BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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Order Instituting Investigation to Consider Policies to Achieve the Commission's Conservation Objectives for Class A Water Utilities.	Investigation 07-01-022 (Filed January 11, 2007)
In the Matter of the Application of Golden State Water Company (U 133 W) for Authority to Implement Changes in Ratesetting Mechanisms and Reallocation of Rates.	Application 06-09-006 (Filed September 6, 2006)
Application of California Water Service Company (U 60 W), a California Corporation, requesting an order from the California Public Utilities Commission Authorizing Applicant to Establish a Water Revenue Balancing Account, a Conservation Memorandum Account, and Implement Increasing Block Rates.	Application 06-10-026 (Filed October 23, 2006)
Application of Park Water Company (U 314 W) for Authority to Implement a Water Revenue Adjustment Mechanism, Increasing Block Rate Design and a Conservation Memorandum Account.	Application 06-11-009 (Filed November 20, 2006)
Application of Suburban Water Systems (U 339 W) for Authorization to Implement a Low Income Assistance Program, an Increasing Block Rate Design, and a Water Revenue Adjustment Mechanism.	Application 06-11-010 (Filed November 22, 2006)
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SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES AND GOLDEN STATE WATER COMPANY ON WRAM & CONSERVATION RATE DESIGN ISSUES

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SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES AND GOLDEN STATE WATER COMPANY ON WRAM & CONSERVATION RATE DESIGN ISSUES

I. GENERAL

A. Pursuant to Article 12 of the Rules of Practice and Procedure of the California Public Utilities Commission ("Commission"), the Division of Ratepayer Advocates ("DRA") and Golden State Water Company ("GSWC" collectively, "the Parties") have agreed on the terms of this Settlement Agreement which they now submit for approval. This Settlement Agreement addresses conservation-oriented increasing block rates and related decoupling mechanisms such as a Water Revenue Adjustment Mechanism ("WRAM") and Modified Cost Balancing Accounts ("MCBA").

B. Since this Settlement Agreement represents a compromise by them, the Parties have entered into each stipulation contained in the Settlement Agreement on the basis that its approval by the Commission not be construed as an admission or concession by any Party regarding any fact or matter of law in dispute in this

proceeding. Furthermore, the Parties intend that the approval of this Settlement Agreement by the Commission not be construed as a precedent or statement of policy of any kind for or against any Party in any current or future proceeding. (Rule 12.5, Commission's Rules on Practice and Procedure.)

C. The Parties agree that no signatory to the Settlement Agreement assumes any personal liability as a result of their agreement. All rights and remedies of the Parties are limited to those available before the Commission. Furthermore, the Settlement Agreement is being presented as an integrated package such that parties are agreeing to the Settlement as a whole, as opposed to agreeing to specific elements of the Settlement.

D. This Settlement Agreement may be executed in counterparts, each of which shall be deemed an original, and the counterparts together shall constitute one and the same instrument.

II. BACKGROUND

A. GSWC provides service to approximately 250,000 customers in three Regions which are comprised of nine ratemaking areas. Table 1 shows GSWC's ratemaking areas grouped by Region.

TABLE 1 – Ratemaking Areas by Regions

	Region I	Region II	Region III
Ratemaking Areas	Arden Cordova Bay Point Clearlake Los Osos Ojai Santa Maria Simi Valley	Region-Wide, one ratemaking area	Region-Wide, one ratemaking area

B. Each of GSWC's ratemaking areas has a tariff but not all customers in a ratemaking area pay the same rate.

C. All of the residential customers in the three Regions with the exception of the Arden Cordova ratemaking area in Region I and the Calipatria service area in Region III have metered service connections. **Attachment 3** shows all of GSWC's ratemaking areas and indicates the frequency of billing and the numbers of metered and flat rate customers.

III. PILOT PROGRAM

A. The Parties agree that the conservation rate design and related decoupling mechanisms (WRAM and MCBA) constitute a Pilot Program to become effective 90 days after a Commission decision adopting the proposed settlement.

a. The 90 day period will allow for the distribution of information regarding conservation rates to customers.

B. This Pilot Program will be reviewed in the next general rate case ("GRC") filing for each Region. The filing dates are pursuant to the proposed decision in the Commission's Rate Case Plan rulemaking proceeding, D.07-05-062.

C. If implementation of the proposed Pilot Program results in a disparate impact on ratepayers or shareholders, the Parties agree to meet to discuss adjustments to the proposed Pilot Program.

IV. CONSERVATION RATE DESIGN

A. Overview

1. Conservation rate designs are proposed for six of the nine GSWC's ratemaking areas (Table 1 shows all GSWC ratemaking areas grouped by Region).

    a. The proposed conservation rate designs are based on calendar year 2006 data evaluated by the Parties using bill frequency analysis (consumption analysis) using meter readings from each of the ratemaking areas. Consequently, the proposed conservation rate designs will differ across ratemaking areas as described below.

2. The Parties propose excluding three ratemaking areas in Region I (Ojai, Arden-Cordova and Clearlake) and two service areas in Region III (Wrightwood and Desert) from conservation rate design in this proposal as discussed below in Section C.

3. The Parties propose interim conservation rate design for remaining ratemaking areas in Region I (Bay Point, Simi Valley, Los Osos, and Santa Maria) as discussed below in Section D.

    a. Following resolution of the pending Region I general rate case in which the Commission will adopt a revenue requirement for all of the ratemaking areas in Region I, GSWC will file an application with revised conservation rates to replace the interim conservation rates proposed in this settlement. These revised conservation rates would be part of the Pilot Program. See Section D.

4. In Regions II and III, the proposed conservation rates for residential customers consist of a reduced service charge and increasing block rates with two tiers.

    a. For non-residential customers, the proposed conservation rates will consist of a reduced service charge and a uniform quantity charge (a single

quantity/volumetric rate) that recovers a greater percentage of fixed cost than the single quantity/volumetric rate which results from the standard rate design currently in place.

B. Conservation Rate Design Grouping

1. For the purpose of designing conservation rates, ratemaking areas were grouped along the existing Regions I, II and III.
2. For Regions II and III, customers were classified as residential or non-residential.
3. Region I residential and non-residential customers will share the same conservation rate design and tariff schedule.
4. Three ratemaking areas in Region I and two service areas in Region III were excluded from conservation rate design in this proposal as discussed in Section C.

