the assumed consumption for each year. The variable rate is then adjusted for rounding. The

- fixed charge continues the current structure of including 6 units (ccf) of water, and is determined by multiplying the variable rate by 6 units.
- The City will continue to have an average monthly bill (9 ccf) at the lower end of the spectrum compared to other agencies in the region (Water Survey Chart).

2.2 Current Monthly Water Rates

The City bills water service on a monthly basis. As shown on Table 5, the current water rates include two components:

- 1) Fixed Service Charge (Basic Rate): All customers, residential and non-residential, are charged the same fixed charges. The fixed charge is levied regardless of water consumption and recognizes that even when a customer does not use any water, the City incurs fixed costs in connection with maintaining the ability or readiness to serve each connection. Fixed charges currently recover about 34% of total water service charges revenue. 6 units (ccf) are included in the current fixed charge. It is assumed that the current fixed charge is the cost of 6 units of water.
- 2) Variable Charges (Each Additional Unit): Each customer is billed according to a uniform-tier rate structure in which the cost per ccf (hundred cubic feet) unit of water remains constant as customers use more water. 748 gallons of water is equal to a hundred cubic feet (ccf/hcf) of water. The variable charges are intended to recover costs that vary based on the amount of water consumed and currently generate 66% of total water service charges revenue.

Table 5: Current Monthly Water Rates
City of Guadalupe
Water and Wastewater Rate Analysis and Study

All Meter Sizes	Monthly Rate
Donie Dote *	¢21.02
Basic Rate* Each Additional Unit/ccf	\$21.92 \$3.65
	φσ.σσ
Average Monthly Bill (9 ccf use)	\$32.87

^{*}Includes 6 ccf per month

2.3 Current Water Accounts

Table 6 shows current number of water accounts by customer class and meter size. The majority of customers are residential (92%).

Table 6: Current Water Accounts
City of Guadalupe
Water and Wastewater Rate Analysis and Study

Water Class Codes	User Type	Avg # of Accounts FY2015	Percentage of Total Users		
	Customer Class				
1	Residential	1 01 5	92%		
_		1,815			
2	Commercial	111	6%		
4	Public Authority	4	0%		
5	Multifamily	11	1%		
<u>6</u>	Irrigation	27	<u>1%</u>		
Total		1,968	100%		
	Meter Size				
A1	3/4" – 5/8"	1,909	97%		
B1	1"	15	1%		
D1	1-1/2"	14	1%		
E1	2"	21	1%		
F1	3"	7	0%		
G1	4"	2	0%		
<u>H1</u>	6"		<u>0%</u>		
Total		1,968	100%		

2.4 Water Consumption

Figure 1 shows the City's annual water consumption. BWA's analysis shows that total water consumption has been steadily increasing in recent years, however FY2015 shows a decrease in total use. It is assumed total use will decrease another 10% in FY2016 due to continued conservation.

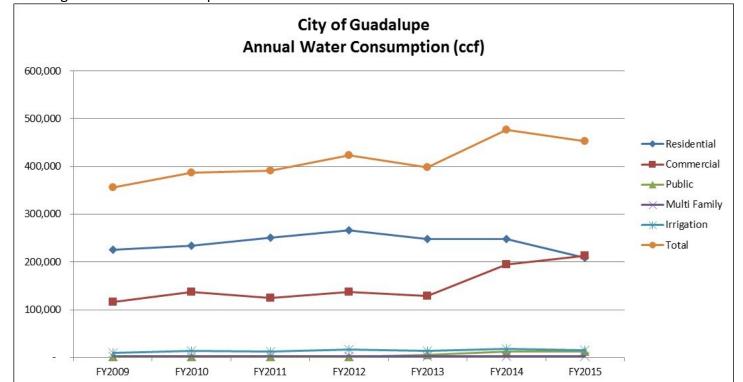


Figure 1: Water Consumption

2.5 Financial Challenges / Key Drivers of Rate Increases

Going forward, the City's water enterprise is facing a number of financial challenges that will require the City to raise its water rates. Key drivers of future rate increases are summarized as follows.

2.5.1 Capital Improvements / Aging Infrastructure

The City has made significant investments in the water distribution system over the past number of years and continues to face substantial capital improvement needs over the next five years. The City's 5-year capital improvement program (CIP) includes \$3.4 million of water system improvements and upgrades from FY2016 through FY2021. Major projects include main replacements and meter replacements. Many regional agencies are facing similar challenges. FY2016 has a less significant amount of CIP expenditures planned, but the years after are much more significant.

Figure 2 shows a breakdown of projected water system CIP costs through FY2021. A detailed list of CIP projects is shown in Appendix A.

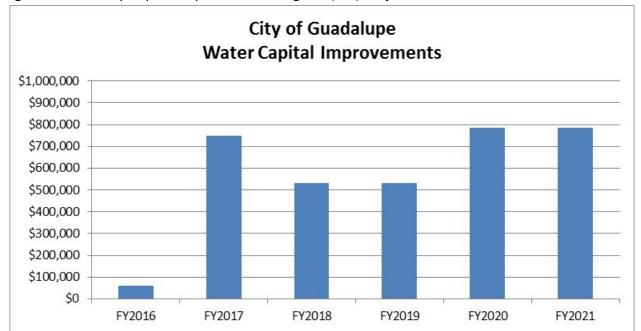


Figure 2: Summary Capital Improvement Program (CIP) Projects

2.5.2 Ongoing Operating Cost Inflation

The City faces ongoing operating cost inflation due to annual increases in a range of expenses such as utilities, supplies, as well as the cost of salaries, benefits, etc. Water and wastewater industry operating cost inflation has historically been significantly higher than the Consumer Price Index (CPI) for consumer goods and services. Since 1996, the average annual CPI for all urban customers has been 2.3%, whereas the average for the Construction Cost Index Engineering News Record (CCI ENR) 20-Cities average is 3.1%. The cash flows in Appendix A include a detailed description of water expense projections through FY2025.

2.5.3 Water Reserve Funds

Maintaining a prudent minimal level of fund reserves provides a financial cushion for dealing with unanticipated expenses, revenue shortfalls, and non-catastrophic emergency capital repairs. The fund reserve targets will escalate over time as the water utility's revenues and expenses gradually increase in future years. Currently the City does not have reserve fund targets. The Water Fund balance at the start of FY2016 is \$249,121.

Table 7 shows BWA's recommend water reserve fund targets. These targets were developed with input from City staff as well as generally held industry standards. BWA recommends creating an Operating Expense Reserve, which holds 25%, or 3 months, of operating and maintenance expenses; and a Capital Expense Reserve to cover the following year's capital improvement projects, or at least \$1 million.

Table 7: Water Reserve Fund Targets

City of Guadalupe

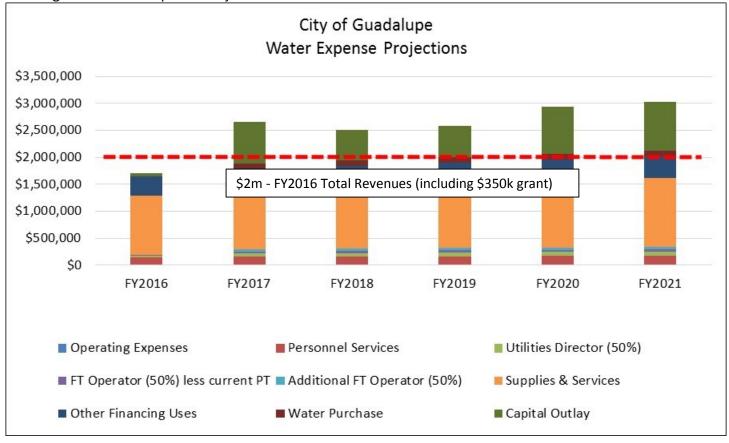
Water and Wastewater Rate Analysis and Study

Reserve Type	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Operating Expense Reserve (25%)	411,750	471,260	485,390	499,970	515,020	530,550
Capital Reserve	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Target:	1,411,750	1,471,260	1,485,390	1,499,970	1,515,020	1,530,550

2.5.4 Water Expense Projections

Figure 3 shows a five-year breakdown of projected water enterprise expense. Revenues exceed expenses in FY2016 only because of a \$350,000 grant received. Revenues thereafter are less than expenses. Rate increases are needed to continue to fund increasing operating and capital expenses.

Figure 3: Water Expense Projections



2.6 Water Enterprise Rate Scenarios & Revenue Requirements

Bartle Wells Associates developed four rate scenarios based on varying levels of capital funding to meet the utility's funding needs. BWA recommends maintaining the current rate structure, with the exception of merging boarding houses in the commercial customer category. BWA analyzed various scenarios of revenue requirement increases and recommends Scenario 3 – \$5.2 million SRF Loan.

2.6.1 Water Rate Scenarios

With input from City staff, BWA developed four scenarios (Scenarios 1-4) of rate increases, including a scenario where rates are not increased.

- Scenario 1: CPI Increases. This is to project what would happen if the City only increased rates by CPI.
- o Scenario 2: Pay As You Go. Revenue requirement increases solely based on rate increases.
- Scenario 3: \$5.2m SRF Loan (Recommended). Rate increases, in addition to \$5.2 million of SRF loans.
- Scenario 4: \$3.5m SRF Loan, \$1.7m Grants. Rate Increases, in addition to \$3.5 million of SRF loans and \$1.7 million in grants.

BWA recommends Scenario 3 in order to be conservative by not relying on grants, and meet reserve fund targets by FY2022.

2.6.2 Water Revenue Requirements: Cash Flow Projection

The water cash flow projections incorporate the latest information available as well as a number of reasonable and slightly conservative assumptions. Key assumptions include:

Growth and Water Demand Assumptions

- Projections assume 4.5 5% annual customer growth from FY2017 FY2020, with 3% growth thereafter.
- o Future water sales are projected to decrease by 10% from FY2015 consumption.

Revenue Assumptions

- The first rate increase will become effective on February 1, 2016. Rate increases thereafter will become effective annually on July 1 of each year. The City will adopt rate increases for the five year period from FY2016 through FY2021.
- Water rate revenues for FY2015 account for 73% of total water utility revenues. Other revenues include fees, standby and connection charges, grants, as well as other sources.
- Interest and connection revenues are conservative estimates based on input from City staff.
 The City anticipates significant growth in residential and commercial customers through FY2020.

Expense Assumptions

- Operating Expenses escalate at the annual rate of 3 4%.
- o Capital Improvement Program expenditures include \$3.4 million in projects through FY2021.

State Revolving Fund (SRF) Loan Estimate

Table 8 shows the SRF loan estimates for both Scenario 3 and Scenario 4. State Revolving Fund loans are low-cost loans from the Clean Water State Refunding Fund loan program from the State Water Resources Control Board (SWRCB). The SRF program offers low-cost financing set at roughly one half of the state's general obligation bond rate; current interest rates are below 2.0%. Debt service repayment starts one year after the project is completed. Debt repayment is typically secured by an agency's legal pledge to raise rates and fees as needed to repay debt service.

Table 8: SRF Loan Estimates City of Guadalupe Water and Wastewater Rate Analysis and Study

\$5.2 Million SRF*	\$3.5 Million SRF**
Est. at 2.0%	Est. at 2.0%
\$5,200,000	\$3,500,000
5,200,000	3,500,000
52,000	35,000
<u>105,000</u>	<u>71,000</u>
5,357,000	3,606,000
30	30
2.00%	2.00%
239,000	161,000
239,000	161,000
	\$5,200,000 \$5,200,000 52,000 105,000 5,357,000 30 2.00% 239,000

^{* \$5.2} million is based on total CIP from FY2016 - FY2025

Table 9 shows the cash flow projection for Scenario 3. The recommended annual rate increases beginning in FY2016 are needed to fund revenue requirements for annual operating and capital expenses and to meet reserve fund targets by the end of FY2022. The cash flow projections beyond FY2021 (Appendix A) show estimates of future rate increases for planning purposes only; actual future rate increases will be determined annually by the City during the budget process. Detailed ten-year water cash flows for each scenario are shown in Appendix A.

^{** \$3.5} million SRF is based on 2/3rds of total CIP from FY2016 - FY2025

¹ Some costs may not be eligible for SRF Loan funding & would require another funding source.

² Assumes steady gradual drawdown of loan funds over one year.

³ First debt service payment due one year following completion of project.

⁴ Total net interest rate estimated for financial planning purposes; actual rate may vary.

⁵ Agencies must set aside funds to meet the SRF Reserve Requirement at least 90 days prior to project completion date.

Table 9: Scenario 3 – SRF Loan City of Guadalupe Water and Wastewater Rate Analysis and Study

	Budget				Proje	cted		
Scenario 3: SRF Loan	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021
Assumptions								
Revenue Requirement Increase			3.0%	4.0%	4.0%	4.0%	4.0%	4.0%
CPI Adjustment	1.4%		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.0%	4.5%	4.5%	5.0%	5.0%	3.0%
Growth in Connection Fees***			0.0%	2.0%	2.0%	2.5%	2.5%	0.5%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning Water Fund Balance	249,121		249,121	626,319	736,536	702,140	781,001	1,019,589
OPERATING REVENUES								
Water Service Charge (1st half of year)	757,500		883,750	791,590	870,750	957,830	1,058,400	1,169,530
Water Service Charge (2nd half of year)	757,500	(growth)	659,658	870,750	957,830	1,058,400	1,169,530	1,268,940
Turn On/Off Fees	6,000	2%	6,000	6,120	6,240	6,360	6,490	6,620
Late Fees	47,000	2%	47,000	47,940	48,900	49,880	50,880	51,900
Meters	9,000	3%	9,000	9,270	9,550	9,840	10,140	10,440
Uncollectable Accounts	500	2%	500	510	520	530	540	550
Miscellaneous Income	400	2%	400	410	420	430	440	450
Interest Income	1,600		1,600	1,570	1,840	1,760	1,950	2,550
Subtotal Operating Revenues	1,579,500		1,607,908	1,728,160	1,896,050	2,085,030	2,298,370	2,510,980
CAPITAL REVENUES								
Grant	350,000		350,000	-	-	-	-	-
SRF Loan	-		-	773,000	562,000	579,000	886,000	913,000
DJ Farms Development Agreement	19,700		19,700	38,150	38,150	38,150	38,150	38,150
Water From New Development****	75,000		75,000	92,500	70,000	25,000	25,000	25,000
Water Connection Fees	10,000	(growth)	10,000	81,270	82,900	105,700	107,810	21,990
Standby-By Charges	40,000		40,000	38,000	36,000	34,000	32,000	30,000
Subtotal Capital Revenues	494,700		494,700	1,022,920	789,050	781,850	1,088,960	1,028,140
Total Revenues	2,074,200		2,102,608	2,751,080	2,685,100	2,866,880	3,387,330	3,539,120
EXPENSES								
Operating Expenses								
Personnel Services	146,637	4%	146,637	152,500	158,600	164,940	171,540	178,400
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940
Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790
Supplies & Services	1,093,765	3%	1,093,765	1,126,580	1,160,380	1,195,190	1,231,050	1,267,980
Other Financing Uses	356,600	3%	356,600	367,300	378,320	389,670	401,360	413,400
Water Purchase				98,650	98,650	98,650	98,650	98,650
Subtotal Operating Expenses	1,647,002		1,647,002	1,885,030	1,941,550	1,999,870	2,060,070	2,122,190
Water Capital Expenses								
Capital Outlay****	60,000	3%	60,000	772,500	562,280	579,150	886,340	912,930
SRF Debt Payments			-	-	239,000	239,000	239,000	239,000
Subtotal Capital Expenses	60,000		60,000	772,500	801,280	818,150	1,125,340	1,151,930
TOTAL EXPENSES	1,707,002		1,707,002	2,657,530	2,742,830	2,818,020	3,185,410	3,274,120
Total Net Revenues	367,198		395,606	93,550	(57,730)	48,860	201,920	265,000
Payback of General Fund Loan	10,000		10,000	16,667	23,334	30,001	36,668	43,334
Ending Water Fund Balance (All Funds)	626,319		654,727	736,536	702,140	781,001	1,019,589	1,327,923
Reserve Target	, i		,	•	•	•		
Operating Expense (25%)			411,750	471,260	485,390	499,970	515,020	530,550
Capital Expense Reserve			1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Target:			1,411,750	1,471,260	1,485,390	1,499,970	1,515,020	1,530,550
Reserve Targets Met:			NO	NO	NO	NO	NO	NO
* First rate in groups Feb 1st 2016; rates the reafter in				- · · ·				

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Assumes usage of 9 ccf.