C. Ratemaking and service areas excluded from the conservation rate design settlement.

1. Ojai (Region I)
   a. The **Ojai** ratemaking area is excluded because Ojai currently has an increasing three-tier tariff in place that will continue during the proposed Pilot Program.
   b. The Parties are satisfied that the existing tiered tariff sufficiently encourages conservation.
2. Arden Cordova (Region I)
   a. The **Arden Cordova** ratemaking area is excluded because a majority of its customers are unmetered and receive service under a flat rate.
   b. The current percentage of flat rate customers is roughly 72% vs. 28% metered.
   c. GSWC has a transition plan in place to fully meter the Arden Cordova area.
3. Clearlake (Region I)
   a. The **Clearlake** ratemaking area is excluded because average consumption is low in this ratemaking area.
   b. A small number of customers are served in this area.
   c. The Parties agree that the existing single quantity rates and local economic conditions are such that further conservation incentives through rate design are not necessary at this time to motivate customers to reduce their usage.
4. Wrightwood (Region III)
   a. The **Wrightwood** service area is a small area (serves approximately 2600 customers) with groundwater as its sole source of supply.
   b. The Wrightwood service area is excluded because the Commission ordered in D.00-06-075 that the rates in this high-cost service area remain frozen until the rates in the other Region III service areas reach

a similar level and because Wrightwood has experienced water supply constraints that may necessitate a significant capital investment in the near future.

5. Desert (Region III)
    a. The **Desert** service area, which includes Apple Valley and Morongo Valley, is excluded because the Commission ordered in D.00-06-075 that the rates in this high-cost service area remain frozen until the rates in the other Region III service areas reach a similar level.
6. The Parties agree to re-evaluate the excluded ratemaking and service areas in the next GRC for each Region.

D. The Parties agree to delay implementation of revised conservation rates in the remaining ratemaking areas in Region I (i.e., Bay Point, Los Osos, Santa Maria and Simi Valley) pending the determination of a new revenue requirement for Region I. These revised conservation rates would be part of the Pilot Program. The Parties also agree as follows:
    1. In accordance with the Rate Case Plan (RCP) for Class A Water Utilities adopted in D.04-06-018, GSWC filed a General Rate Case application for the seven ratemaking areas in Region I in January 2007. The proceeding is progressing in a timely fashion. However, a final decision determining the Region I revenue requirement is not anticipated until the end of 2007.
    2. For the Bay Point, Los Osos, Santa Maria and Simi Valley service areas in Region I, the Parties propose an interim conservation rate design consisting of a reduced service charge and a uniform quantity charge (a single quantity/volumetric rate) that recovers a greater percentage of fixed cost than the single quantity/volumetric rate that would result from the standard rate design currently in place.
        a. The proposed interim conservation rates would apply to residential and non-residential customers.
        b. The proposed interim conservation rate design meets the requirements of the California Urban Water Conservation Council's ("CUWCC") Best Management Practices (BMP) 11.
    3. Within 90 days of the resolution of the pending Region I GRC, GSWC shall file an application proposing revised conservation rates to replace the interim conservation rates for the Bay Point, Los Osos, Santa Maria and Simi Valley service areas in Region I, as proposed in this settlement.
        a. The application shall propose conservation rates in a manner consistent with those proposed in this settlement.
        b. With respect to its application, GSWC will evaluate if more fixed charges can be moved to the quantity charge consistent with conservation rates proposed in this settlement.

E. Region II and Region III Residential Customers[1] – General Rate Design Parameters

1. **Service Charges -** Conservation Rate Design Parameters
   a. Service charges are used to recover a portion of fixed costs (in traditional rate design, service charges recover approximately 50% of the fixed costs in a service area).
   b. The proposed conservation rate design reduces the amount of fixed cost recovered in the service charge. (Table 2 shows the reduction for each ratemaking area).
      i. To evaluate how much the service charge could be reduced (how much fixed cost could move to the quantity charge), the Parties considered cash flow and ratepayer impact.
      ii. Cash flow refers to GSWC's ability to meet its existing bond covenants given the ratemaking changes and anticipated demand change that would result from implementation of the proposed Pilot Program.

TABLE 2 –Reduction in Fixed Cost Recovery Resulting From Reduction in Service Charge

Ratemaking Areas	Amount Reduced ($)	Percent Reduced
Bay Point	$208,932	12%
Los Osos	$349,894	37%
Santa Maria	$989,812	31%
Simi Valley	$220,480	10%
Region II		
-Residential	$3,278,114	20%
-Non-Residential	$804,400	5%
Region III		
-Residential	$4,068,925	21%
-Non-Residential	$643,769	6%

   c. Ratepayer impact was evaluated through bill impact analysis as described in the Schedules section below.

2. **Quantity (Volumetric) Charges -** Conservation Rate Design Parameters
   a. Quantity (volumetric) charges are used to recover a portion of fixed costs and 100% of the variable cost (in traditional rate design, quantity

[1] The proposed rates for Region II in the Settlement Agreement are based upon the revenue requirements set forth in the proposed decision in GSWC's Region II and General Office Rate Case (A. 06-02-023). The revenue requirements with respect to the General Office will also affect Region III revenue requirements. The decision in the Region II and General Office Rate Case recently was finalized. The Parties will submit updated schedule worksheets in this proceeding to adjust the Region II and Region III customer rates to reflect the new revenue requirements set forth in the final decision.

charges recover approximately 50% of the fixed costs and 100% of the variable cost in a service area).

b. The Parties propose a two tier rate structure to replace the single quantity charge.
    i. Due to movement of additional fixed costs to the quantity charge, a greater percentage of the total revenue requirement comes from volumetric charges.

c. To evaluate where to set the break points for the tiers, the Parties considered cash flow and ratepayer impact.
    i. Cash flow refers to GSWC's ability to meet its existing bond covenants given the ratemaking changes and anticipated demand change that would result from implementation of the proposed Pilot Program.
    ii. Ratepayer impact was evaluated through bill impact analysis as described in the Schedules section below.

d. The proposed rate design is based on the seasonality and consumption in each ratemaking area as determined by a consumption (bill frequency) analysis. Attachment 5 provides a description of the consumption (bill frequency) analysis and the summary statistics used to design the proposed conservation rates.
    i. The source data for the consumption (bill frequency) analysis used was meter readings from calendar year 2006.
    ii. The 2006 data was compared to historical data to ensure it was representative of the historical pattern of consumption.
    iii. Within each service area, customers receiving service on the General Metered Service tariff schedule were classified as residential or non-residential.
        a. Residential customers are all metered customers with classification code "1" representing single residence with one dwelling unit.
        b. Non-Residential customers are all other metered customers with classification code greater than "1". Attachment 4 provides a complete listing of GSWC Customer Classification Code.

e. The proposed conservation rate design in Regions II and III consists of a two-tier increasing block rate structure that is based on seasonal averages which are determined to be a proxy for indoor (low use months) water consumption.
    i. Tier 1 – Metered usage from zero units to the average winter usage (low use months) which the Parties agree provides a proxy for indoor water use and ensures consumers at low and average levels of consumption stay within Tier 1.
    ii. Tier 2 – All consumption above the top of Tier 1.

iii. The tiered rates were designed to be revenue neutral, ensuring that the proposed two-tier rates will result in a sales revenue that is within 1% of what a single quantity rate generates given the same amount of fixed and variable costs allocated to the volumetric charges.
iv. The rate for Tier 1 (which approximates indoor water use) was designed to be approximately 15% less than Tier 2.
v. If the general criteria above do not achieve target revenues, Tier 1 will be adjusted until revenues are within 1% of what a single quantity rate would result in given the same amount of fixed and variable costs allocated to the volumetric charges.

F. Region II and Region III Non-Residential Customers[2]
1. The Parties agree that the conservation rate design proposed for residential customers is currently not feasible for non-residential customers for the following reasons:
    a. Requires reclassification of customers.
    b. Reclassification will require customer and consumption data not available at this time.
2. The Parties propose an interim conservation rate design for non-residential customers in Regions II & III consisting of a reduced service charge and a uniform quantity charge (a single quantity/volumetric rate) that recovers a greater percentage of fixed cost than the single quantity/volumetric rate that would result from the standard rate design currently in place consistent with the following:.
    a. The amount of fixed cost moved to the quantity charge will be based on the bill impact to customers in each service area.
    b. Service charges will be reduced by approximately 5% to 10%, with corresponding increases in the quantity rate to achieve revenue recovery neutrality.
    c. Service charge reduction shall be calculated to achieve no more than a 10% increase in the quantity rate for either of the two non-residential customer quantity rate groupings.

G. Other Customer Classes
1. The Parties agree that rates for the following classes will not change: Other Sales and Services, other utilities for resale, flat-rate service connections and reclaimed/recycled.

[2] See footnote 1.

V. MECHANISMS FOR DECOUPLING SALES AND REVENUE

A. The goals of the decoupling mechanisms in the Pilot Program are as follows:
   1. Sever the relationship between sales and revenue to remove any disincentive for GSWC to implement conservation rates and conservation programs.

   2. Ensure cost savings resulting from conservation are passed on to ratepayers.

   3. Reduce overall water consumption by GSWC ratepayers.

B. Decoupling for GSWC will be accomplished through both of the following mechanisms:
   1. A Water Revenue Adjustment Mechanism (WRAM) for each ratemaking area.

   2. A Modified Cost Balancing Account (MCBA) for each ratemaking area. MCBAs will replace existing cost balancing accounts for purchased power, purchased water, and pump tax.

   3. In accordance with established Commission practice, the WRAM and MCBA accounts will accrue interest at the 90-day commercial paper rate.

VI. WATER REVENUE ADJUSTMENT MECHANISM (WRAM)

A. Each ratemaking area will have a separate WRAM. The WRAM for each ratemaking area will ensure recovery of the portion of GSWC's fixed costs that are recovered through the quantity charge, and all variable costs not included in the MCBA.[3]
   1. The fixed costs not included in the WRAM shall be recovered through the service charge, which are monthly charges that customers pay regardless of consumption.

   2. The variable costs included in the WRAM are variable costs other than purchased power, purchased water, and pump tax.

B. The WRAM will track the difference between Adopted Revenue and Actual Revenue, excluding:
   1. Fire service revenue;

   2. Unmetered Service revenue;

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[3] The MCBA will ensure recovery of actual costs for purchased water, purchased power and pump tax (*see* Section VII) and must be used in conjunction with the WRAM to accomplish revenue decoupling.

3. Other non-general metered service revenue

C. Using Region III, Worksheets 4 through 7 in Attachment 1 provides an example of how the Parties intend for the WRAM and MCBA to operate.

VII. MODIFIED COST BALANCING ACCOUNT (MCBA)

A. The Modified Cost Balancing Accounts (MCBAs) will capture the cost savings and cost increases associated with purchased water, purchased power, and pump taxes.
   1. The costs of purchased water, purchased power, and pump taxes associated with the production of water can vary due to changes in unit cost, supply mix or consumption amount.

B. In particular, the MCBAs will track the difference between Actual Variable Costs and Adopted Variable Costs for the following variable costs (which are recovered through the quantity charge under both the current and proposed rate designs): purchased water, purchased power, and pump tax.

C. An MCBA will replace each of the current balancing accounts, now referred to as Supply Cost Balancing Accounts.
   1. GSWC currently has a Supply Cost Balancing Account for purchased water, purchased power, and pump taxes.

   2. The Supply Cost Balancing Account tracks cost changes attributable to changes in unit price, but not changes in the amount of consumption.

   3. MCBAs track changes in price and quantity.

VIII. MAINTAINING LEAST-COST WATER MIX

A. With regard to changes in the water mix that result in changes in variable costs tracked in the MCBAs, GSWC stipulates that it will exercise due diligence in ensuring the least-cost water mix of its water sources.

   1. Parties agree that the MCBA will track significant changes in purchased water (which in turn affects the amount of purchased power and pump tax).

   2. GSWC will make a showing in the applicable Region's next GRC filing demonstrating that it has exercised due diligence in ensuring the least-cost mix for its water sources, and that any significant change in water purchases was reasonable.

3. For the purpose of this Pilot Program, significant changes in water purchases are defined as when the annual volume of purchased water in a Region is greater than 10% of the purchased water adopted in the most recently adopted test year for that Region.

IX. RECOVERY AND REFUND OF BALANCING ACCOUNTS

A. The Parties agree that conservation rates may cause the amount of water consumed, and thus the cost of water production, to vary significantly.

B. The Parties agree that the desired outcome and purpose of using WRAMs and MCBAs is to ensure that the utility and ratepayers are proportionally affected when conservation rates are implemented.
   1. In the context of this Settlement Agreement, a proportional impact means that, if consumption is over or under the forecast level, the effect on either the utility or ratepayers (as a whole) should reflect that the costs or savings resulting from changes in consumption will be accounted for in a way such that neither the utility or ratepayers are harmed, or benefited, at the expense of the other party.

C. The Parties agree that, in each ratemaking area, the balance in the WRAM will offset the balances in the MCBA in the following manner:
   1. Reporting Requirements: By March 31st of each year, GSWC will provide the Water Division (with a copy to DRA) with a written report on the status of the WRAMs and MCBAs as described herein.

   2. WRAM: The written report will include a section on the WRAM in each ratemaking area showing the revenue over- or under-collection with respect to actual (or recorded) water sales as of December 31st of the preceding calendar year. Differences between Actual Revenues and Adopted Revenues will be tracked in the WRAM and accrue interest at the 90-day commercial paper rate.

   3. MCBA: The written report will include a section on the MCBA in each ratemaking area comparing Actual MCBA Costs with Adopted MCBA Costs as of December 31st of the preceding calendar year. Differences between Actual Costs and Adopted Costs will be tracked in the MCBA and accrue interest at the 90-day commercial paper rate.

   4. If this report shows that the combined over- or under-collection for the WRAM or the MCBA in any ratemaking area exceeds 2.5% of the ratemaking area's total recorded revenue requirement for the prior calendar year, GSWC will file an advice letter within 30 days that amortizes the balance in both of the accounts in the district.

5. The WRAM and MCBA for each ratemaking area will always be considered together for the purposes of seeking recovery or providing refunds to ratepayers and will be netted prior to any refund or recovery.

6. If the 2.5% threshold is not met, these balancing accounts will be amortized in the next GRC.

D. Surcharges and surcredits: Recovery of under-collections and refunds of over-collections will be passed on to ratepayers through volumetric surcharges and surcredits.