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} Includes Beachside Cooler, Pioneer Apts., Guadalupe Court, potential Apio expansion and 10 acre feet per year

^{*****} From Water CIP. Only goes to FY21. Used nominal amount after that escalated.

Table 10 shows the revenue requirement increases for all of the scenarios. Scenario 2 has the highest increases due to capital improvements being funded through water service charge revenues, whereas Scenarios 3 and 4 has additional funding sources through State Revolving Fund (SRF) loans and grants.

Table 10: Water Scenarios Comparison City of Guadalupe Water and Wastewater Rate Analysis and Study

		Proposed						
Annual Revenue Requirement Increase	FY2016	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	
	F 12016	Feb 1	Jan 1	Jan 1	Jan 1	Jan 1	Jan 1	
Proposed Annual Revenue Requirement % Increases								
Scenario 1: No Rate Increases	-	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	
Scenario 2: Pay As You Go Increases	-	11.5%	11.5%	11.5%	5.5%	5.5%	1.5%	
Scenario 3: \$5.2m SRF Loan, No Grants	-	4.5%	5.5%	5.5%	5.5%	5.5%	5.5%	
Scenario 4: \$3.5m SRF Loans, \$1.7 Grants	-	5.5%	5.5%	4.5%	4.5%	4.5%	1.5%	
Proposed Averaged Monthly Bill								
Scenario 1: No Rate Increases	\$32.83	\$33.30	\$33.84	\$34.29	\$34.83	\$35.37	\$35.91	
Scenario 2: Pay As You Go Increases	\$32.83	\$36.63	\$40.86	\$45.45	\$47.97	\$50.58	\$51.30	
Scenario 3: \$5.2m SRF Loan, No Grants	\$32.87	\$34.29	\$36.18	\$38.16	\$40.23	\$42.48	\$44.82	
Scenario 4: \$3.5m SRF Loans, \$1.7 Grants	\$32.83	\$34.63	\$36.45	\$38.02	\$39.65	\$41.35	\$41.95	

2.7 Cost of Service

Water utilities have used a wide range of approaches or perspectives for allocating and recovering their costs for providing service, and these costs are most commonly recovered from a combination of fixed and variable charges. The percentage of revenues derived from the fixed and variable charges varies for each agency and should be proportional to each system's expenditures and must not exceed the cost of providing service. A higher level of fixed charges provides better revenue stability and less dependence on variable sales. On the other hand, higher dependence on volumetric revenues provides a better conservation incentive.

Depending on perspective, the same costs can reasonably be allocated 100 percent to fixed revenue recovery, 100 percent to variable rate recovery, or to some combination of the two. For example, debt service used to fund water treatment facilities can legitimately be treated as a) a fixed annual cost that should be recovered from fixed charges, b) a cost related to providing water supply to meet customer demand and therefore a cost that should be recovered from variable rates, or c) a

cost that can be recovered from both fixed and variable rates in recognition of the two alternative perspectives.

Many of the City's costs are variable costs that vary by water consumption, such as the State Water purchases, as well as costs for personnel and utilities. However, a portion of these variable costs can reasonably be apportioned to fixed rate recovery, and vice-versa with fixed costs. For example, a share of the fixed cost of salaries related to water production can reasonably be recovered from usage-based charges as these costs are incurred to provide water supply to meet customer demand. Likewise, debt service payments may be fixed annual costs, but it is reasonable to recover some of these costs from usage-based rates as the costs are incurred to fund infrastructure that will improve the water delivery system.

While there is no single correct approach, BWA believes that costs should be allocated within a reasonable range that reflects both a) underlying cost causation, to the extent such causation can reasonably be determined or estimated, and b) the policy preferences of the agency in cases where a range of reasonable approaches can be justified.

The water utility currently collects approximately 34% of total water service charges revenues from fixed charges and 66% from the variable charges. BWA recommends keeping this ratio at approximately 35% fixed and 65% variable based on the cost allocation in Table 11. Taking a five-year average (FY2017 through FY2021), Table 11 shows a breakdown of the water utility's operating, capital, reserve contributions expenses based on input from City staff. As shown, the majority of the City's water system's costs are variable. Agencies that purchase water tend to have a higher allocation of variable costs compared to fixed costs.

Table 11: Allocation of Water System Expenses to Fixed & Variable Costs City of Guadalupe
Water and Wastewater Rate Analysis and Study

	Projected 5-Year	Cost Recovery %		Cost Recovery \$	
	(FY 2017-21) Avg	Fixed	Variable	Fixed	Variable
Operating Expenses					
Personnel Services	\$165,196	50%	50%	\$82,598	\$82,598
Utilities Director (50%)	70.408	50%	50%	35.204	35.204
FT Operator (50%) less current PT	37,914	75%	25%	28,436	9,479
Additional FT Operator (50%)	43,328	50%	50%	21,664	21,664
Supplies & Services	1,196,236	15%	85%	179,435	1,016,801
Other Financing Uses	390,010	50%	50%	195,005	195,005
Water Purchase	98,650	10%	90%	9,865	88,785
Subtotal Operating Expenses	2,001,742			552,207	1,449,535
			Percent of Total	28%	72%
Water Capital Expenses					
Capital Outlay	742,640	50%	50%	371,320	371,320
Subtotal Personnel Expenses	742,640			371,320	371,320
·	·		Percent of Total	50%	50%
Total 5-Year Avg Water Expenses	2,744,382			923,527	1,820,855
			Percent of Total	34%	66%
Current Fixed/Variable Breakdown				34%	66%
Recommended Fixed/Variable Breakdov	vn			35%	65%

2.8 Water Rate Structure Recommendations

BWA evaluated the City's water rate structure for equity and compliance with the substantive provisions of Proposition 218. The City's current meters are not assigned according to customer demand, for example a 4" meter might only be used by a customer who has demands that resemble a 1" meter. Until the meters are assigned according to customer demand, BWA recommends maintaining the current rate structure. This is to ensure that customers who might have meter sizes larger than their use do not pay over the capacity they are actually using.

2.8.1 Fixed Service Charge Recommendations

The current fixed charges are based on the cost of 6 units of water. All meter sizes pay the same fixed price. Because of this, meter charge ratios are not aligned with those recommended by the AWWA. The AWWA has established a set of capacity ratios using the maximum safe flow of various sizes of meters relative to the base or smallest meter size. For example, based on the AWWA meter

capacity ratios, a customer that has a 2-inch meter has 5.33 times the capacity equivalency of a customer with a 3/4-inch meter. (A 2-inch meter has a safe operating capacity of 160 gallons per minute (gpm) compared to a 3/4-inch meter which has a safe operating capacity of 30 gpm).

These meter capacity ratios provide a basis for charging customers proportional to the capacity that is reserved for them in the water system. Larger meters have the ability to place a greater demand on the water system and are therefore, charged based on that potential demand. Meter ratios are widely used in California rate setting and are consistent with meter ratios adopted by the California Public Utility Commission for private water companies. Table 12 shows the recommended meter ratios determined by the AWWA.

Table 12: AWWA Meter Ratios City of Guadalupe Water and Wastewater Rate Analysis and Study

Meter Sizes	Proposed AWWA Meter Ratio
3/4 inch	1.00
1 inch	1.67
1-1/2 inch	3.30
2 inch	5.33
3 inch	10.00
4 inch	16.67
6 inch	33.33
8 inch	53.33
10 inch	76.67

Source: AWWA M1 Manual, Principals of Water Rates, Fees, and Charges, Sixth Edition, 2012, Table B-1

2.8.2 Water Variable Charge

Maintain Uniform Tiered Structure

Water charges are currently billed the same to all customers, and are uniform tiered. After a customer uses the allotted 6 units that are included in the base charge, each additional unit is charged per ccf (hundred cubic feet). BWA recommends the City maintain this variable rate structure.

2.8.3 Water Rate Derivation

Variable Charges

Table 13 shows the derivation of variable costs for FY2016 – FY2021, based on a fixed/variable 35%/65% allocation. The allocations for each year of the projected five years of revenue requirement increases (six total) are derived. The total variable revenue requirement is then divided by the total projected consumption (which excludes the 6 ccf assumed per customer in the fixed charge), to determine the proposed uniform rate.

Fixed Charge

The derivation for fixed rates through FY2021 is shown on Table 13, which has been determined sufficient to meet revenue requirements. The fixed charge includes 6 ccf of water, and is derived by multiplying the variable rate by six.

Table 13: Derivation of Proposed Rates City of Guadalupe Water and Wastewater Rate Analysis and Study

Scenario 3 - Recommended 35/65 Fixed/Variable Sp	Current		Proposed Rate Increases					
Scenario 5 - Neconiniended 55/65 Fixed/Variable 5p	FY2016	2/1/2016	1/1/2017	1/1/2018	1/1/2019	1/1/2020	1/1/2021	
		0.00/	. ==/	. = 0 /	= 00/	= 00/	2.00/	
Growth Assumption		0.0%	4.5%	4.5%	5.0%	5.0%	3.0%	
CPI Increase %		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	
Rate Increase %		3.0%	4.0%	4.0%	4.0%	4.0%	4.0%	
Total Annual Service Charge Revenue Requirement	\$1,515,000	\$1,583,180	\$1,741,500	\$1,915,660	\$2,116,800	\$2,339,060	\$2,537,880	
Recommended Allocation								
Fixed 35%	\$530,250	\$554,113	\$609,525	\$670,481	\$740,880	\$818,671	\$888,258	
Variable 65%	\$984,750	\$1,029,067	\$1,131,975	\$1,245,179	\$1,375,920	\$1,520,389	\$1,649,622	
Total 100%	\$1,515,000	\$1,583,180	\$1,741,500	\$1,915,660	\$2,116,800	\$2,339,060	\$2,537,880	
WATER CONSUMPTION CHARGE - UNIFORM RATE - N	Structure Change							
Total Variable Revenue Requirement	\$984,750	\$1,029,067	\$1,131,975	\$1,245,179	\$1,375,920	\$1,520,389	\$1,649,622	
Consumption (not including fixed 6 units), ccf	270,000	270.000	282,150	294.847	309,589	325,069	334,821	
	,,,,,	0.00%	4.50%	4.50%	5.00%	5.00%	3.00%	
Proposed Uniform Rate (adjusted for rounding)	\$3.65	\$3.81	\$4.02	\$4.24	\$4.47	\$4.72	\$4.98	
Fixed Charge - 6 ccf water	\$21.92	\$22.86	\$24.12	\$25.44	\$26.82	\$28.32	\$29.88	
Average Monthly Bill - 9 ccf water	\$32.87	\$34.29	\$36.18	\$38.16	\$40.23	\$42.48	\$44.82	
% Increase		4.32%	5.51%	5.47%	5.42%	5.59%	5.51%	

2.9 Proposed Water Rates

Table 14 shows the proposed monthly water rates. Under Proposition 218, the rates shown below are the maximum rates that the City can enact each year. The City can adopt rates that are lower than those shown based upon an annual review of the water utility's finances to ensure that revenues are in line with expenses.

Table 14: Proposed Monthly Fixed and Variable Charges City of Guadalupe Water and Wastewater Rate Analysis and Study

	Current	Proposed						
Proposed Water Rates: Scenario 3	FY2016	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	
	F12010	Feb 1	Jan 1	Jan 1	Jan 1	Jan 1	Jan 1	
Basic Rate*	\$21.92	\$22.86	\$24.12	\$25.44	\$26.82	\$28.32	\$29.88	
Each Additional Unit/ccf	\$3.65	\$3.81	\$4.02	\$4.24	\$4.47	\$4.72	\$4.98	
Average Monthly Bill (9 ccf use)	\$32.87	\$34.29	\$36.18	\$38.16	\$40.23	\$42.48	\$44.82	

2.10 Ending Fund Balances

Figure 4 compares the City's ending fund balance of all reserves. Without a rate increase, the water reserve fund will be depleted by FY2017. Scenario 3 (proposed rate increases) will restore the ending fund balances, allowing funds to reach their targets by FY2022.

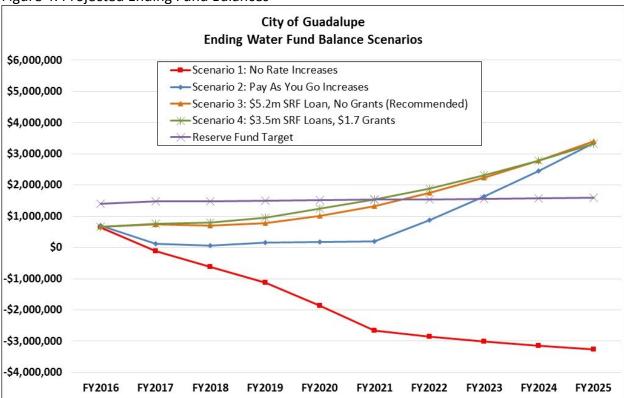


Figure 4: Projected Ending Fund Balances

2.11 Regional Water Rate Survey

Figure 5 compares the City's current and proposed monthly rates to those of other regional agencies for a single family home using 9 ccf of water (monthly), the City's average single family monthly consumption. The City's current water rates are lower than nearly all other regional agencies, and the City would remain one of the lowest with the proposed rates for FY2016 Scenario 3. Figure 5 is shown for comparative purposes only.

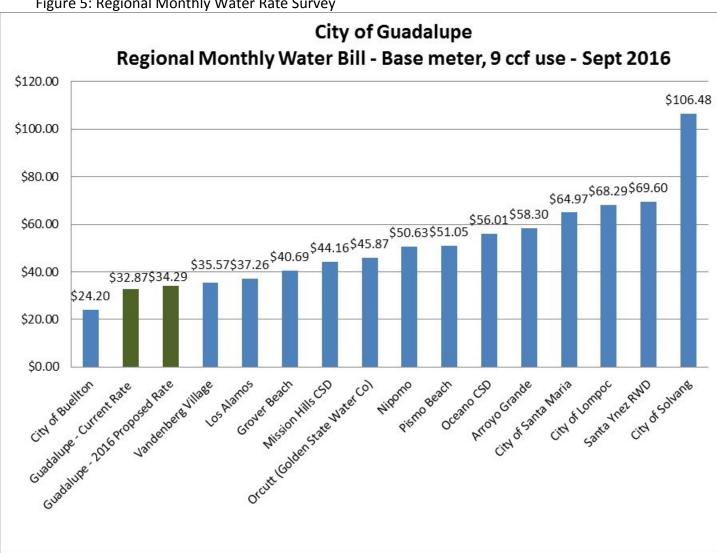


Figure 5: Regional Monthly Water Rate Survey

3 WASTEWATER FINANCES & RATES

3.1 Wastewater Financial Overview

Bartle Wells Associates conducted an independent evaluation of the City's wastewater system finances. Key observations include:

- The current sewer rate for residential customers is a fixed monthly rate. Boarding house rates are 50% of residential. For commercial customers there is both a fixed rate (which includes 5 units ccf) and a variable rate for each unit thereafter.
- The City currently serves nearly 2,000 customers. The majority are residential (95%).
- The City is assuming a 7% decrease in sewer charge revenues for FY2016: 5% from water use reduction, and another 2% reduction from the elimination of the previously planned Franchise Fee.
- Current sewer operating expenses are \$1,086,673 for FY2016.
- Over the next six years the City has \$7 million in capital improvements planned.
- The cash balance of the sewer reserves at the end of FY2015 was negative \$715,653. The estimated cash balance at the end of FY2016 is negative \$622,576.
- BWA assumed two different State Revolving Fund (SRF) loan scenarios. The \$9 million scenario requires more funding than the \$6 million scenario because it assumes less grant funding. The four scenarios include: Scenario 1 where rates are only increased by CPI; Scenario 2 Pay-as-you-go where revenue requirement increases are funded solely by rates; Scenario 3 assumes \$9 million in SRF loans, along with rate increases; and Scenario 4 assumes \$6 million in SRF loans and \$3 million in grants, along with rate increases.
- Beginning in FY2017, the City anticipates significant growth, which is conservatively assumed between 3 5% a year through FY2025.
- BWA developed reserve fund targets consisting of 25% of operating expenses in addition to \$1 million capital expense reserve. Scenario 3 is expected to reach the target by FY2022.
- BWA recommends Scenario 3, and to merge boarding houses in the commercial classification.
 There are currently only three boarding house accounts.
- The recommended fixed rate is derived by taking each classification's fixed revenue requirement and dividing it by the assumed accounts for each year. The variable rate is derived by dividing the variable revenue requirement by the estimated additional units of flow. The fixed commercial charge continues the current structure of including 5 units (ccf) of flow.
- The City will continue to have an average monthly sewer bill at the midrange of the spectrum compared to other agencies in the region.

3.2 Current Monthly Wastewater Rates

Table 15 shows the City's current monthly wastewater rates. The current sewer rate for single-family residential customers is a fixed monthly rate of \$34.97. Boarding house rates are 50% of residential. For commercial customers there is both a fixed rate (which includes 5 units ccf) and a variable rate for each unit thereafter.

Table 15: Current Monthly Wastewater Rates City of Guadalupe Water and Wastewater Rate Analysis and Study

Monthly Wastewater Rates	
Single Family Residential	\$34.97
Boarding House (Per Room)	\$17.19
Commercial (includes Multi-family)	
Basic Rate (Up to 5 Units)	\$34.97
Each Additional Unit (ccf)	\$1.47

3.3 Current Wastewater Accounts

Table 16 shows current wastewater customer accounts. The majority (95%) are residential customers.

Table 16: Current Wastewater Customer Accounts City of Guadalupe

Water and Wastewater Rate Analysis and Study

User Type	# of Users		Percentage of Total Users
Single Family Residential	1,820		95%
Boarding Houses	3	20	0%
Commercial	87	36	5%
Additional Units (ccf)	<u>-</u> 1.010	15,000	<u>-</u> 100%
	Single Family Residential Boarding Houses Boarding House Rooms Commercial	Single Family Residential 1,820 Boarding Houses 3 Boarding House Rooms - Commercial 87	Single Family Residential 1,820 Boarding Houses 3 Boarding House Rooms - 38 Commercial 87 Additional Units (ccf) - 15,000

3.4 Financial Challenges / Key Drivers of Rate Increases

Going forward, the City's wastewater enterprise is facing a number of financial challenges that will require the City to continue with scheduled rate increases. Key drivers of scheduled wastewater rate increases are summarized below.

3.4.1 Capital Improvements / Aging Infrastructure

The City has capital improvement program (CIP) projects in FY2017 and FY2018 that total over \$3 million, which will put a strain on the Sewer fund negative \$700,000 at the beginning of FY2016. The City's six-year CIP projections from FY2016 through FY2021 are over \$6 million. There are no capital improvements planned in FY2016.

Figure 6 shows a summary of the projected wastewater system CIP costs through FY2021. A detailed CIP list is included in Appendix B.

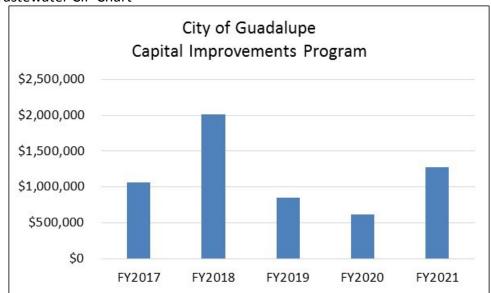


Figure 6: Wastewater CIP Chart

3.4.2 Ongoing Operating Cost Inflation

The City faces ongoing operating cost inflation due to annual cost increases in personnel, supplies and services, etc. Water and wastewater industry operating cost inflation has historically been significantly higher than the Consumer Price Index (CPI) for consumer goods and services. Since 1996, the average annual CPI for all urban customers has been 2.3%, whereas the ENR-CCI 20-city average has been 3.1%. Appendix B includes a detailed description of wastewater expense projections through FY2025.

3.4.3 Wastewater Reserve Funds

Maintaining a prudent minimal level of fund reserves provides a financial cushion for dealing with unanticipated expenses, revenue shortfalls, and non-catastrophic emergency capital repairs. The fund reserve targets will escalate over time as the wastewater utility's revenues and expenses gradually increase in future years. The City's current reserves are negative \$715,653 at the beginning of FY2016. This is largely due to the unexpected TrusPro sewer line failure in 2013.

Currently the City does not have reserve fund targets. Table 17 shows BWA's recommend water reserve fund targets. These targets were developed with input from City staff as well as generally held industry standards. BWA recommends creating an Operating Reserve, which holds 25%, or 3 months, of operating and maintenance expenses; and a Capital Expense Reserve to cover the following year's capital improvement projects, or at least \$1 million.

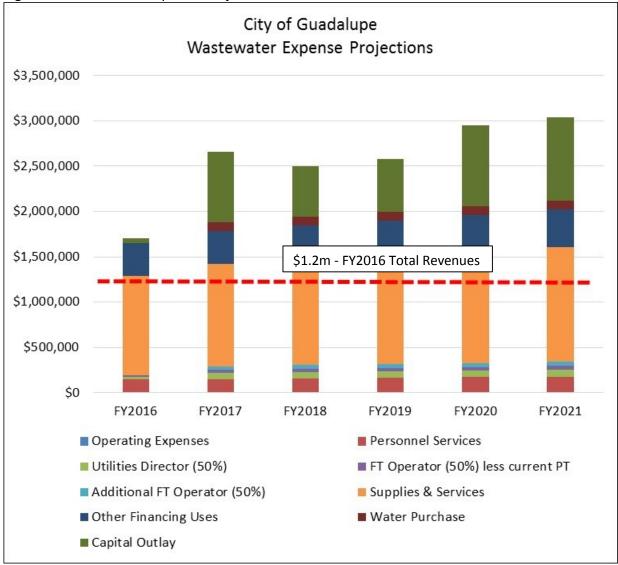
Table 17: Wastewater Reserve Funds City of Guadalupe Water and Wastewater Rate Analysis and Study

Reserve Type	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Operating Expense Reserve (25%)	271,670	304,210	273,840	282,990	292,460	302,250
Capital Reserve	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Target:	1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250

3.4.4 Wastewater Expense Projections

Figure 7 shows the ten-year wastewater expense projections. Expenses are above total wastewater revenues.

Figure 7: Wastewater Expense Projections



3.5 Wastewater Enterprise Rate Scenarios & Financial Projections

The wastewater cash flow projections incorporate the latest information available as well as a number of reasonable and slightly conservative assumptions. BWA recommends maintaining the current rate structure, though merging boarding houses into the commercial customer category. BWA analyzed various scenarios of revenue requirement increases and recommends Scenario 3 – \$9 million SRF Loan. Key assumptions include:

Growth and Revenue Assumptions

- Projections assume 4.5 5% annual customers growth from FY2017 FY2020, with 3% growth thereafter.
- o Future additional unit sales are projected to decrease by 10% from FY2015 consumption.

Expense Assumptions

- Operating & Maintenance Expenses are based on the FY2016 Budget and escalate at the annual rate of 5% for personnel/benefits and utilities, with other expenses escalated at 3% to account for inflation.
- Capital Improvement Program expenditures include \$9 million in projects from FY2016 –
 FY2021.

State Revolving Fund (SRF) Loan Estimate

Table 18 shows the SRF loan estimates for both Scenario 3 and Scenario 4. State Revolving Fund loans are low-cost loans from the Clean Water State Refunding Fund loan program from the State Water Resources Control Board (SWRCB). The SRF program offers low-cost financing set at roughly one half of the state's general obligation bond rate; current interest rates are below 2.0%. Debt service repayment starts one year after the project is completed. Debt repayment is typically secured by an agency's legal pledge to raise rates and fees as needed to repay debt service.

Table 18: SRF Loan Estimates
City of Guadalupe
Water and Wastewater Rate Analysis and Study

	\$9m SRF	\$6m SRF*
	Est. at 2.0%	Est. at 2.0%
Funding Target	\$8,800,000	\$6,000,000
STANDARD 30-YEAR SRF LOAN		
Eligible Project Costs ¹	8,800,000	6,000,000
Accrued Interest During Construction ²	88,000	60,000
Accrued Interest for One Year After Completion ³	<u>178,000</u>	121,000
Total Loan Amount	9,066,000	6,181,000
Loan Terms		
Term (years)	30	30
Interest Rate ⁴	2.00%	2.00%
Annual Loan Payment	405,000	276,000
Reserve Fund Requirement ⁵ Equal to Annual Debt Service	405,000	276,000

^{*\$6}m SRF, \$3m assumed in grant funding

Table 19 shows the cash flow projection with no rate increases. As mentioned previously, the wastewater fund currently has a negative balance and will continue doing so until FY2018 even with significant borrowing and rate increases. The wastewater fund is projected to meet reserve targets by FY2022. Appendix B shows an extended (ten-year) version of the cash flow.

¹ Some costs may not be eligible for SRF Loan funding & would require another funding source.

² Assumes steady gradual drawdown of loan funds over one year.

³ First debt service payment due one year following completion of project.

⁴ Total net interest rate estimated for financial planning purposes; actual rate may vary.

⁵ Agencies must set aside funds to meet the SRF Reserve Requirement at least 90 days prior to project completion date

Table 19: Wastewater Cash Flow Projection – Scenario 3: \$9m SRF Loan City of Guadalupe
Water and Wastewater Rate Analysis and Study

Commis 2: Com CDE Loon	Budget						Proje	cted				
Scenario 3: \$9m SRF Loan	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
<u>Assumptions</u>												
Rate Increase*	28.2%		15.0%	10.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment			1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.00%	4.50%	4.50%	4.50%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Connection Fees***			0.00%	2.00%	2.00%	2.00%	1.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning WW Fund Balance	(715,653)		(715,653)	(550,388)	(524,188)	(197,728)	220,082	667,132	1,104,482	1,583,372	2,106,762	2,677,152
OPERATING REVENUES												
Sewer Service Charge (1st half of year)	525,000		612,500	611,630	709,490	787,530	834,780	880,690	920,320	961,730	1,005,010	1,050,240
Sewer Service Charge (2nd half of year)	525,000	(growth)	509,688	709,490	787,530	834,780	880,690	920,320	961,730	1,005,010	1,050,240	1,097,500
Set Up Fees	3,500	2%	3,500	3,570	3,640	3,710	3,780	3,860	3,940	4,020	4,100	4,180
Late Fees	27,000	2%	27,000	27,540	28,090	28,650	29,220	29,800	30,400	31,010	31,630	32,260
Subtotal Operating Revenues	1,080,500		1,152,688	1,352,230	1,528,750	1,654,670	1,748,470	1,834,670	1,916,390	2,001,770	2,090,980	2,184,180
CAPITAL REVENUES												
SRF	-			1,094,000	2,134,000	928,000	687,000	1,482,000	1,379,000	350,000	361,000	371,000
DJ Farms Develop. Agreement	93,750		93,750	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500
Wastewater Connection Fees***	5,500	(Growth)	5,500	108,390	110,550	112,760	86,260	29,330	29,920	30,510	31,130	31,750
Subtotal Capital Revenues	99,250		99,250	1,389,890	2,432,050	1,228,260	960,760	1,698,830	1,596,420	568,010	579,630	590,250
Total Revenues	1,179,750		1,251,938	2,742,120	3,960,800	2,882,930	2,709,230	3,533,500	3,512,810	2,569,780	2,670,610	2,774,430
EXPENSES												
Operating Expenses												
Personnel Services	213,903	4%	213,903	222,460	231,360	240,610	250,230	260,240	270,650	281,480	292,740	304,450
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	404,070	3%	404,070	416,190	428,680	441,540	454,790	468,430	482,480	496,950	511,860	527,220
Other Financing Uses	418,700	3%	418,700	438,170	289,700	298,390	307,340	316,560	326,060	335,840	345,920	356,300
Subtotal Operating Expenses	1,086,673		1,086,673	1,216,820	1,095,340	1,131,960	1,169,830	1,208,990	1,249,500	1,291,390	1,334,720	1,379,540
Wastewater Capital Expenses												
Capital Outlay****	-	3%	-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
SRF loan repayments				405,000	405,000	405,000	405,000	405,000	405,000	405,000	405,000	405,000
Subtotal Capital Expenses	-		-	1,499,100	2,539,000	1,333,160	1,092,350	1,887,160	1,784,420	755,000	765,500	776,300
TOTAL EXPENSES	1,086,673		1,086,673	2,715,920	3,634,340	2,465,120	2,262,180	3,096,150	3,033,920	2,046,390	2,100,220	2,155,840
Total Net Revenues	93,077		165,265	26,200	326,460	417,810	447,050	437,350	478,890	523,390	570,390	618,590
Ending WW Fund Balance (All Funds)	(622,576)		(550,388)	(524,188)	(197,728)	220,082	667,132	1,104,482	1,583,372	2,106,762	2,677,152	3,295,742
Reserve Targets												
Operating Expense (25%)	-		271,670	304,210	273,840	282,990	292,460	302,250	312,380	322,850	333,680	344,890
Capital Expense Reserve	-		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Targets:	-		1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250	1,312,380	1,322,850	1,333,680	1,344,890
Reserve Targets Met:			NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
* First rate increase Feb 1st 2016; rates th	ereafter increase	d on Ian 1st	-									

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Residential Flat Rate

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} From Sewer CIP. Only goes to FY22. Used nominal amount after that escalated.