X. SCHEDULES

A. Attachment 1 provides rate design and bill impact analysis information for residential and non-residential customers for Regions II & III. Region III appears first, and contains four more worksheets than Region II (Worksheets 4 through 7). For Region III, there are a total of ten worksheets, with the name and number of each worksheet appearing on the top right-hand corner of each page, and the label "Region III Example" appearing at the top left-hand corner of each page. Region II will have six worksheets.

1. Worksheet 1 (Rate Design) shows the proposed rate design for residential and non-residential customers. (Example: "Worksheet 1 RIII Rate Design.")

2. Worksheet 2 (Typical Bills) shows the typical bills for six different residential customer profiles (low usage, annual, winter and summer averages and large and largest usage). The percent of bills with usage at or below each profile is also shown. The profiles show what a customer fitting that profile will experience under the proposed conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs. (Example: "Worksheet 2 RIII Typical Bills.")

3. Worksheet 3 (Bills by Consumption) shows what residential customers will experience under the water conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs. (Example: "Worksheet 3 RIII Bills by Consumption.")
4. Worksheet 4 (MCBA) shows the proposed Modified Cost Balancing Account assuming the demand change shown in Worksheet 7, Demand & Revenue Change. This worksheet is only available for Region III. (Example: "Worksheet 4 RIII MCBA.")

5. Worksheet 5 (WRAM) shows the proposed Water Revenue Adjustment Mechanism assuming the demand change shown in Worksheet 7, Demand & Revenue Change. This worksheet is only available for Region III. (Example: "Worksheet 5 RIII WRAM.")

6. Worksheet 6 (Decoupling) shows the summary calculation for the proposed decoupling of the Region based on the assumptions of the other worksheets. This worksheet is only available for Region III. (Example: "Worksheet 6 RIII Decoupling.")

7. Worksheet 7 (Demand & Revenue Change) shows the projected demand and revenue change projected along with the assumptions of the other worksheets. This worksheet is only available for Region III. (Example: "Worksheet 7 RIII Demand & Revenue Change.")

8. Worksheet 8 (Total Bills) is a chart showing the change in the total bills for residential customers, comparing current and proposed rates. (Example: "Worksheet 8 RIII TB").

9. Worksheet 9 (Average Cost) is a chart showing the average unit cost at various consumption levels, comparing current and proposed rates. The average unit cost is defined as total quantity (volumetric-based) charges divided by usage. (Example: "Worksheet 9 RIII AC").

10. Worksheet 10 (Marginal Cost) is a chart showing the marginal cost curve of the proposed rate structure (the unit rate as it changes from tier to tier). The chart graphically depicts the steps in the rate structure as the price by block changes. (Example: "Worksheet 10 RIII MC.")

B. Attachment 2 contains the schedules for the four ratemaking areas in Region I (Bay Point, Los Osos, Santa Maria and Simi Valley) that will have interim rates as discussed above in Section IV(D). Region I has 4 worksheets per ratemaking area (for a total of 16 worksheets), with the name and number of the worksheet appearing on the top right-hand corner of each page, and the name of the particular ratemaking area appearing on the top left-hand corner of each page. The worksheets appear alphabetically by ratemaking area.

   1. Worksheet 1 (Rate Design) shows the proposed rate design. (Example: "Worksheet 1 BY Rate Design.")

   2. Worksheet 2 (Typical Bills) shows the typical bills for six different residential customer profiles (low usage, annual, winter and summer averages and large and largest usage). The percent of bills with usage at or below each profile is also shown. The profiles show what a customer fitting that profile will experience under the proposed

conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs. (Example: "Worksheet 2 BY Typical Bills.")

3. Worksheet 3 (Bills by Consumption) shows what customers will experience under the water conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs. (Example: "Worksheet 3 BY Bills by Consumption.")

4. Worksheet 4 (Total Bills) is a chart showing the change in the total bills for customers, comparing current and proposed rates. (Example: "Worksheet 4 BY Total Bills").

C. Attachment 3 provides GSWC's current rates and the frequency of billing in each Region/ ratemaking area. There is only one worksheet in Attachment 3.

D. Attachment 4 provides GSWC's current Customer Classification Codes used in categorizing customers as residential and non-residential for Region II and Region III.

E. Attachment 5 provides a description of the consumption analysis used to design the proposed conservation rates.

XI. MONITORING AND DATA COLLECTION

A. DRA and GSWC will develop a Memorandum of Understanding prior to implementing the increasing block rate design to address the collection of data, such as billing and usage data by meter size by month, class of customer, for use in analyzing customer response to increasing block rate design.

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XII. RETURN ON EQUITY

A. The Parties were not able to agree on the impact of the Pilot Program (decoupling and conservation rate design) on return on equity (ROE).

B. The Parties agree that the impact of the Pilot Program (decoupling and conservation rate design) on ROE is not part of this settlement.

C. The Parties agree to defer to the Commission's decision on any impact on ROE if at all.

Respectfully submitted,

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October 19, 2007

Attachment 1

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region III

Proposal:	**Reduce Percent of Fixed Cost Recovered through Meter/Service Charge**
	Keep two - tiered rate design in GSWC's amended application

Standard/Current Rate Design		**Residential**		**Non-Res**		**Total**	
5/8" x 3/4" Equivalent Units (Eus)		109,468		60,619		170,087	
Mtr chg revenue	$	19,375,835	$	10,729,475	$	30,105,311	
Mtr chg $/mo per EU	$	14.75	$	14.75	$	14.75	
Adopted Sales ccf		17,406,943		12,888,253		30,295,196	
Current V target rev	$	30,628,992	$	22,677,974	$	53,306,967	
$/Ccf /Single Quantity Rate		1.7596 Ccf		1.7596 Ccf		1.7596 Ccf	
BPM 11 Threshold Test							
Service Charge % revenue		38.75%		32.12%		36.09%	
Quantity Charge % revenue		61.25%		67.88%		63.91%	
Total		100.00%		100.00%		100.00%	
Rate Summary							
Total Rev Req	$	50,004,828	$	33,407,449	$	83,412,277	
Mtr chg $/EU/mo	$	14.75	$	14.75	$	14.75	
SQR	$	1.760	$	1.760	$	1.7596	
	$	1.760	$	1.760	$	1.7596	this is here to check SQR

Service Charges		**Residential**		**Non-Res**	**Demand Capacity Ratio**
5/8" x 3/4"	$	14.75	$	14.75	1.00
3/4"	$	22.10	$	22.10	1.50
1"	$	36.85	$	36.85	2.50
1.5"	$	73.65	$	73.65	5.00
2"	$	118.00	$	118.00	8.00
3"	$	221.00	$	221.00	15.00
4"	$	368.00	$	368.00	25.00
6"	$	737.00	$	737.00	50.00
8"	$	1,178.00	$	1,178.00	80.00
10"	$	1,694.00	$	1,694.00	115.00
Quantity Charges		**Residential**		**Non-Res**	
Any usage level $/Ccf	**$**	**1.7596**	**$**	**1.7596**	