3.6 Wastewater Rate Projections

BWA developed four scenarios which include: Scenario 1 where rates are only increased by CPI; Scenario 2 Pay-as-you-go where revenue requirement increases are funded solely by rates; Scenario 3 assumes \$9 million in SRF loans, along with rate increases; and Scenario 4 assumes \$6 million in SRF loans and \$3 million in grants, along with rate increases.

3.6.1 Current Wastewater Rate Structure

Bartle Wells Associates conducted an independent analysis of the City's current wastewater rate structure. Based on an evaluation of rate alternatives and input from City staff, no major modifications are recommended to the City's residential rate structure, besides merging boarding houses into the commercial customer category. Table 15 shows the current wastewater rates.

3.7 Proposed Wastewater Rates

BWA recommends increasing rates in order to meet revenue requirements. Table 20 shows the revenue requirement increases for all of the scenarios. Scenario 2 has the highest increases due to capital improvements being funded through wastewater service charge revenues, whereas Scenarios 3 and 4 has additional funding sources through State Revolving Fund (SRF) loans and grants.

Table 20: Wastewater Scenarios Comparison City of Guadalupe

	Current			Prop	osed		
Annual Revenue Requirement Increase	FY2016	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
	1 12010	Feb 1	Jan 1				
Proposed Annual Revenue Requirement % Increases							
Scenario 1: No Rate Increases	-	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Scenario 2: Pay As You Go Increases	-	31.5%	31.5%	21.5%	0.0%	0.0%	0.0%
Scenario 3: \$9m SRF Loan, No Grants	-	16.5%	11.5%	6.5%	1.5%	1.5%	1.5%
Scenario 4: \$6m SRF Loans, \$3m Grants	-	11.5%	8.5%	5.5%	1.5%	1.5%	1.5%
Proposed Averaged Monthly Bill							
Scenario 1: No Rate Increases	\$35.49	\$35.49	\$36.03	\$35.49	\$36.03	\$36.57	\$37.12
Scenario 2: Pay As You Go Increases	\$35.49	\$45.99	\$60.47	\$73.47	\$73.47	\$73.47	\$73.47
Scenario 3: \$9m SRF Loan, No Grants	\$35.49	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
Scenario 4: \$6m SRF Loans, \$3m Grants	\$35.49	\$38.99	\$42.31	\$44.63	\$45.30	\$45.98	\$46.67

BWA recommends Scenario 3, which assumes \$9 million of SRF loans and no grants. The proposed rate increases are shown on Table 21. Under Proposition 218, the wastewater rates shown on Table 21 are the maximum rates that the City can enact each year. The City can adopt rates that are lower than those shown based upon an annual review of the wastewater utility's finances to ensure that revenues are in line with expenses.

Table 21: Proposed Wastewater Rate Increases City of Guadalupe Water and Wastewater Rate Analysis and Study

			Propos	ed		
Proposed Wastewater Rates	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
	Feb 1	Jan 1				
Single Family Residential	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
Commercial*						
Basic Rate (Up to 5 Units)	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
Each Additional Unit (ccf**)	\$1.71	\$1.91	\$2.03	\$2.06	\$2.10	\$2.13
Average Single Family Residential Monthly Bill	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
\$ Increase	<i>\$5.77</i>	<i>\$4.69</i>	<i>\$2.95</i>	<i>\$0.73</i>	<i>\$0.74</i>	\$0.75
% Increase	16.5%	11.5%	6.5%	1.5%	1.5%	1.5%

^{*}Now includes Boarding Houses and Multi-Family

3.7.1 Wastewater Rate Derivation

The current monthly wastewater rate is not based on an EDU assignment calculation that incorporates a customer's flow, biochemical oxygen demand (BOD) and suspended solids (SS). BWA recommends that once this data becomes more readily available to reevaluate and incorporate this additional data into the rate structure.

The proposed rates are developed by determining the total revenue required, and dividing the revenue requirements by each customer classification or average units (ccf). Table 22 shows the derivations of the proposed rates of Scenario 3.

^{**}ccf = 100 cubic feet (748 gallons)

Table 22: Scenario 3 Rate Derivation City of Guadalupe Water and Wastewater Rate Analysis and Study

Communic 2	Current			Proposed Ra	te Increases	;	
Scenario 3	FY2016	2/1/2016	1/1/2017	1/1/2018	1/1/2019	1/1/2020	1/1/2021
Revenue % Requirement Increase (Rate + CPI)	-	16.5%	11.5%	6.5%	1.5%	1.5%	1.5%
Growth % Increase	-	0.00%	4.50%	4.50%	4.50%	4.00%	3.00%
Revenue Requirement							
Total	\$1,050,000	\$1,122,188	\$1,321,120	\$1,497,020	\$1,622,310	\$1,715,470	\$1,801,010
Revenue Requirement (1st half of year)	\$525,000	\$612,500	\$611,630	\$709,490	\$787,530	\$834,780	\$880,690
Revenue Requirement (2nd half of year)	\$525,000	\$509,688	\$709,490	\$787,530	\$834,780	\$880,690	\$920,320
Davidsouted							
Residential	¢204 072	Ċ44F F10	Ċ4C4 001	ĆE 41 CO1	¢c02.0C1	¢C2C 201	¢cc= 204
Revenue Requirement (1st half of year)	\$381,872	\$445,518	\$464,901	\$541,691	\$602,861	\$636,381	\$665,304
Revenue Requirement (2nd half of year)	\$381,872	\$370,734	\$518,365	\$576,901	\$611,904	\$645,926	\$675,284
Commercial*							
Revenue Requirement (1st half of year)	\$18,884	\$22,031	\$22,990	\$26,787	\$29,812	\$31,469	\$32,900
Revenue Requirement (2nd half of year)	\$18,884	\$18,333	\$25,633	\$28,528	\$30,259	\$31,941	\$33,393
Commercial Additional Units							
Revenue Requirement (1st half of year)	\$120,257	\$144,951	\$123,739	\$141,012	\$154,857	\$166,930	\$182,486
Revenue Requirement (2nd half of year)	\$120,257	\$120,620	\$165,492	\$182,101	\$192,617	\$202,822	\$211,643
Accounts							
Residential	1,820	1,820	1,902	1,987	2,077	2,160	2,225
Residential	1,020	1,020	1,302	1,367	2,077	2,100	2,223
Commercial*							
Basic Rate (Up to 5 ccf Units)	90	90	94	98	103	107	110
Additional Units (ccf) (per month)	13,714	13,714	14,331	14,976	15,650	16,276	16,764
Monthly Rate							
Residential	624.07	624.07	ć 40 7 4	645.40	Ć 40. 20	ć 40 40	Ć40.04
Residential (1st half of year)	\$34.97	\$34.97	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84
Residential (2nd half of year)	\$34.97	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
<u>Commercial*</u>							
Basic Rate (Up to 5 Units) (1st half of year)	\$34.97	\$34.97	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84
Basic Rate (Up to 5 Units) (2nd half of year)	\$34.97	\$40.74	\$45.43	\$48.38	\$49.10	\$49.84	\$50.59
Each Additional Unit (1st half of year)	\$1.47	\$1.47	\$1.71	\$1.91	\$2.03	\$2.06	\$2.10
Each Additional Unit (2nd half of year)	\$1.47	\$1.71	\$1.91	\$2.03	\$2.06	\$2.10	\$2.13

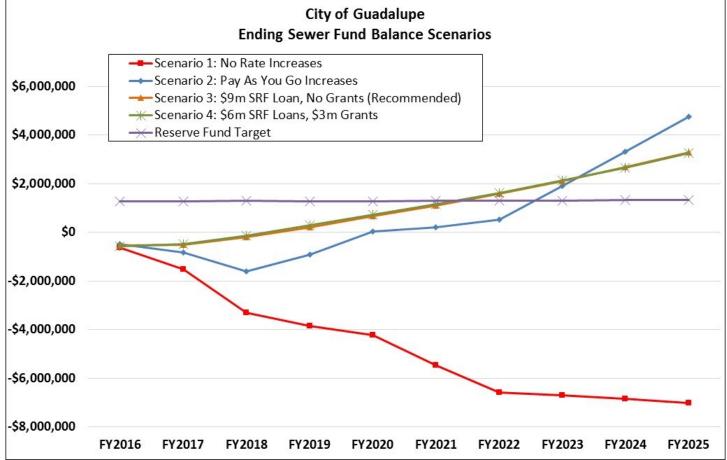
^{*}Boarding houses now included in commecial

3.8 Ending Fund Balances

Figure 8 chart compares the ending fund balance of all wastewater reserves. As shown, Scenario 3 reaches the reserve fund target by FY2022.

Figure 8: Wastewater Ending Fund Balance

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3.9 Regional Wastewater Rate Survey

For comparison purposes, Figure 9 shows the City's current and proposed wastewater rates relative to those of other regional agencies for a single family home paying a flat residential rate. The City's residential wastewater charges will remain in the midrange for the region.

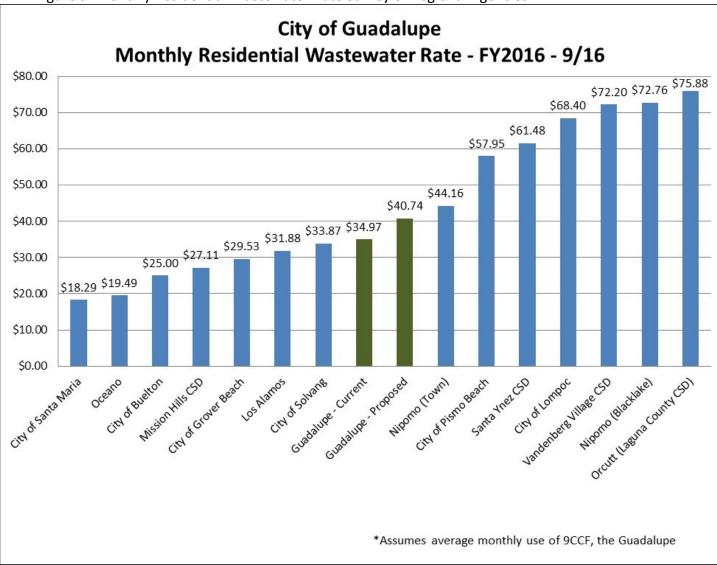


Figure 9: Monthly Residential Wastewater Rate Survey of Regional Agencies

APPENDIX A

Water Rate Study Tables

Table 23: Water Expenses City of Guadalupe Water and Wastewater Rate Analysis and Study

	Budget*
Water Operating Expenses	FY2016
Personnel Services:	
Salaries-Regular	\$76,305
Overtime	12,814
Utilities Director (Split w/ Wastewater)	32,500
FT Operator (Split w/ Wastewater)	17,500
Retirement-Pers	18,125
FICA/Medicare	7,917
Workers' Compensation	4,729
Medical/Life Insurance	10,856
Other Benefits	14,366
Dental Insurance	1,326
Vision Insurance	199
Supplies and Services:	
Utilities	90,000
Communications	5,000
Office Supplies and Postage	10,000
Advertising	2,000
Business Expense and Trng	500
Memberships, Dues & Subs	500
Equipment Maintenance	1,000
Facilities Maintenance	1,000
Vehicle Maintenance	2,000
Equipment Replacement	2,500
Meters	25,000
Operating Supplies & Exp.	45,000
State Water	751,000
Fuel & Lubricants	5,000
Bank Service Charges	1,200
Professional Services	75,000
Equipment Rental	1,000
Lease	200
Liability Insurance	40,865
Services by Other Agencies	35,000
Other Financing Uses:	33,000
Debt Service Principal	36,000
Debt Service Interest	53,000
Lease Purchase	
Transfer to General Fund	13,000
	251,600
Write-Offs	3,000
Total Operating Expenses:	1,647,002

Source: Water Operating with Eliminated Franchise Fee

^{*}Includes New Staff Expenses

Table 24: Detailed Water CIP City of Guadalupe Water and Wastewater Rate Analysis and Study

CIP ProjectionsWater	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	Total
Bonita Reservoir & Pump Station Rehab	-	-	-	-	\$282,500	\$282,500	\$565,000
Kermit McKenzie Water Main Upgrade	-	-	125,000	125,000	85,000	85,000	420,000
Mary Buren Water Main Upgrade		750,000	100,000	100,000	-	-	950,000
Tognazzini Water Main Upgrade	-	-	-	-	150,000	150,000	300,000
Escalante Water Main Upgrade	-	-	-	-	145,000	145,000	290,000
South Obispo Water Main Upgrade & Ext.	60,000	-	185,000	185,000	-	-	430,000
8th Street Water Line Extension	-	-	-	-	45,000	45,000	90,000
North Obispo Pipe Upgrade	<u> </u>		120,000	120,000	80,000	80,000	400,000
TOTALS*	60,000	750,000	530,000	530,000	787,500	787,500	3,445,000
* Expressed in 2015 dollars.					Six Yea	ır Average:	574,167

Table 25: Water Cash Flow – Scenario 1: CPI Increases City of Guadalupe Water and Wastewater Rate Analysis and Study

	Budget						Proj	ected			-	
Scenario 1: CPI Increases	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Revenue Requirement Increase			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment	1.4%		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.0%	4.5%	4.5%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Growth in Connection Fees***			0.0%	2.0%	2.0%	2.5%	2.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning Water Fund Balance	249,121		249,121	626,319	(114,954)	(623,890)	(1,119,089)	(1,857,501)	(2,660,417)	(2,857,077)	(3,018,861)	(3,154,599)
OPERATING REVENUES												
Water Service Charge (1st half of year)	757,500		883,750	768,860	814,990	863,890	920,040	979,840	1,023,930	1,070,010	1,118,160	1,168,480
Water Service Charge (2nd half of year)	757,500	(growth)	640,717	814,990	863,890	920,040	979,840	1,023,930	1,070,010	1,118,160	1,168,480	1,221,060
Turn On/Off Fees	6,000	2%	6,000	6,120	6,240	6,360	6,490	6,620	6,750	6,890	7,030	7,170
Late Fees	47,000	2%	47,000	47,940	48,900	49,880	50,880	51,900	52,940	54,000	55,080	56,180
Meters	9,000	3%	9,000	9,270	9,550	9,840	10,140	10,440	10,750	11,070	11,400	11,740
Uncollectable Accounts	500	2%	500	510	520	530	540	550	560	570	580	590
Miscellaneous Income	400	2%	400	410	420	430	440	450	460	470	480	490
Interest Income	1,600		1,600	1,570	-	-	-	-	-	-	-	-
Subtotal Operating Revenues	1,579,500		1,588,967	1,649,670	1,744,510	1,850,970	1,968,370	2,073,730	2,165,400	2,261,170	2,361,210	2,465,710
CAPITAL REVENUES												
Grant	350,000		350,000	-	-	-	-	-	-	-	-	-
DJ Farms Development Agreement	19,700		19,700	38,150	38,150	38,150	38,150	38,150	48,830	59,500	59,500	59,500
Water From New Development****	75,000		75,000	92,500	70,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Water Connection Fees	10,000	(growth)	10,000	81,270	82,900	105,700	107,810	21,990	22,430	22,880	23,340	23,810
Standby-By Charges	40,000		40,000	38,000	36,000	34,000	32,000	30,000	28,000	26,000	24,000	22,000
Subtotal Capital Revenues	494,700		494,700	249,920	227,050	202,850	202,960	115,140	124,260	133,380	131,840	130,310
Total Revenues	2,074,200		2,083,667	1,899,590	1,971,560	2,053,820	2,171,330	2,188,870	2,289,660	2,394,550	2,493,050	2,596,020
EXPENSES												
Operating Expenses												
Personnel Services	146,637	4%	146,637	152,500	158,600	164,940	171,540	178,400	185,540	192,960	200,680	208,710
			22 500	65,000	67,600	70,300	73,110	76,030	79,070	82,230		88,940
Utilities Director (50%)	32,500	4%	32,500	05,000	67,600	, 0,500				02,230	85,520	
Utilities Director (50%) FT Operator (50%) less current PT	32,500 17,500	4% 4%	32,500 17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	85,520 46,050	47,890
` ,			,	,	,	,	39,370 44,990	40,940 46,790	42,580 48,660	,	,	47,890 54,740
FT Operator (50%) less current PT		4%	,	35,000	36,400	37,860	,	,	,	44,280	46,050	
FT Operator (50%) less current PT Additional FT Operator (50%)	17,500	4% 4%	17,500 -	35,000 40,000	36,400 41,600	37,860 43,260	44,990	46,790	48,660	44,280 50,610	46,050 52,630	54,740
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services	17,500 1,093,765	4% 4% 3%	17,500 - 1,093,765	35,000 40,000 1,126,580	36,400 41,600 1,160,380	37,860 43,260 1,195,190	44,990 1,231,050	46,790 1,267,980	48,660 1,306,020	44,280 50,610 1,345,200	46,050 52,630 1,385,560	54,740 1,427,130
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses	17,500 1,093,765	4% 4% 3%	17,500 - 1,093,765	35,000 40,000 1,126,580 367,300	36,400 41,600 1,160,380 378,320	37,860 43,260 1,195,190 389,670	44,990 1,231,050 401,360	46,790 1,267,980 413,400	48,660 1,306,020 425,800	44,280 50,610 1,345,200 438,570	46,050 52,630 1,385,560 451,730	54,740 1,427,130 465,280
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase	17,500 1,093,765 356,600	4% 4% 3%	17,500 - 1,093,765 356,600	35,000 40,000 1,126,580 367,300 98,650	36,400 41,600 1,160,380 378,320 98,650	37,860 43,260 1,195,190 389,670 98,650	44,990 1,231,050 401,360 98,650	46,790 1,267,980 413,400 98,650	48,660 1,306,020 425,800 98,650	44,280 50,610 1,345,200 438,570 98,650	46,050 52,630 1,385,560 451,730 98,650	54,740 1,427,130 465,280 98,650
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses	17,500 1,093,765 356,600	4% 4% 3%	17,500 - 1,093,765 356,600	35,000 40,000 1,126,580 367,300 98,650	36,400 41,600 1,160,380 378,320 98,650	37,860 43,260 1,195,190 389,670 98,650	44,990 1,231,050 401,360 98,650	46,790 1,267,980 413,400 98,650	48,660 1,306,020 425,800 98,650	44,280 50,610 1,345,200 438,570 98,650	46,050 52,630 1,385,560 451,730 98,650	54,740 1,427,130 465,280 98,650
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses	17,500 1,093,765 356,600 1,647,002	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002	35,000 40,000 1,126,580 367,300 98,650 1,885,030	36,400 41,600 1,160,380 378,320 98,650 1,941,550	37,860 43,260 1,195,190 389,670 98,650 1,999,870	44,990 1,231,050 401,360 98,650 2,060,070	46,790 1,267,980 413,400 98,650 2,122,190	48,660 1,306,020 425,800 98,650 2,186,320	44,280 50,610 1,345,200 438,570 98,650 2,252,500	46,050 52,630 1,385,560 451,730 98,650 2,320,820	54,740 1,427,130 465,280 98,650 2,391,340
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay*****	17,500 1,093,765 356,600 1,647,002 60,000	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000	35,000 40,000 1,126,580 367,300 98,650 1,885,030	36,400 41,600 1,160,380 378,320 98,650 1,941,550	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150	44,990 1,231,050 401,360 98,650 2,060,070 886,340	46,790 1,267,980 413,400 98,650 2,122,190 912,930	48,660 1,306,020 425,800 98,650 2,186,320 350,000	44,280 50,610 1,345,200 438,570 98,650 2,252,500	46,050 52,630 1,385,560 451,730 98,650 2,320,820	54,740 1,427,130 465,280 98,650 2,391,340
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses	17,500 1,093,765 356,600 1,647,002 60,000 60,000	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150	44,990 1,231,050 401,360 98,650 2,060,070 886,340	46,790 1,267,980 413,400 98,650 2,122,190 912,930	48,660 1,306,020 425,800 98,650 2,186,320 350,000	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses	17,500 1,093,765 356,600 1,647,002 60,000 60,000	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150	44,990 1,231,050 401,360 98,650 2,060,070 886,340	46,790 1,267,980 413,400 98,650 2,122,190 912,930	48,660 1,306,020 425,800 98,650 2,186,320 350,000	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay**** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 1,707,002 376,665	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 772,500 2,657,530	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 562,280 2,503,830	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 579,150 2,579,020	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080)	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250)	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660)	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 2,613,000 (218,450)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 371,300 2,692,120	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400 (177,720)
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay**** Subtotal Capital Expenses TOTAL EXPENSES	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 772,500 2,657,530	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 562,280 2,503,830	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 579,150 2,579,020	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 360,500 2,613,000	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 371,300 2,692,120	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400 2,773,740
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 367,198	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 1,707,002 376,665	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 772,500 2,657,530 (757,940)	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 2,503,830 (532,270)	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 579,150 2,579,020 (525,200)	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080)	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250)	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660)	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 2,613,000 (218,450)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 2,692,120 (199,070)	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400 (177,720) 69,998
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds)	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 1,707,002 376,665	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 772,500 2,657,530	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 562,280 2,503,830	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 579,150 2,579,020	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080)	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250)	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660)	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 2,613,000 (218,450)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 371,300 2,692,120	54,740 1,427,130 465,280 98,650 2,391,340 382,400 382,400 (177,720)
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 367,198	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 1,707,002 376,665 10,000 635,786	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 772,500 2,657,530 (757,940) 16,667	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 2,503,830 (532,270) 23,334	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 2,579,020 (525,200) 30,001	44,990 1,231,050 401,360 98,650 2,060,070 886,340 2,946,410 (775,080) 36,668	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250) 43,334	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660) 50,000	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 360,500 2,613,000 (218,450) 56,666 (3,018,861)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 2,692,120 (199,070) 63,332 (3,154,599)	54,740 1,427,130 465,280 98,650 2,391,340 382,400 2,773,740 (177,720) 69,998
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target Operating Expense (25%)	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 367,198	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 376,665 10,000 635,786	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 2,657,530 (757,940) 16,667 (114,954)	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 2,503,830 (532,270) 23,334 (623,890)	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 2,579,020 (525,200) 30,001 (1,119,089)	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080) 36,668 (1,857,501)	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250) 43,334 (2,660,417)	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660) 50,000 (2,857,077)	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 360,500 2,613,000 (218,450) 56,666 (3,018,861)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 2,692,120 (199,070) 63,332 (3,154,599)	54,740 1,427,130 465,280 98,650 2,391,340 382,400 2,773,740 (177,720) 69,998 (3,262,321)
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay**** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target Operating Expense (25%) Capital Expense Reserve	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 367,198	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 376,665 10,000 635,786 411,750 1,000,000	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 2,657,530 (757,940) 16,667 (114,954) 471,260 1,000,000	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 2,503,830 (532,270) 23,334 (623,890) 485,390 1,000,000	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 2,579,020 (525,200) 30,001 (1,119,089) 499,970 1,000,000	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080) 36,668 (1,857,501) 515,020 1,000,000	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250) 43,334 (2,660,417) 530,550 1,000,000	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660) 50,000 (2,857,077) 546,580 1,000,000	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 2,613,000 (218,450) 56,666 (3,018,861) 563,130 1,000,000	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 2,692,120 (199,070) 63,332 (3,154,599) 580,210 1,000,000	54,740 1,427,130 465,280 98,650 2,391,340 382,400 2,773,740 (177,720) 69,998 (3,262,321) 597,840 1,000,000
FT Operator (50%) less current PT Additional FT Operator (50%) Supplies & Services Other Financing Uses Water Purchase Subtotal Operating Expenses Water Capital Expenses Capital Outlay***** Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target Operating Expense (25%)	17,500 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 367,198	4% 4% 3% 3%	17,500 - 1,093,765 356,600 1,647,002 60,000 60,000 1,707,002 376,665 10,000 635,786	35,000 40,000 1,126,580 367,300 98,650 1,885,030 772,500 2,657,530 (757,940) 16,667 (114,954)	36,400 41,600 1,160,380 378,320 98,650 1,941,550 562,280 2,503,830 (532,270) 23,334 (623,890)	37,860 43,260 1,195,190 389,670 98,650 1,999,870 579,150 2,579,020 (525,200) 30,001 (1,119,089)	44,990 1,231,050 401,360 98,650 2,060,070 886,340 886,340 2,946,410 (775,080) 36,668 (1,857,501)	46,790 1,267,980 413,400 98,650 2,122,190 912,930 912,930 3,035,120 (846,250) 43,334 (2,660,417)	48,660 1,306,020 425,800 98,650 2,186,320 350,000 350,000 2,536,320 (246,660) 50,000 (2,857,077)	44,280 50,610 1,345,200 438,570 98,650 2,252,500 360,500 360,500 2,613,000 (218,450) 56,666 (3,018,861)	46,050 52,630 1,385,560 451,730 98,650 2,320,820 371,300 2,692,120 (199,070) 63,332 (3,154,599)	54,740 1,427,130 465,280 98,650 2,391,340 382,400 2,773,740 (177,720) 69,998 (3,262,321)

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Assumes usage of 9 ccf.

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} Includes Beachside Cooler, Pioneer Apts., Guadalupe Court, potential Apio expansion and 10 acre feet per year

^{*****} From Water CIP. Only goes to FY21. Used nominal amount after that escalated.

Table 26: Water Cash Flow – Scenario 2: Pay As You Go City of Guadalupe Water and Wastewater Rate Analysis and Study