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region III

Proposal:	**Reduce Percent of Fixed Cost Recovered through Meter/Service Charge**
	Keep two - tiered rate design in GSWC's amended application

District Golden State Region III
Testing Proposed Changes to the Rate Design
Reduce Meter Charge

Proposed		**Residential**		**Non-Res**		**Total**		
Reduce meter charge by		**21%**		**6%**				feeder cell results in lower meter charge
Results in adding these $ to Q rev tar	$	4,068,925	$	643,769	$	4,712,694		
		Residential		**Non-Res**		**Total**		
Equivalent Units		109,468		60,619		170,087		Meter connections expressed as number of std 5/8" meters
Mtr chg rev	$	15,306,910	$	10,085,707	$	25,392,617		
Mtr chg $/mo per EU	$	11.65	$	13.87	$	12.44		$/mo per 5/8" equivalent unit
Adopted Sales ccf		17,406,943 Ccf		12,888,253 Ccf		30,295,196 Ccf		
New V target rev	$	34,697,918	$	23,321,743	$	58,019,660		
New SQR	$	1.993	$	1.810	$	1.915		Feeder cell changes Q rates
BMP 11 Threshold Test								
Service Charge % revenue		30.61%		30.19%		30.44%		
Quantity Charge % revenue		69.39%		69.81%		69.56%		
Total		100.00%		100.00%		100.00%		
Rate Summary								
Total Rev Req	$	50,004,828	$	33,407,449	$	83,412,277	$ 83,412,277	checking it's the same as standard rate design
Mtr chg $/EU/mo	$	11.65	$	13.87	$	12.44		
Q rate if SQR	$	1.993	$	1.810	$	1.915	$ 2,085,307	
Tiered Q rates - blocks are different for res and non res, see rate detail below							0.069	
Block 1	$	1.910						
Block 2	$	2.196						

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region III

Proposal: **Reduce Percent of Fixed Cost Recovered through Meter/Service Charge**
Keep two - tiered rate design in GSWC's amended application

Rate Detail

Size		**Residential**		**Non-Res**	**Ratio**
5/8" x 3/4"	$	11.65	$	13.87	1.00
3/4"	$	17.48	$	20.80	1.50
1"	$	29.13	$	34.66	2.50
1.5"	$	58.26	$	69.33	5.00
2"	$	93.22	$	110.92	8.00
3"	$	174.79	$	207.98	15.00
4"	$	291.31	$	346.63	25.00
6"	$	582.63	$	693.25	50.00
8"	$	932.20	$	1,109.20	80.00
10"	$	1,340.04	$	1,594.48	115.00
12"	$	1,922.66	$	2,287.73	165.00
14"	$	2,621.81	$	3,119.63	225.00

Quantity/Volumetric Based Rates ($/Ccf)

Residential SQR	**$**	**1.9933**							
New Q Revenue Target	**$**	**34,697,918**							
Residential				Tier Rate		New rates	portion of	Ccf estimate	Rev estimate
rate design		Top of Tier		Differentials		TDC PS	sales in block	sales in block	$ sales in block
Tier 1		0 to16		0.96	$	1.910	60.55%	10,539,904 Ccf	$ 20,127,186
Tier 2		17 and up		1.10	$	2.1961	39.45%	6,867,039 Ccf	$ 15,080,432
Top of Tier - Break points		16						17,406,943 Ccf	$ 35,207,618
Non Residential SQR	**$**	**1.8095**			$	1.10170	2.1961		
New Q Revenue Target	**$**	**23,321,743**							
		Number of		portion of		New rates	portion of	Ccf estimate	Rev estimate
		ccf/mo.		SQR		TDC PS	sales in block	sales in block	$ sales in block
All Meters		all		1.0000	$	1.810	100.00%	12,888,253 Ccf	$ 23,321,743

New Variable Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 58,019,660
Total Variable Revenue	$ 58,529,361
Revenue Neutrality Check (New V revenue target - Total (Res & Non- Res) IQR sales) $ diff	$ (509,700)
Revenue Neutrality Check (New V revenue target - Total (Res & Non- Res) IQR sales) as % of New variable rev req	-0.87%

Residential Customer Bill Impact Analysis Golden State Region III
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter/Service Charge Plus Quantity Charges Times Consumption

	Meter Chg	Q Charge
Current	$ 14.75	$ 1.7596
Proposed	$ 11.65	
	Block 1	$ 1.9096
	Block 2	$ 2.1961
Tier 1 Block	16 ccf	

small usage	consumption	5 ccf/mo		
Current bill	$ 23.55			
block	rate	consum	bill	
0 to16	$ 1.9096	5	$ 9.55	
17 and up	$ 2.1961	0	$ -	
		total bill	$ 21.20	
		Percent change in bill		**-9.97%**

annual avg	consumption	18 ccf/mo		
Current bill	$ 46.42		$ 40.00	
block	rate	consum	bill	
0 to16	$ 1.9096	16	$ 30.55	
17 and up	$ 2.1961	2	$ 4.39	
		total bill	$ 46.60	
		Percent change in bill		**0.38%**

Average Winter	consumption	16 ccf/mo		
Current bill	$ 42.90			
block		consum	bill	
0 to16	$ 1.9096	16	$ 30.55	
17 and up	$ 2.1961	0	$ -	
		total bill	$ 42.21	
		Percent change in bill		**-1.62%**

Average summer	consumption	23 ccf/mo		
Current bill	$ 55.22			
block		consum	bill	
0 to16	$ 1.9096	16	$ 30.55	
17 and up	$ 2.1961	7	$ 15.37	
		total bill	$ 60.68	
		Percent change in bill		**9.88%**

Large user	consumption	100 ccf/mo		
Current bill	$ 190.71			
block	rate	consum	bill	
0 to16	$ 1.9096	16	$ 30.55	
17 and up	$ 2.1961	84	$ 184.47	
		total bill	$ 226.68	
		Percent change in bill		**18.86%**

largest user	consumption	1000 ccf/mo		
Current bill	$ 1,774.33			
block	rate	consum	bill	
0 to16	$ 1.9096	16	$ 30.55	
17 and up	$ 2.1961	984	$ 2,160.92	
		total bill	$ 2,203.13	
		Percent change in bill		**24.17%**

Bill Impact Analaysis at Various Usage Levels
Golden State Region III
Change in Bills for Residential Customers with 5/8" x 3/4" Connections