Passemptions Pass		Budget						Proje	cted				
Memoune Regularement Increase	Scenario 2: Pay As You Go	_	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
CPI Adjuntment	Assumptions												
Growth in Accounts**** Growth in Geometria Pes****	Revenue Requirement Increase			10.0%	10.0%	10.0%	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Growth in Connection Fees***	CPI Adjustment	1.4%		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Interest Rate	Growth in Accounts***			0.0%	4.5%	4.5%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Beginning Water Fund Balance 269,121 249,121 256,339 125,55 54,310 16,771 173,339 204,933 80,003 1,631,659 2,451,821	Growth in Connection Fees***			0.0%	2.0%	2.0%	2.5%	2.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Default Revenues 75,500	Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Mate	Beginning Water Fund Balance	249,121		249,121	626,319	125,556	54,310	167,671	173,339	204,933	880,403	1,631,659	2,451,821
Water Service Change (2nd half of year) 757,500 (growth) 703,802 (979,750) 21,555,10 (1,255,804) 1,387,700 (1,450,150) 1,515,100 (1,583,00) 1,515,800 (1,523,30) 1,515,100 (1,583,00) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 1,523,30 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 5,500 (1,503,80) 4,603 (1,503,80) <th< td=""><td>OPERATING REVENUES</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	OPERATING REVENUES												
Turn on/Off Fees	Water Service Charge (1st half of year)	757,500		883,750	844,610	979,750	1,136,510	1,255,840	1,387,700	1,450,150	1,515,410	1,583,600	1,654,860
Late Fees	Water Service Charge (2nd half of year)	757,500	(growth)	703,842	979,750	1,136,510	1,255,840	1,387,700	1,450,150	1,515,410	1,583,600	1,654,860	1,729,330
Meters 9,000 3% 9,000 9,270 9,580 9,840 10,144 10,780 11,070 11,070 11,400 11,400 10collectable Accounts 500 2% 500 510 520 530 540 550 550 570 580 590 590 500	Turn On/Off Fees	6,000	2%	6,000	6,120	6,240	6,360	6,490	6,620	6,750	6,890	7,030	7,170
Uncollectable Accounts	Late Fees	47,000	2%	47,000	47,940	48,900	49,880	50,880	51,900	52,940	54,000	55,080	56,180
Miscellaneous Income 400 2% 400 410 420 440 450 450 450 470 480 490 610	Meters	9,000	3%	9,000	9,270	9,550	9,840	10,140	10,440	10,750	11,070	11,400	11,740
Interest Income	Uncollectable Accounts	500	2%	500	510	520	530	540	550	560	570	580	590
Subtotal Operating Revenues	Miscellaneous Income	400	2%	400	410	420	430	440	450	460	470	480	490
CAPITAL REVENUES 350,000 350,000 350,000 350,000 350,000 350,000 38,150 38,	Interest Income	1,600		1,600	1,570	310	140	420	430	510	2,200	4,080	6,130
Part	Subtotal Operating Revenues	1,579,500		1,652,092	1,890,180	2,182,200	2,459,530	2,712,450	2,908,240	3,037,530	3,174,210	3,317,110	3,466,490
Diams Parms Diams Diam	CAPITAL REVENUES												
Water Cnomection Fees 10,000 (growth 10,000 81,270 25,000 25,	Grant	350,000		350,000	-	-	-	-	-	-	-	-	-
Water Cnomection Fees 10,000 (growth 10,000 81,270 25,000 25,	DJ Farms Development Agreement	19,700		19,700	38,150	38,150	38,150	38,150	38,150	48,830	59,500	59,500	59,500
Standby-By Charges	· · · · · · · · · · · · · · · · · · ·	75,000		75,000	92,500	70,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Standby-By Charges	Water Connection Fees	10,000	(growth)	10,000	81,270	82,900	105,700	107,810	21,990	22,430	22,880	23,340	23,810
Subtotal Capital Revenues 494,700 494,700 249,920 227,050 202,850 202,960 115,140 124,260 133,380 131,840 130,310 Total Revenues 2,074,200 2,146,792 2,140,100 2,409,250 2,662,380 2,915,410 3,023,380 3,161,790 3,307,590 3,448,950 3,596,800 EXPENSES	Standby-By Charges	40,000		40,000	38,000	36,000	34,000	32,000	30,000	28,000	26,000	24,000	22,000
				494,700	249,920	227,050	202,850		115,140			131,840	
Personnel Services 146,637 4% 146,637 152,500 158,600 164,940 171,540 178,400 185,540 192,960 200,680 200,700	Total Revenues	2,074,200		2,146,792	2,140,100	2,409,250	2,662,380	2,915,410	3,023,380	3,161,790	3,307,590	3,448,950	3,596,800
Personnel Services 146,637 4% 146,637 152,500 158,600 164,940 171,540 178,400 185,540 192,960 200,680 208,710 Utilities Director (50%) 32,500 4% 32,500 65,000 67,600 70,300 73,110 76,030 79,070 82,230 85,520 88,940 75 70 70 70 70 70 70 7	EXPENSES												
Utilities Director (50%) 32,500 4% 32,500 65,000 67,600 70,300 73,110 76,030 79,070 82,230 85,520 88,940 FT Operator (50%) [ses current PT 17,500 4% 17,500 35,000 36,400 37,860 39,370 40,940 42,580 44,280 46,050 47,890 Additional FT Operator (50%) 1,093,765 3% 1,093,765 3% 1,093,765 1,126,580 1,160,380 1,195,190 1,267,890 1,306,020 1,345,200 1,385,560 1,477,100 Other Financing Uses 356,600 3% 356,600 367,300 378,320 389,670 401,360 413,400 425,800 438,570 451,730 465,280 Water Purchase 1,647,002 1,647,002 1,864,500 772,500 562,280 598,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 98,650 <t< td=""><td>Operating Expenses</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Operating Expenses												
FT Operator (50%) less current PT	Personnel Services	146,637	4%	146,637	152,500	158,600	164,940	171,540	178,400	185,540	192,960	200,680	208,710
Additional FT Operator (50%)	Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
Supplies & Services 1,093,765 3% 1,093,765 1,126,580 1,166,380 1,95,190 1,231,050 1,267,980 1,366,020 1,345,200 1,385,560 1,427,130 Other Financing Uses 356,600 3% 356,600 367,300 378,320 389,670 401,360 413,400 425,800 438,570 451,730 465,280 Water Purchase 1,647,002 1,647,002 1,885,030 1,941,550 1,999,870 2,060,070 2,122,190 2,186,320 2,252,500 2,320,820 2,391,340 Water Capital Expenses 60,000 3% 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,643,300 2,692,120 <td>FT Operator (50%) less current PT</td> <td>17,500</td> <td>4%</td> <td>17,500</td> <td>35,000</td> <td>36,400</td> <td>37,860</td> <td>39,370</td> <td>40,940</td> <td>42,580</td> <td>44,280</td> <td>46,050</td> <td>47,890</td>	FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Other Financing Uses 356,600 3% 356,600 367,300 378,320 389,670 401,360 413,400 425,800 438,570 451,730 465,280 Water Purchase 1,647,002 1,847,002 1,885,030 1,941,550 1,999,870 2,060,070 2,122,190 2,186,320 2,252,500 2,320,820 2,391,340 Water Capital Expenses 60,000 3% 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,691,202 2,773,740	Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Water Purchase 98,650 2,946,410 2,122,190 2,186,320 2,252,500 2,320,820 2,931,340 2,931,340 2,946,410 3,50,000 360,500 371,300 382,400 386,340 912,930 350,000 360,500 371,300 382,400 386,340 912,930 350,000 360,500 371,300 382,400 386,340 912,930 350,000 360,500 371,300 382,400 388,340 912,930 350,000 360,500 371,300 382,400 360,500 371,300 360,500 371,300 360,500 371,300 382,400 383,360 31,000 <td>Supplies & Services</td> <td>1,093,765</td> <td>3%</td> <td>1,093,765</td> <td>1,126,580</td> <td>1,160,380</td> <td>1,195,190</td> <td>1,231,050</td> <td>1,267,980</td> <td>1,306,020</td> <td>1,345,200</td> <td>1,385,560</td> <td>1,427,130</td>	Supplies & Services	1,093,765	3%	1,093,765	1,126,580	1,160,380	1,195,190	1,231,050	1,267,980	1,306,020	1,345,200	1,385,560	1,427,130
Subtotal Operating Expenses 1,647,002 1,647,002 1,885,030 1,941,550 1,999,870 2,060,070 2,122,190 2,186,320 2,252,500 2,320,820 2,391,340 Water Capital Expenses 60,000 3% 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,613,000 2,692,120 2,773,740 Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998	Other Financing Uses	356,600	3%	356,600	367,300	378,320	389,670	401,360	413,400	425,800	438,570	451,730	465,280
Water Capital Expenses 60,000 3% 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,692,120 2,773,740 Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Ta	Water Purchase				98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650
Capital Outlay***** 60,000 3% 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,631,000 2,692,120 2,773,740 Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 <t< td=""><td>Subtotal Operating Expenses</td><td>1,647,002</td><td></td><td>1,647,002</td><td>1,885,030</td><td>1,941,550</td><td>1,999,870</td><td>2,060,070</td><td>2,122,190</td><td>2,186,320</td><td>2,252,500</td><td>2,320,820</td><td>2,391,340</td></t<>	Subtotal Operating Expenses	1,647,002		1,647,002	1,885,030	1,941,550	1,999,870	2,060,070	2,122,190	2,186,320	2,252,500	2,320,820	2,391,340
Subtotal Capital Expenses 60,000 60,000 772,500 562,280 579,150 886,340 912,930 350,000 360,500 371,300 382,400 TOTAL EXPENSES 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,613,000 2,692,120 2,773,740 Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 </td <td>Water Capital Expenses</td> <td></td>	Water Capital Expenses												
TOTAL EXPENSES 1,707,002 1,707,002 2,657,530 2,503,830 2,579,020 2,946,410 3,035,120 2,536,320 2,613,000 2,692,120 2,773,740 Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000	Capital Outlay****	60,000	3%	60,000	772,500	562,280	579,150	886,340	912,930	350,000	360,500	371,300	382,400
Total Net Revenues 367,198 439,790 (517,430) (94,580) 83,360 (31,000) (11,740) 625,470 694,590 756,830 823,060 Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000	Subtotal Capital Expenses	60,000		60,000	772,500	562,280	579,150	886,340	912,930	350,000	360,500	371,300	382,400
Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000	TOTAL EXPENSES	1,707,002		1,707,002	2,657,530	2,503,830	2,579,020	2,946,410	3,035,120	2,536,320	2,613,000	2,692,120	2,773,740
Payback of General Fund Loan 10,000 16,667 23,334 30,001 36,668 43,334 50,000 56,666 63,332 69,998 Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000													
Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000	Total Net Revenues	367,198		439,790	(517,430)	(94,580)	83,360	(31,000)	(11,740)	625,470	694,590	756,830	823,060
Ending Water Fund Balance (All Funds) 626,319 698,911 125,556 54,310 167,671 173,339 204,933 880,403 1,631,659 2,451,821 3,344,879 Reserve Target Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000	Payback of General Fund Loan	10.000		10.000	16.667	23.334	30.001	36.668	43.334	50.000	56.666	63.332	69.998
Reserve Target 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,515,020 1,546,580 1,563,130 1,580,210 1,597,840		,		7	,								
Operating Expense (25%) 411,750 471,260 485,390 499,970 515,020 530,550 546,580 563,130 580,210 597,840 Capital Expense Reserve 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,515,020 1,546,580 1,563,130 1,580,210 1,597,840	Ending Water Fund Balance (All Funds)	626,319		698,911	125,556	54,310	167,671	173,339	204,933	880,403	1,631,659	2,451,821	3,344,879
Capital Expense Reserve 1,000,000 </td <td>Reserve Target</td> <td></td>	Reserve Target												
Total Reserve Target: 1,411,750 1,471,260 1,485,390 1,499,970 1,515,020 1,530,550 1,563,130 1,580,210 1,597,840	Operating Expense (25%)			411,750	471,260	485,390	499,970	515,020	530,550	546,580	563,130	580,210	597,840
	Capital Expense Reserve			1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Reserve Targets Met: NO NO NO NO NO NO YES YES YES	Total Reserve Target:			1,411,750	1,471,260	1,485,390	1,499,970	1,515,020	1,530,550	1,546,580	1,563,130	1,580,210	1,597,840
	Danama Tamanta Marti			NO	VEC	VEC	VEC						

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

 $[\]boldsymbol{**}$ Assumes usage of 9 ccf.

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} Includes Beachside Cooler, Pioneer Apts., Guadalupe Court, potential Apio expansion and 10 acre feet per year

^{*****} From Water CIP. Only goes to FY21. Used nominal amount after that escalated.

Table 27: Water Cash Flow – Scenario 3: \$5.2m SRF Loan City of Guadalupe
Water and Wastewater Rate Analysis and Study

Scenario 3: SRF Loan	Budget						Proje	cted				
Scenario 3: SKF Loan	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Revenue Requirement Increase			3.0%	4.0%	4.0%	4.0%	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment	1.4%		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.0%	4.5%	4.5%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Growth in Connection Fees***			0.0%	2.0%	2.0%	2.5%	2.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning Water Fund Balance	249,121		249,121	626,319	736,536	702,140	781,001	1,019,589	1,327,923	1,746,623	2,234,789	2,783,781
OPERATING REVENUES												
Water Service Charge (1st half of year)	757,500		883,750	791,590	870,750	957,830	1,058,400	1,169,530	1,268,940	1,326,040	1,385,710	1,448,070
Water Service Charge (2nd half of year)	757,500	(growth)	659,658	870,750	957,830	1,058,400	1,169,530	1,268,940	1,326,040	1,385,710	1,448,070	1,513,230
Turn On/Off Fees	6,000	2%	6,000	6,120	6,240	6,360	6,490	6,620	6,750	6,890	7,030	7,170
Late Fees	47,000	2%	47,000	47,940	48,900	49,880	50,880	51,900	52,940	54,000	55,080	56,180
Meters	9,000	3%	9,000	9,270	9,550	9,840	10,140	10,440	10,750	11,070	11,400	11,740
Uncollectable Accounts	500	2%	500	510	520	530	540	550	560	570	580	590
Miscellaneous Income	400	2%	400	410	420	430	440	450	460	470	480	490
Interest Income	1,600		1,600	1,570	1,840	1,760	1,950	2,550	3,320	4,370	5,590	6,960
Subtotal Operating Revenues	1,579,500		1,607,908	1,728,160	1,896,050	2,085,030	2,298,370	2,510,980	2,669,760	2,789,120	2,913,940	3,044,430
CAPITAL REVENUES	, ,			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Grant	350,000		350,000	-	-	-	-	-	-	-	-	-
SRF Loan	-		, , , , , , , , , , , , , , , , , , ,	773,000	562,000	579,000	886,000	913,000	350,000	361,000	371,000	382,000
DJ Farms Development Agreement	19,700		19,700	38,150	38,150	38,150	38,150	38,150	48,830	59,500	59,500	59,500
Water From New Development****	75,000		75,000	92,500	70,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Water Connection Fees	10,000	(growth)	10,000	81,270	82,900	105,700	107,810	21,990	22,430	22,880	23,340	23,810
Standby-By Charges	40,000	(8 ,	40,000	38,000	36,000	34,000	32,000	30,000	28,000	26,000	24,000	22,000
Subtotal Capital Revenues	494,700		494,700	1,022,920	789,050	781,850	1,088,960	1,028,140	474,260	494,380	502,840	512,310
Total Revenues	2,074,200		2,102,608	2,751,080	2,685,100	2,866,880	3,387,330	3,539,120	3,144,020	3,283,500	3,416,780	3,556,740
EXPENSES	, , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	,,	,,			,,-			
Operating Expenses												
Personnel Services	146,637	4%	146,637	152,500	158,600	164,940	171,540	178,400	185,540	192,960	200,680	208,710
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)	•	4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	1,093,765	3%	1,093,765	1,126,580	1,160,380	1,195,190	1,231,050	1,267,980	1,306,020	1,345,200	1,385,560	1,427,130
Other Financing Uses	356,600	3%	356,600	367,300	378,320	389,670	401,360	413,400	425,800	438,570	451,730	465,280
Water Purchase	,		,	98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650
Subtotal Operating Expenses	1,647,002		1,647,002	1,885,030	1,941,550	1,999,870	2,060,070	2,122,190	2,186,320	2,252,500	2,320,820	2,391,340
Water Capital Expenses	, , , , , ,		, , , , , ,	,,	,- ,	,,-	, , .	, ,	,,-	, - ,	, , , , ,	, ,-
Capital Outlay****	60,000	3%	60,000	772,500	562,280	579,150	886,340	912,930	350,000	360,500	371,300	382,400
SRF Debt Payments			-	-	239,000	239,000	239,000	239,000	239,000	239,000	239,000	239,000
Subtotal Capital Expenses	60,000		60,000	772,500	801,280	818,150	1,125,340	1,151,930	589,000	599,500	610,300	621,400
TOTAL EXPENSES	1,707,002		1,707,002	2,657,530	2,742,830	2,818,020	3,185,410	3,274,120	2,775,320	2,852,000	2,931,120	3,012,740
	, , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	, ,	, , , ,	,,-				,,	,,	
Total Net Revenues	367,198		395,606	93,550	(57,730)	48,860	201,920	265,000	368,700	431,500	485,660	544,000
												<u> </u>
Payback of General Fund Loan	10,000		10,000	16,667	23,334	30,001	36,668	43,334	50,000	56,666	63,332	69,998
Ending Water Fund Balance (All Funds)	626,319		654,727	736,536	702,140	781,001	1,019,589	1,327,923	1,746,623	2,234,789	2,783,781	3,397,779
Ending Water Fund Balance (All Funds) Reserve Target	626,319		654,727	736,536	702,140	781,001	1,019,589	1,327,923	1,746,623	2,234,789	2,783,781	3,397,779
	626,319		654,727 411,750	736,536 471,260	702,140 485,390	781,001 499,970	1,019,589 515,020	1,327,923 530,550	1,746,623 546,580	2,234,789 563,130	2,783,781 580,210	3,397,779 597,840
Reserve Target	626,319			·		·				,		
Reserve Target Operating Expense (25%)	626,319		411,750	471,260	485,390	499,970	515,020	530,550	546,580	563,130	580,210 1,000,000	597,840

 $[\]ensuremath{^*}$ First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

 $[\]ensuremath{^{**}}$ Assumes usage of 9 ccf.

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} Includes Beachside Cooler, Pioneer Apts., Guadalupe Court, potential Apio expansion and 10 acre feet per year

^{*****} From Water CIP. Only goes to FY21. Used nominal amount after that escalated.

Table 28: Water Cash Flow – Scenario 4: \$3.5m SRF \$1.7m Grants City of Guadalupe

	Budget						Proje	cted				
Scenario 4: \$3.5m SRF and \$1.7m Grants	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Revenue Requirement Increase			4.0%	4.0%	3.0%	3.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment	1.4%		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.0%	4.5%	4.5%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Growth in Connection Fees***			0.0%	2.0%	2.0%	2.5%	2.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning Water Fund Balance	249,121		249,121	626,319	752,436	804,780	953,091	1,240,319	1,538,253	1,895,753	2,315,279	2,790,891
OPERATING REVENUES					•		•					
Water Service Charge (1st half of year)	757,500		883,750	799,160	879,080	958,200	1,049,230	1,148,910	1,200,610	1,254,640	1,311,100	1,370,100
Water Service Charge (2nd half of year)	757,500	(growth)	665,967	879,080	958,200	1,049,230	1,148,910	1,200,610	1,254,640	1,311,100	1,370,100	1,431,750
Turn On/Off Fees	6,000	2%	6,000	6,120	6,240	6,360	6,490	6,620	6,750	6,890	7,030	7,170
Late Fees	47,000	2%	47,000	47,940	48,900	49,880	50,880	51,900	52,940	54,000	55,080	56,180
Meters	9,000	3%	9,000	9,270	9,550	9,840	10,140	10,440	10,750	11,070	11,400	11,740
Uncollectable Accounts	500	2%	500	510	520	530	540	550	560	570	580	590
Miscellaneous Income	400	2%	400	410	420	430	440	450	460	470	480	490
Interest Income	1,600		1,600	1,570	1,880	2,010	2,380	3,100	3,850	4,740	5,790	6,980
Subtotal Operating Revenues	1,579,500		1,614,217	1,744,060	1,904,790	2,076,480	2,269,010	2,422,580	2,530,560	2,643,480	2,761,560	2,885,000
CAPITAL REVENUES			_,,,	_,,	_,,,	_,,			_,		_,,	
Grant	350,000		350,000	258,000	187,000	193,000	295,000	304,000	117,000	120,000	124,000	127,000
SRF loan	551,555		-	515,000	375,000	386,000	591,000	609,000	233,000	240,000	248,000	255,000
DJ Farms Development Agreement	19,700		19,700	38,150	38,150	38,150	38,150	38,150	48,830	59,500	59,500	59,500
Water From New Development****	75,000		75,000	92,500	70,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Water Connection Fees	10,000	(growth)	10,000	81,270	82,900	105,700	107,810	21,990	22,430	22,880	23,340	23,810
Standby-By Charges	40,000	(Browerry	40,000	38,000	36,000	34,000	32,000	30,000	28,000	26,000	24,000	22,000
Subtotal Capital Revenues	494,700		494,700	1,022,920	789,050	781,850	1,088,960	1,028,140	474,260	493,380	503,840	512,310
Total Revenues	2,074,200		2,108,917	2.766.980	2,693,840	2,858,330	3,357,970	3,450,720	3,004,820	3,136,860	3,265,400	3,397,310
EXPENSES	, , ,		, , .		, ,	,,						, , , , , , , , , , , , , , , , , , , ,
Operating Expenses												
Personnel Services	146,637	4%	146,637	152,500	158,600	164,940	171,540	178,400	185,540	192,960	200,680	208,710
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)	•	4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	1,093,765	3%	1,093,765	1,126,580	1,160,380	1,195,190	1,231,050	1,267,980	1,306,020	1,345,200	1,385,560	1,427,130
Other Financing Uses	356,600	3%	356,600	367,300	378,320	389,670	401,360	413,400	425,800	438,570	451,730	465,280
Water Purchase	,		,	98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650	98,650
Subtotal Operating Expenses	1,647,002		1,647,002	1,885,030	1,941,550	1,999,870	2,060,070	2,122,190	2,186,320	2,252,500	2,320,820	2,391,340
· · · · · · · · · · · · · · · · · · ·												
Water Capital Expenses				, ,	_,,	2,555,676	_,000,070					
Water Capital Expenses Capital Outlav*****	60.000	3%	60.000	772.500								382.400
Capital Outlay****	60,000	3%	60,000	772,500	562,280	579,150	886,340	912,930	350,000	360,500	371,300	382,400 161.000
Capital Outlay***** SRF Debt Payments		3%			562,280 161,000	579,150 161,000	886,340 161,000	912,930 161,000	350,000 161,000	360,500 161,000	371,300 161,000	161,000
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses	60,000	3%	60,000	772,500	562,280 161,000 723,280	579,150 161,000 740,150	886,340 161,000 1,047,340	912,930 161,000 1,073,930	350,000 161,000 511,000	360,500 161,000 521,500	371,300 161,000 532,300	161,000 543,400
Capital Outlay***** SRF Debt Payments		3%			562,280 161,000	579,150 161,000	886,340 161,000	912,930 161,000	350,000 161,000	360,500 161,000	371,300 161,000	161,000
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES	60,000 1,707,002	3%	60,000 1,707,002	772,500	562,280 161,000 723,280 2,664,830	579,150 161,000 740,150 2,740,020	886,340 161,000 1,047,340 3,107,410	912,930 161,000 1,073,930 3,196,120	350,000 161,000 511,000 2,697,320	360,500 161,000 521,500 2,774,000	371,300 161,000 532,300	161,000 543,400 2,934,740
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses	60,000	3%	60,000	772,500 2,657,530	562,280 161,000 723,280	579,150 161,000 740,150	886,340 161,000 1,047,340	912,930 161,000 1,073,930	350,000 161,000 511,000	360,500 161,000 521,500	371,300 161,000 532,300 2,853,120	161,000 543,400
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES	60,000 1,707,002	3%	60,000 1,707,002	772,500 2,657,530	562,280 161,000 723,280 2,664,830	579,150 161,000 740,150 2,740,020	886,340 161,000 1,047,340 3,107,410	912,930 161,000 1,073,930 3,196,120	350,000 161,000 511,000 2,697,320	360,500 161,000 521,500 2,774,000	371,300 161,000 532,300 2,853,120	161,000 543,400 2,934,740
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues	60,000 1,707,002 367,198	3%	60,000 1,707,002 401,915	772,500 2,657,530 109,450	562,280 161,000 723,280 2,664,830	579,150 161,000 740,150 2,740,020	886,340 161,000 1,047,340 3,107,410	912,930 161,000 1,073,930 3,196,120 254,600	350,000 161,000 511,000 2,697,320 307,500	360,500 161,000 521,500 2,774,000	371,300 161,000 532,300 2,853,120 412,280	161,000 543,400 2,934,740 462,570
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues	60,000 1,707,002 367,198	3%	60,000 1,707,002 401,915	772,500 2,657,530 109,450	562,280 161,000 723,280 2,664,830	579,150 161,000 740,150 2,740,020	886,340 161,000 1,047,340 3,107,410	912,930 161,000 1,073,930 3,196,120 254,600	350,000 161,000 511,000 2,697,320 307,500	360,500 161,000 521,500 2,774,000	371,300 161,000 532,300 2,853,120 412,280	161,000 543,400 2,934,740 462,570
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan	60,000 1,707,002 367,198 10,000	3%	60,000 1,707,002 401,915	772,500 2,657,530 109,450 16,667	562,280 161,000 723,280 2,664,830 29,010	579,150 161,000 740,150 2,740,020 118,310	886,340 161,000 1,047,340 3,107,410 250,560	912,930 161,000 1,073,930 3,196,120 254,600 43,334	350,000 161,000 511,000 2,697,320 307,500	360,500 161,000 521,500 2,774,000 362,860	371,300 161,000 532,300 2,853,120 412,280	161,000 543,400 2,934,740 462,570 69,998
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds)	60,000 1,707,002 367,198 10,000	3%	60,000 1,707,002 401,915	772,500 2,657,530 109,450 16,667	562,280 161,000 723,280 2,664,830 29,010	579,150 161,000 740,150 2,740,020 118,310	886,340 161,000 1,047,340 3,107,410 250,560	912,930 161,000 1,073,930 3,196,120 254,600 43,334	350,000 161,000 511,000 2,697,320 307,500	360,500 161,000 521,500 2,774,000 362,860	371,300 161,000 532,300 2,853,120 412,280	161,000 543,400 2,934,740 462,570 69,998
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target	60,000 1,707,002 367,198 10,000	3%	60,000 1,707,002 401,915 10,000 661,036	772,500 2,657,530 109,450 16,667	562,280 161,000 723,280 2,664,830 29,010 23,334 804,780	579,150 161,000 740,150 2,740,020 118,310 30,001	886,340 161,000 1,047,340 3,107,410 250,560 36,668 1,240,319	912,930 161,000 1,073,930 3,196,120 254,600 43,334 1,538,253	350,000 161,000 511,000 2,697,320 307,500 50,000	360,500 161,000 521,500 2,774,000 362,860 56,666	371,300 161,000 532,300 2,853,120 412,280 63,332 2,790,891	161,000 543,400 2,934,740 462,570 69,998 3,323,459
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target Operating Expense (25%) Capital Expense Reserve Total Reserve Target:	60,000 1,707,002 367,198 10,000	3%	60,000 1,707,002 401,915 10,000 661,036 411,750	772,500 2,657,530 109,450 16,667 752,436	562,280 161,000 723,280 2,664,830 29,010 23,334 804,780 485,390	579,150 161,000 740,150 2,740,020 118,310 30,001 953,091	886,340 161,000 1,047,340 3,107,410 250,560 36,668 1,240,319	912,930 161,000 1,073,930 3,196,120 254,600 43,334 1,538,253 530,550	350,000 161,000 511,000 2,697,320 307,500 50,000 1,895,753	360,500 161,000 521,500 2,774,000 362,860 56,666 2,315,279	371,300 161,000 532,300 2,853,120 412,280 63,332 2,790,891	161,000 543,400 2,934,740 462,570 69,998 3,323,459
Capital Outlay***** SRF Debt Payments Subtotal Capital Expenses TOTAL EXPENSES Total Net Revenues Payback of General Fund Loan Ending Water Fund Balance (All Funds) Reserve Target Operating Expense (25%) Capital Expense Reserve	60,000 1,707,002 367,198 10,000 626,319		60,000 1,707,002 401,915 10,000 661,036 411,750 1,000,000 1,411,750 NO	772,500 2,657,530 109,450 16,667 752,436 471,260 1,000,000	562,280 161,000 723,280 2,664,830 29,010 23,334 804,780 485,390 1,000,000	579,150 161,000 740,150 2,740,020 118,310 30,001 953,091 499,970 1,000,000	886,340 161,000 1,047,340 3,107,410 250,560 36,668 1,240,319 515,020 1,000,000	912,930 161,000 1,073,930 3,196,120 254,600 43,334 1,538,253 530,550 1,000,000	350,000 161,000 511,000 2,697,320 307,500 50,000 1,895,753 546,580 1,000,000	360,500 161,000 521,500 2,774,000 362,860 56,666 2,315,279 563,130 1,000,000	371,300 161,000 532,300 2,853,120 412,280 63,332 2,790,891 580,210 1,000,000	161,000 543,400 2,934,740 462,570 69,998 3,323,459 597,840 1,000,000

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Assumes usage of 9 ccf.

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} Includes Beachside Cooler, Pioneer Apts., Guadalupe Court, potential Apio expansion and 10 acre feet per year

^{*****} From Water CIP. Only goes to FY21. Used nominal amount after that escalated.

APPENDIX B

Wastewater Rate Study Tables

Table 29: Wastewater Expenses City of Guadalupe Water and Wastewater Rate Analysis and Study

	Budget*
Wastewater Operating Expenses	FY2016
Personal Services:	
Salaries-Regular	\$111,897
Salaries-Temporary	10,450
Overtime	15,675
WW FT Operator (Split w/ Water)	17,500
Utilities Director (Split w/ Water)	32,500
Retirement-Pers	26,558
FICA/Medicare	12,119
Workers' Compensation	7,324
Medical/Life Insurance	13,705
Other Benefits	14,396
Dental Insurance	1,600
Vision Insurance	179
Supplies and Services:	
Utilities	185,000
Communications	4,000
Office Supplies and Postage	10,000
Advertising & Publication	500
Business Expense and Trng	500
Memberships, Dues & Subs	500
Equipment Maintenance	2,000
Facilities Maintenance	2,000
Vehicle Maintenance	1,000
Equipment Replacement	1,000
Operating Supplies & Exp.	30,000
Fuel & Lubricants	8,000
Bank Service Charges	1,200
Professional Services	100,000
It Services	5,000
Equipment Rental	5,000
Liability Insurance	28,370
Services by Other Agencies	20,000
Other Financing Uses:	
Debt Service Principal	20,000
Debt Service Interest	41,000
Lease Purchase	30,000
Transfer to RDA Operating	150,000
Transfer to General Fund	177,700
Total Operating Expenses:	1,086,673

Source: Wastewater Operating with Removed Franchise Fee

^{*}Includes New Staff Expenses

Table 30: Detailed Wastewater CIP City of Guadalupe Water and Wastewater Rate Analysis and Study

CIP Projections Sewer	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Pioneer Lift Station Replacement	\$454,350	\$0	\$0	\$0	\$0	\$0	\$454,350
Highway 1 Lift Station	607,880	-	-	-	-	-	607,880
Gularte Lift Station	-	-	20,000	-	-	-	20,000
11th Street Gravity Sewer	-	-	829,400	-	-	-	829,400
12-Inch Trunk Sewer	-	1,261,500	-	-	-	-	1,261,500
Campondonico Avenue Sewer	-	-	-	-	291,740	-	291,740
Pioneer Street Sewer	-	-	-	-	-	93,960	93,960
Tognazzini Avenue Sewer	-	-	-	-	34,104	-	34,104
Carline Drive Sewer	-	-	-	-	142,680	-	142,680
Mahoney Lane Sewer	-	-	-	-	-	107,880	107,880
Surfbird Lane Sewer	-	-	-	-	-	99,905	99,905
Riverview Development Sewer	-	-	-	-	-	43,500	43,500
Influent Pump Station	-	-	-	30,700	-	-	30,700
Treated Effluent Pipeline & Holding Pond	-	-	-	-	810,000	810,000	1,620,000
Irrigation Pump Station	-	750,000	-	-	-	-	750,000
Spray Irrigation				580,000			580,000
TOTALS	1,062,230	2,011,500	849,400	610,700	1,278,524	1,155,245	6,967,599

^{*} Expressed in 2015 dollars.

Table 31: Wastewater Cash Flow – Scenario 1: CPI Increases City of Guadalupe Water and Wastewater Rate Analysis and Study

Budget Projected										•		
Scenario 1: No Rate Increases	FY2016	Increase	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Rate Increase*	28.2%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment			1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.00%	4.50%	4.50%	4.50%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Connection Fees***			0.00%	2.00%	2.00%	2.00%	1.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning WW Fund Balance	(715,653)		(715,653)	(616,013)	(1,511,672)	(3,290,321)	(3,863,281)	(4,227,411)	(5,455,091)	(6,591,981)	(6,712,156)	(6,856,308)
OPERATING REVENUES												
Sewer Service Charge (FY2016 7% reduction)	1,050,000	(growth)	1,056,563	1,088,261	1,120,911	1,154,540	1,186,290	1,212,980	1,240,270	1,268,175	1,296,708	1,325,884
Set Up Fees	3,500	2%	3,500	3,570	3,640	3,710	3,780	3,860	3,940	4,020	4,100	4,180
Late Fees	27,000	2%	27,000	27,540	28,090	28,650	29,220	29,800	30,400	31,010	31,630	32,260
Subtotal Operating Revenues	1,080,500		1,087,063	1,119,371	1,152,641	1,186,900	1,219,290	1,246,640	1,274,610	1,303,205	1,332,438	1,362,324
CAPITAL REVENUES												
DJ Farms Develop. Agreement	93,750		93,750	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500
Wastewater Connection Fees***	5,500	(Growth)	5,500	108,390	110,550	112,760	86,260	29,330	29,920	30,510	31,130	31,750
Subtotal Capital Revenues	99,250		99,250	295,890	298,050	300,260	273,760	216,830	217,420	218,010	218,630	219,250
Total Revenues	1,179,750		1,186,313	1,415,261	1,450,691	1,487,160	1,493,050	1,463,470	1,492,030	1,521,215	1,551,068	1,581,574
EXPENSES												
Operating Expenses												
Personnel Services	213,903	4%	213,903	222,460	231,360	240,610	250,230	260,240	270,650	281,480	292,740	304,450
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	404,070	3%	404,070	416,190	428,680	441,540	454,790	468,430	482,480	496,950	511,860	527,220
Other Financing Uses	418,700	3%	418,700	438,170	289,700	298,390	307,340	316,560	326,060	335,840	345,920	356,300
Subtotal Operating Expenses	1,086,673		1,086,673	1,216,820	1,095,340	1,131,960	1,169,830	1,208,990	1,249,500	1,291,390	1,334,720	1,379,540
Wastewater Capital Expenses												
Capital Outlay****	-	3%	-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
Subtotal Capital Expenses	-		-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
TOTAL EXPENSES	1,086,673		1,086,673	2,310,920	3,229,340	2,060,120	1,857,180	2,691,150	2,628,920	1,641,390	1,695,220	1,750,840
Total Net Revenues	93,077		99,640	(895,659)	(1,778,649)	(572,960)	(364,130)	(1,227,680)	(1,136,890)	(120,175)	(144,152)	(169,266)
Ending WW Fund Balance (All Funds)	(622,576)		(616,013)	(1,511,672)	(3,290,321)	(3,863,281)	(4,227,411)	(5,455,091)	(6,591,981)	(6,712,156)	(6,856,308)	(7,025,575)
Reserve Targets												
Operating Expense (25%)	-		271,670	304,210	273,840	282,990	292,460	302,250	312,380	322,850	333,680	344,890
Capital Expense Reserve	-		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Targets:	-		1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250	1,312,380	1,322,850	1,333,680	1,344,890
Reserve Targets Met:			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Residential Flat Rate

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} From Sewer CIP. Only goes to FY22. Used nominal amount after that escalated.