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates					Change in Bills	
Ccf Per	Meter Chg	Qntty Rate	Total	Avg Unit	Meter Chg	Tier 1	Tier 2	Proposed	Proposed Avg	Dollar ($)	Percent (%)
Month	Charge	$1.7596	Bill	Cost	Charge	$1.9096	$2.1961	Total Bill	Unit Cost	Difference	Difference
0	14.75	0.00	14.75	0.00	11.65	0.00		11.65	0.00	-3.10	-21.00%
1	14.75	1.76	16.51	1.76	11.65	1.91		13.56	1.91	-2.95	-17.85%
2	14.75	3.52	18.27	1.76	11.65	3.82		15.47	1.91	-2.80	-15.31%
3	14.75	5.28	20.03	1.76	11.65	5.73		17.38	1.91	-2.65	-13.22%
4	14.75	7.04	21.79	1.76	11.65	7.64		19.29	1.91	-2.50	-11.46%
5	14.75	8.80	23.55	1.76	11.65	9.55		21.20	1.91	-2.35	-9.97%
7	14.75	12.32	27.07	1.76	11.65	13.37		25.02	1.91	-2.05	-7.56%
9	14.75	15.84	30.59	1.76	11.65	17.19		28.84	1.91	-1.75	-5.71%
16	**14.75**	**28.15**	**42.90**	**1.76**	**11.65**	**30.55**	**-**	**42.21**	1.91	**-0.70**	**-1.62%**
17	14.75	29.91	44.66	1.76	11.65	30.55	**2.20**	44.40	1.93	-0.26	-0.58%
20	14.75	35.19	49.94	1.76	11.65	30.55	**8.78**	50.99	1.97	1.05	2.10%
25	14.75	43.99	58.74	1.76	11.65	30.55	**19.76**	61.97	2.01	3.23	5.50%
30	14.75	52.79	67.54	1.76	11.65	30.55	**30.74**	72.95	2.04	5.41	8.02%
32	14.75	56.31	71.06	1.76	11.65	30.55	**35.14**	77.34	2.05	6.29	8.85%
34	14.75	59.83	74.58	1.76	11.65	30.55	**39.53**	81.74	2.06	7.16	9.60%
38	14.75	66.86	81.61	1.76	11.65	30.55	**48.31**	90.52	2.08	8.91	10.91%
40	14.75	70.38	85.13	1.76	11.65	30.55	**52.71**	94.91	2.08	9.78	11.49%
45	14.75	79.18	93.93	1.76	11.65	30.55	**63.69**	105.89	2.09	11.96	12.73%
50	14.75	87.98	102.73	1.76	11.65	30.55	**74.67**	116.87	2.10	14.14	13.77%
60	14.75	105.58	120.33	1.76	11.65	30.55	**96.63**	138.83	2.12	18.51	15.38%
75	14.75	131.97	146.72	1.76	11.65	30.55	**129.57**	171.77	2.13	25.06	17.08%
100	14.75	175.96	190.71	1.76	11.65	30.55	**184.47**	226.68	2.15	35.97	18.86%
125	14.75	219.95	234.70	1.76	11.65	30.55	**239.37**	281.58	2.16	46.88	19.97%
150	14.75	263.94	278.69	1.76	11.65	30.55	**294.27**	336.48	2.17	57.79	20.74%
175	14.75	307.93	322.68	1.76	11.65	30.55	**349.17**	391.38	2.17	68.70	21.29%
200	14.75	351.92	366.67	1.76	11.65	30.55	**404.08**	446.28	2.17	79.61	21.71%
400	14.75	703.83	718.58	1.76	11.65	30.55	**843.29**	885.49	2.18	166.91	23.23%
800	14.75	1407.67	1422.42	1.76	11.65	30.55	**1,721.71**	1763.92	2.19	341.50	24.01%
1000	14.75	1759.58	1774.33	1.76	11.65	30.55	**2,160.92**	2203.13	2.19	428.79	24.17%
1500	14.75	2639.38	2654.13	1.76	11.65	30.55	**3,258.95**	3301.16	2.19	647.03	24.38%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a two tier increasing block quantity rate
4 - Average unit cost is calculated as usage times proposed quantity rates (which are tiered rates) divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills

Proposed Modified Cost Balancing Account **Golden State Region III**

Balances Adopted Quantities and Unit Price to Actual Quantity and Unit Price

At Year End of When Threshhold is Met the Account Balance is used with the WRAM Balance to Adjust Adopted Revenues to Actual Revenues

Decision			2006/07					Adopted VC recovered through rates	Actual Variable Cost Incurred by Utility	Adpted Minus Actual	
		Quantities (Sales) in Ccf				Price in $/Ccf					
Month	Adopted Production CCF	Actual Production CCF	Metered Actual Sales	Below (above) Adopted	Adopted Rate	Actual Rate	Below (above) Adopted	Cost Recovered	Cost Incurred	Dollar ($) Difference	MCBA Adjustments
Jan	2,036,560	1,988,511	1,854,053	48,050	0.7134	0.7134	-	1,452,863	1,418,585	34,278	(34,278)
Feb	1,965,477	1,919,105	1,789,340	46,372	0.7134	0.7134	-	1,402,153	1,369,071	33,082	(33,082)
March	1,812,156	1,769,401	1,649,759	42,755	0.7134	0.7134	-	1,292,775	1,262,274	30,501	(30,501)
April	2,028,563	1,980,702	1,846,772	47,861	0.7134	0.7134	-	1,447,158	1,413,014	34,143	(34,143)
May	2,500,898	2,441,893	2,276,779	59,004	0.7134	0.7134	-	1,784,117	1,742,024	42,093	(42,093)
June	2,942,735	2,873,306	2,679,021	69,429	0.7134	0.7134	-	2,099,320	2,049,790	49,530	(49,530)
July	3,577,281	3,492,881	3,256,702	84,400	0.7134	0.7134	-	2,551,999	2,491,789	60,210	(60,210)
August	3,546,924	3,463,240	3,229,065	83,683	0.7134	0.7134	-	2,530,342	2,470,643	59,699	(59,699)
September	3,928,731	3,836,039	3,576,656	92,692	0.7134	0.7134	-	2,802,720	2,736,594	66,126	(66,126)
October	3,237,147	3,160,772	2,947,049	76,375	0.7134	0.7134	-	2,309,350	2,254,865	54,485	(54,485)
November	2,805,593	2,739,400	2,554,169	66,193	0.7134	0.7134	-	2,001,483	1,954,262	47,221	(47,221)
December	2,281,961	2,228,123	2,077,463	53,839	0.7134	0.7134	-	1,627,930	1,589,522	38,408	(38,408)
Totals	32,664,025	31,893,374	29,736,828	770,652				23,302,210	22,752,434	549,776	(549,776)

Projected WRAM Balance
District **Golden State Region III**

WRAM balance **$ 659,943**

	Total	Residential	Non-Res
Adopted Q revenue target	$ 58,019,660	$ 34,697,918	$ 23,321,743
Actual revenue	57,359,717	34,302,792	23,056,925
WRAM Balance - Adopted minus Actual	$ 659,943	$ 395,126	$ 264,817
difference as % of adopted	1.14%	1.14%	1.14%

	Total	Residential	Non-Res
Adopted quantity	30,295,196 Ccf	17,406,943 Ccf	12,888,253 Ccf
Actual quantity	29,736,828 Ccf	16,994,921 Ccf	12,741,908 Ccf
	558,368 Ccf	412,022 Ccf	146,346 Ccf
difference as % of adopted	1.84%	2.37%	1.14%

Adopted rate $ 1.9151 refers to the single quantity rate needed to recover the quantity charge revenue target

Projected Revenue $	**Monthly Consumption Spread**	**Total Adopted Sales**	**Total Actual Sales**	**Total Adopted Revenue**	**Total Actual Revenue**	**Adopted Minus Actual**
Jan	6.23%	1,888,867 Ccf	1,854,053 Ccf	$ 3,617,452	$ 3,576,305	$ 41,147
Feb	6.02%	1,822,939 Ccf	1,789,340 Ccf	$ 3,491,190	$ 3,451,480	$ 39,710
March	5.55%	1,680,737 Ccf	1,649,759 Ccf	$ 3,218,852	$ 3,182,240	$ 36,613
April	6.21%	1,881,449 Ccf	1,846,772 Ccf	$ 3,603,246	$ 3,562,261	$ 40,985
May	7.66%	2,319,530 Ccf	2,276,779 Ccf	$ 4,442,234	$ 4,391,706	$ 50,528
June	9.01%	2,729,325 Ccf	2,679,021 Ccf	$ 5,227,050	$ 5,167,595	$ 59,455
July	10.95%	3,317,853 Ccf	3,256,702 Ccf	$ 6,354,166	$ 6,281,890	$ 72,275
August	10.86%	3,289,697 Ccf	3,229,065 Ccf	$ 6,300,243	$ 6,228,581	$ 71,662
September	12.03%	3,643,815 Ccf	3,576,656 Ccf	$ 6,978,431	$ 6,899,055	$ 79,376
October	9.91%	3,002,386 Ccf	2,947,049 Ccf	$ 5,750,000	$ 5,684,597	$ 65,403
November	8.59%	2,602,128 Ccf	2,554,169 Ccf	$ 4,983,450	$ 4,926,766	$ 56,684
December	6.99%	2,116,471 Ccf	2,077,463 Ccf	$ 4,053,347	$ 4,007,242	$ 46,105
	100.00%	30,295,196 Ccf	29,736,828 Ccf	$ 58,019,660	$ 57,359,717	$ 659,943

Settlement - Summary Calculations on Proposed Decoupling Mechanisms
District: Golden State Region III

Negative balance is over collection , Positive balance is under collection

	Adopted	Actual(1)	Difference	
Quantities (Ccf)	30,295,196 Ccf	29,736,828 Ccf	558,368 Ccf	
Revenue Requirement	$ 83,412,277	**$ 82,862,501**	$ 549,776	Actual is adopted revenue requirement with MCBA adjustments
Quantity charge revenue	$ 58,019,660	$ 57,359,717	$ 659,943	Billed consumption
MCBA (Purchased water and power)	$ 23,302,210	$ 22,752,434	$ 549,776	Adopted minus actual, positive number is over collection
Service Charge Revenues	$ 25,392,617	$ 25,392,617	$ -	Adopted value used as actual since WRAM does not adjust for SC
Revenue	$ 83,412,277	$ 82,752,334	$ 659,943	Adopted minus actual, positive number is under collection

Balancing Accounts		
WRAM balance	$ 659,943	positive is under collection (see WRAM table for detail)
MCBA adjustment	$ (549,776)	negative balance is over collection (See MCBA table for detail)
WRAM surcharge	$ 110,167	amount to be surcharged on a $/Ccf basis
		Surcharge shows as a separate line item on bills when account balance is amortized

Revenue received by utility		
Quantity charge revenue	$ 57,359,717	billed consumption
Service Charge Revenues	$ 25,392,617	Adopted value used as actual since WRAM does not adjust for SC
WRAM surcharge/(credit)	$ 110,167	see above
Total revenue received by utility	**$ 82,862,501**	

Demand & Revenue Change Projections
Golden State Region III

Projected Revenue $	Total Adopted Sales	Total Adopted Revenue	Residential Revenue - Projected Actuals: Total Sales	Tier 1 $ 1.9096	Tier 2 $ 2.1961	Total Residential	Non-Residential Revenue - Projected Actuals: Total Sales	All Meters $ 1.8095	Total Non- Residential	Total Actual Revenue	Adopted Minus Actual
Jan	1,888,867 Ccf	$ 3,617,452	1,059,612	$ 1,254,904	$ 883,831	$ 2,138,735	794,442	$ 1,437,570	$ 1,437,570	$ 3,576,305	$ 41,147
Feb	1,822,939 Ccf	$ 3,491,190	1,022,627	$ 1,211,104	$ 852,982	$ 2,064,086	766,713	$ 1,387,394	$ 1,387,394	$ 3,451,480	$ 39,710
March	1,680,737 Ccf	$ 3,218,852	942,855	$ 1,116,629	$ 786,443	$ 1,903,073	706,904	$ 1,279,167	$ 1,279,167	$ 3,182,240	$ 36,613
April	1,881,449 Ccf	$ 3,603,246	1,055,451	$ 1,249,976	$ 880,360	$ 2,130,336	791,322	$ 1,431,925	$ 1,431,925	$ 3,562,261	$ 40,985
May	2,319,530 Ccf	$ 4,442,234	1,301,204	$ 1,541,024	$ 1,085,345	$ 2,626,369	975,575	$ 1,765,337	$ 1,765,337	$ 4,391,706	$ 50,528
June	2,729,325 Ccf	$ 5,227,050	1,531,090	$ 1,813,279	$ 1,277,095	$ 3,090,373	1,147,931	$ 2,077,222	$ 2,077,222	$ 5,167,595	$ 59,455
July	3,317,853 Ccf	$ 6,354,166	1,861,241	$ 2,204,278	$ 1,552,476	$ 3,756,755	1,395,461	$ 2,525,136	$ 2,525,136	$ 6,281,890	$ 72,275
August	3,289,697 Ccf	$ 6,300,243	1,845,446	$ 2,185,572	$ 1,539,302	$ 3,724,874	1,383,619	$ 2,503,707	$ 2,503,707	$ 6,228,581	$ 71,662
September	3,643,815 Ccf	$ 6,978,431	2,044,098	$ 2,420,838	$ 1,704,999	$ 4,125,837	1,532,558	$ 2,773,218	$ 2,773,218	$ 6,899,055	$ 79,376
October	3,002,386 Ccf	$ 5,750,000	1,684,270	$ 1,994,692	$ 1,404,864	$ 3,399,556	1,262,778	$ 2,285,041	$ 2,285,041	$ 5,684,597	$ 65,403
November	2,602,128 Ccf	$ 4,983,450	1,459,735	$ 1,728,773	$ 1,217,577	$ 2,946,350	1,094,433	$ 1,980,415	$ 1,980,415	$ 4,926,766	$ 56,684
December	2,116,471 Ccf	$ 4,053,347	1,187,293	$ 1,406,118	$ 990,331	$ 2,396,448	890,170	$ 1,610,794	$ 1,610,794	$ 4,007,242	$ 46,105
	30,295,196 Ccf	58,019,660	16,994,921	20,127,186	14,175,606	34,302,792	12,741,908	23,056,925	23,056,925	$ 57,359,717	$ 659,943