Table 32: Wastewater Cash Flow – Scenario 2: Pay As You Go City of Guadalupe Water and Wastewater Rate Analysis and Study

	Budget	Projected										
Scenario 2: Pay As You Go	FY2016	Increase	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Rate Increase*	28.2%		30.0%	30.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment			1.5%	1.5%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Growth in Accounts***			0.00%	4.50%	4.50%	4.50%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Connection Fees***			0.00%	2.00%	2.00%	2.00%	1.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning WW Fund Balance	(715,653)		(715,653)	(484,759)	(839,379)	(1,616,979)	(925,159)	46,431	215,921	527,631	1,909,581	3,320,771
OPERATING REVENUES												
Sewer Service Charge (1st half of year)	525,000		612,500	690,380	938,920	1,183,040	1,236,280	1,285,730	1,324,300	1,364,030	1,404,950	1,447,100
Sewer Service Charge (2nd half of year)	525,000	(growth)	575,317	938,920	1,183,040	1,236,280	1,285,730	1,324,300	1,364,030	1,404,950	1,447,100	1,490,510
Set Up Fees	3,500	2%	3,500	3,570	3,640	3,710	3,780	3,860	3,940	4,020	4,100	4,180
Late Fees	27,000	2%	27,000	27,540	28,090	28,650	29,220	29,800	30,400	31,010	31,630	32,260
Subtotal Operating Revenues	1,080,500		1,218,317	1,660,410	2,153,690	2,451,680	2,555,010	2,643,810	2,723,210	2,805,330	2,887,780	2,974,050
CAPITAL REVENUES												
DJ Farms Develop. Agreement	93,750		93,750	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500
Wastewater Connection Fees***	5,500	(Growth)	5,500	108,390	110,550	112,760	86,260	29,330	29,920	30,510	31,130	31,750
Subtotal Capital Revenues	99,250		99,250	295,890	298,050	300,260	273,760	216,830	217,420	218,010	218,630	219,250
Total Revenues	1,179,750		1,317,567	1,956,300	2,451,740	2,751,940	2,828,770	2,860,640	2,940,630	3,023,340	3,106,410	3,193,300
EXPENSES												
Operating Expenses												
Personnel Services	213,903	4%	213,903	222,460	231,360	240,610	250,230	260,240	270,650	281,480	292,740	304,450
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	404,070	3%	404,070	416,190	428,680	441,540	454,790	468,430	482,480	496,950	511,860	527,220
Other Financing Uses	418,700	3%	418,700	438,170	289,700	298,390	307,340	316,560	326,060	335,840	345,920	356,300
Subtotal Operating Expenses	1,086,673		1,086,673	1,216,820	1,095,340	1,131,960	1,169,830	1,208,990	1,249,500	1,291,390	1,334,720	1,379,540
Wastewater Capital Expenses												
Capital Outlay****	-	3%	-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
Subtotal Capital Expenses	-		-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
TOTAL EXPENSES	1,086,673		1,086,673	2,310,920	3,229,340	2,060,120	1,857,180	2,691,150	2,628,920	1,641,390	1,695,220	1,750,840
Total Net Revenues	93,077		230,894	(354,620)	(777,600)	691,820	971,590	169,490	311,710	1,381,950	1,411,190	1,442,460
Ending WW Fund Balance (All Funds)	(622,576)		(484,759)	(839,379)	(1,616,979)	(925,159)	46,431	215,921	527,631	1,909,581	3,320,771	4,763,231
Reserve Targets												
Operating Expense (25%)	-		271,670	304,210	273,840	282,990	292,460	302,250	312,380	322,850	333,680	344,890
Capital Expense Reserve	-		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Targets:	-		1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250	1,312,380	1,322,850	1,333,680	1,344,890
Reserve Targets Met:			NO	NO	NO	NO	NO	NO	NO	YES	YES	YES

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Residential Flat Rate

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} From Sewer CIP. Only goes to FY22. Used nominal amount after that escalated.

Table 33: Wastewater Cash Flow – Scenario 3: \$9m SRF Loan City of Guadalupe
Water and Wastewater Pate Analysis and Study

	Budget		Projected									
Scenario 3: \$9m SRF Loan	FY2016	Increase	FY2016*	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions	112020	mereuse	112020	112017	112020	112013	112020	112021	TTEOLL	112023	112024	112023
Rate Increase*	28.2%		15.0%	10.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment	20.276		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
*			0.00%	4.50%	4.50%	4.50%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Accounts***												
Growth in Connection Fees***			0.00%	2.00%	2.00%	2.00%	1.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interest Rate	(715,653)		0.00%	0.25%	0.25%	0.25%	0.25% 220,082	0.25% 667,132	0.25%	0.25% 1,583,372	0.25%	0.25% 2,677,152
Beginning WW Fund Balance	(715,653)		(715,653)	(550,388)	(524,188)	(197,728)	220,082	667,132	1,104,482	1,583,372	2,106,762	2,6//,152
OPERATING REVENUES	F3F 000		612 500	611 620	700 400	707 520	024 700	990 600	020 220	061 720	1 005 010	1 050 240
Sewer Service Charge (1st half of year)	525,000	(612,500	611,630	709,490	787,530	834,780	880,690	920,320	961,730	1,005,010	1,050,240
Sewer Service Charge (2nd half of year)	525,000	(growth)	509,688	709,490	787,530	834,780	880,690	920,320	961,730	1,005,010	1,050,240	1,097,500
Set Up Fees	3,500	2% 2%	3,500	3,570	3,640	3,710	3,780	3,860	3,940	4,020	4,100	4,180
Late Fees	27,000	2%	27,000	27,540	28,090	28,650	29,220	29,800	30,400	31,010	31,630	32,260
Subtotal Operating Revenues	1,080,500		1,152,688	1,352,230	1,528,750	1,654,670	1,748,470	1,834,670	1,916,390	2,001,770	2,090,980	2,184,180
CAPITAL REVENUES				1 004 000	2 124 000	020.000	CO7 000	1 402 000	1 270 000	250,000	264 000	274 000
SRF	- 02.750		02.750	1,094,000	2,134,000	928,000	687,000	1,482,000	1,379,000	350,000	361,000	371,000
DJ Farms Develop. Agreement	93,750	(6	93,750	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500
Wastewater Connection Fees***	5,500	(Growth)	5,500	108,390	110,550	112,760	86,260	29,330	29,920	30,510	31,130	31,750
Subtotal Capital Revenues	99,250		99,250	1,389,890	2,432,050	1,228,260	960,760	1,698,830	1,596,420	568,010	579,630	590,250
Total Revenues	1,179,750		1,251,938	2,742,120	3,960,800	2,882,930	2,709,230	3,533,500	3,512,810	2,569,780	2,670,610	2,774,430
EXPENSES												
Operating Expenses	242.002	40/	242.002	222 460	224 260	240.640	250 220	200 240	270 (50	204 400	202 740	204 450
Personnel Services	213,903	4%	213,903	222,460	231,360	240,610	250,230	260,240	270,650	281,480	292,740	304,450
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)	404.070	4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	404,070	3%	404,070	416,190	428,680	441,540	454,790	468,430	482,480	496,950	511,860	527,220
Other Financing Uses	418,700	3%	418,700	438,170	289,700	298,390	307,340	316,560	326,060	335,840	345,920	356,300
Subtotal Operating Expenses	1,086,673		1,086,673	1,216,820	1,095,340	1,131,960	1,169,830	1,208,990	1,249,500	1,291,390	1,334,720	1,379,540
Wastewater Capital Expenses		201							4 000 400		0.50 =00	
Capital Outlay****	-	3%	-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
SRF loan repayments				405,000	405,000	405,000	405,000	405,000	405,000	405,000	405,000	405,000
Subtotal Capital Expenses				1,499,100	2,539,000	1,333,160	1,092,350	1,887,160	1,784,420	755,000	765,500	776,300
TOTAL EXPENSES	1,086,673		1,086,673	2,715,920	3,634,340	2,465,120	2,262,180	3,096,150	3,033,920	2,046,390	2,100,220	2,155,840
			445 545						.=			240 500
Total Net Revenues	93,077		165,265	26,200	326,460	417,810	447,050	437,350	478,890	523,390	570,390	618,590
- " (-" - 1)	(222 == 2)		(=== ===)	(=== +==)	(+0==0)							2 222 242
Ending WW Fund Balance (All Funds)	(622,576)		(550,388)	(524,188)	(197,728)	220,082	667,132	1,104,482	1,583,372	2,106,762	2,677,152	3,295,742
Reserve Targets			274 672	204.242	272.042	202.000	202.462	202.252	242 262	222.052	222.662	244.002
Operating Expense (25%)	-		271,670	304,210	273,840	282,990	292,460	302,250	312,380	322,850	333,680	344,890
Capital Expense Reserve	-		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Targets:	-		1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250	1,312,380	1,322,850	1,333,680	1,344,890
Reserve Targets Met:		sed on Ian 1st	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Residential Flat Rate

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} From Sewer CIP. Only goes to FY22. Used nominal amount after that escalated.

Table 34: Wastewater Cash Flow – Scenario 4: \$6m SRF Loan \$3m Grants City of Guadalupe

	Budget			Projected								
Scenario 4: \$6m SRF, \$3m Grants	FY2016	Increase	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Assumptions												
Rate Increase*	28.2%		10.0%	7.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CPI Adjustment			1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Growth in Accounts***			0.00%	4.50%	4.50%	4.50%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Connection Fees***			0.00%	2.00%	2.00%	2.00%	1.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interest Rate			0.00%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Beginning WW Fund Balance	(715,653)		(715,653)	(572,259)	(491,319)	(143,769)	279,651	725,231	1,154,611	1,620,371	2,123,191	2,665,281
OPERATING REVENUES												
Sewer Service Charge (1st half of year)	525,000		612,500	585,380	661,480	727,630	771,290	813,710	850,330	888,590	928,580	970,370
Sewer Service Charge (2nd half of year)	525,000	(growth)	487,817	661,480	727,630	771,290	813,710	850,330	888,590	928,580	970,370	1,014,040
Set Up Fees	3,500	2%	3,500	3,570	3,640	3,710	3,780	3,860	3,940	4,020	4,100	4,180
Late Fees	27,000	2%	27,000	27,540	28,090	28,650	29,220	29,800	30,400	31,010	31,630	32,260
Subtotal Operating Revenues	1,080,500		1,130,817	1,277,970	1,420,840	1,531,280	1,618,000	1,697,700	1,773,260	1,852,200	1,934,680	2,020,850
CAPITAL REVENUES												
SRF	=		-	729,000	1,423,000	619,000	458,000	988,000	920,000	233,000	240,000	248,000
Grants	=		-	365,000	711,000	309,000	229,000	494,000	460,000	117,000	120,000	124,000
DJ Farms Develop. Agreement	93,750		93,750	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500	187,500
Wastewater Connection Fees***	5,500	(Growth)	5,500	108,390	110,550	112,760	86,260	29,330	29,920	30,510	31,130	31,750
Subtotal Capital Revenues	99,250		99,250	1,389,890	2,432,050	1,228,260	960,760	1,698,830	1,597,420	568,010	578,630	591,250
Total Revenues	1,179,750		1,230,067	2,667,860	3,852,890	2,759,540	2,578,760	3,396,530	3,370,680	2,420,210	2,513,310	2,612,100
EXPENSES												
Operating Expenses												
Personnel Services	213,903	4%	213,903	222,460	231,360	240,610	250,230	260,240	270,650	281,480	292,740	304,450
Utilities Director (50%)	32,500	4%	32,500	65,000	67,600	70,300	73,110	76,030	79,070	82,230	85,520	88,940
FT Operator (50%) less current PT	17,500	4%	17,500	35,000	36,400	37,860	39,370	40,940	42,580	44,280	46,050	47,890
Additional FT Operator (50%)		4%	-	40,000	41,600	43,260	44,990	46,790	48,660	50,610	52,630	54,740
Supplies & Services	404,070	3%	404,070	416,190	428,680	441,540	454,790	468,430	482,480	496,950	511,860	527,220
Other Financing Uses	418,700	3%	418,700	438,170	289,700	298,390	307,340	316,560	326,060	335,840	345,920	356,300
Subtotal Operating Expenses	1,086,673		1,086,673	1,216,820	1,095,340	1,131,960	1,169,830	1,208,990	1,249,500	1,291,390	1,334,720	1,379,540
Wastewater Capital Expenses												
Capital Outlay****	-	3%	-	1,094,100	2,134,000	928,160	687,350	1,482,160	1,379,420	350,000	360,500	371,300
SRF loan repayments	-		-	276,000	276,000	276,000	276,000	276,000	276,000	276,000	276,000	276,000
Subtotal Capital Expenses	-		-	1,370,100	2,410,000	1,204,160	963,350	1,758,160	1,655,420	626,000	636,500	647,300
TOTAL EXPENSES	1,086,673		1,086,673	2,586,920	3,505,340	2,336,120	2,133,180	2,967,150	2,904,920	1,917,390	1,971,220	2,026,840
Total Net Revenues	93,077		143,394	80,940	347,550	423,420	445,580	429,380	465,760	502,820	542,090	585,260
Ending WW Fund Balance (All Funds)	(622,576)		(572,259)	(491,319)	(143,769)	279,651	725,231	1,154,611	1,620,371	2,123,191	2,665,281	3,250,541
Reserve Targets												
Operating Expense (25%)	-		271,670	304,210	273,840	282,990	292,460	302,250	312,380	322,850	333,680	344,890
Capital Expense Reserve	-		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Total Reserve Targets:	-		1,271,670	1,304,210	1,273,840	1,282,990	1,292,460	1,302,250	1,312,380	1,322,850	1,333,680	1,344,890
Reserve Targets Met:			NO	NO	NO	NO	NO	NO	YES	YES	YES	YES

^{*} First rate increase Feb 1st 2016; rates thereafter increased on Jan 1st

^{**} Residential Flat Rate

^{***} Two different growth rates. Accts: DJ Farms. DJ Farms has a Devel. Agree. DJ Farms Capital Revenue accounted for separately.

^{****} From Sewer CIP. Only goes to FY22. Used nominal amount after that escalated.