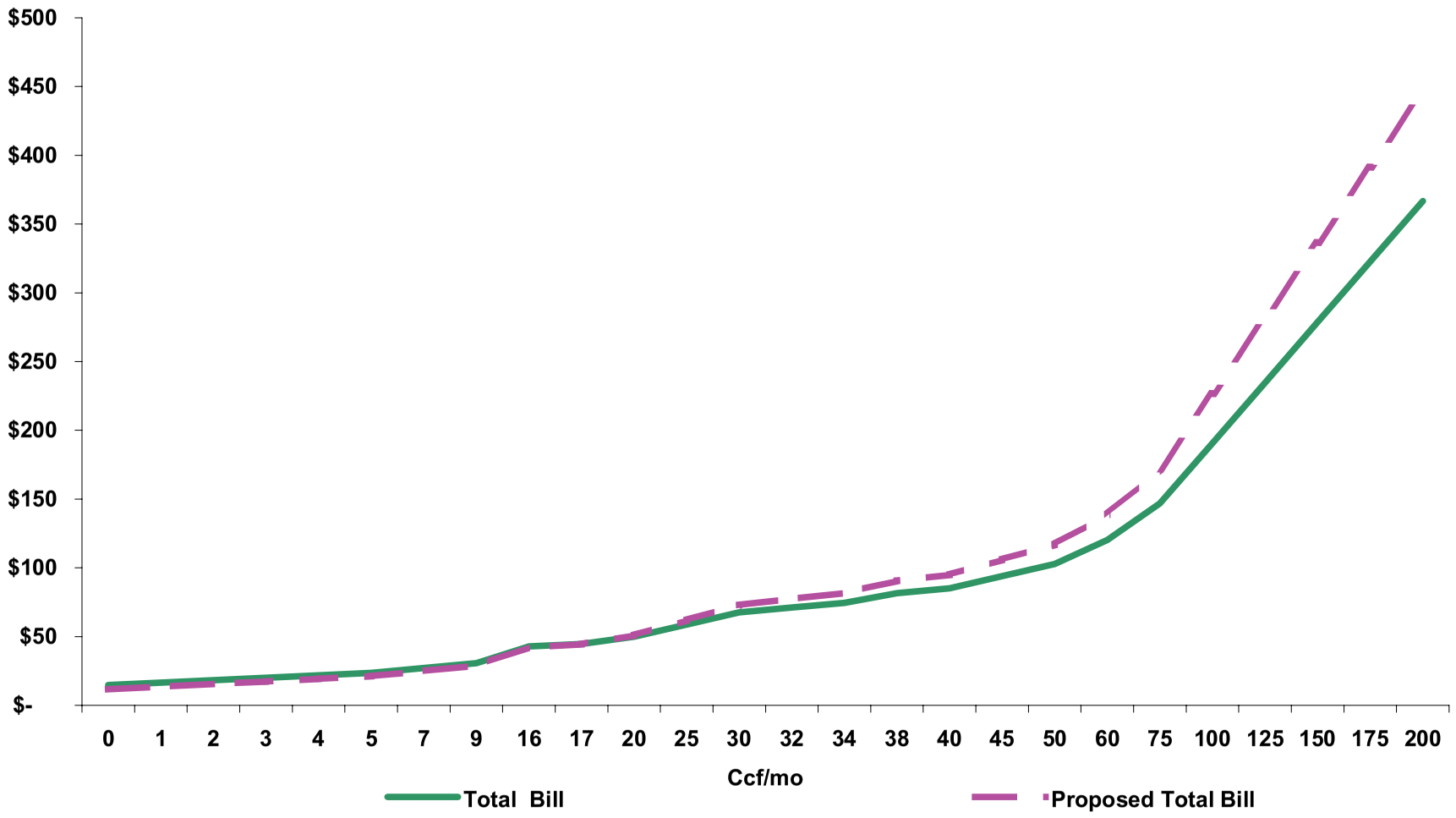
Projected Consumption Ccf	Total Adopted Sales	Monthly Consumption Spread	Projected Sales	Tier 1 60.55%	Tier 2 39.45%	Actual Sales	Non-Residential Sales - Projected Actuals: Adopted Sales	All Meters 100.00%	Actual Sales	Total Actual Sales	Adopted Minus Actual
Jan	1,888,867 Ccf	6.23%	1,085,301 Ccf	657,150 Ccf	402,462 Ccf	1,059,612 Ccf	803,566 Ccf	794,442 Ccf	794,442 Ccf	1,854,053 Ccf	34,814 Ccf
Feb	1,822,939 Ccf	6.02%	1,047,420 Ccf	634,213 Ccf	388,415 Ccf	1,022,627 Ccf	775,519 Ccf	766,713 Ccf	766,713 Ccf	1,789,340 Ccf	33,599 Ccf
March	1,680,737 Ccf	5.55%	965,714 Ccf	584,740 Ccf	358,116 Ccf	942,855 Ccf	715,023 Ccf	706,904 Ccf	706,904 Ccf	1,649,759 Ccf	30,978 Ccf
April	1,881,449 Ccf	6.21%	1,081,039 Ccf	654,569 Ccf	400,882 Ccf	1,055,451 Ccf	800,411 Ccf	791,322 Ccf	791,322 Ccf	1,846,772 Ccf	34,677 Ccf
May	2,319,530 Ccf	7.66%	1,332,750 Ccf	806,980 Ccf	494,224 Ccf	1,301,204 Ccf	986,780 Ccf	975,575 Ccf	975,575 Ccf	2,276,779 Ccf	42,751 Ccf
June	2,729,325 Ccf	9.01%	1,568,209 Ccf	949,551 Ccf	581,539 Ccf	1,531,090 Ccf	1,161,116 Ccf	1,147,931 Ccf	1,147,931 Ccf	2,679,021 Ccf	50,304 Ccf
July	3,317,853 Ccf	10.95%	1,906,364 Ccf	1,154,304 Ccf	706,937 Ccf	1,861,241 Ccf	1,411,489 Ccf	1,395,461 Ccf	1,395,461 Ccf	3,256,702 Ccf	61,151 Ccf
August	3,289,697 Ccf	10.86%	1,890,186 Ccf	1,144,508 Ccf	700,938 Ccf	1,845,446 Ccf	1,399,511 Ccf	1,383,619 Ccf	1,383,619 Ccf	3,229,065 Ccf	60,632 Ccf
September	3,643,815 Ccf	12.03%	2,093,655 Ccf	1,267,708 Ccf	776,390 Ccf	2,044,098 Ccf	1,550,160 Ccf	1,532,558 Ccf	1,532,558 Ccf	3,576,656 Ccf	67,159 Ccf
October	3,002,386 Ccf	9.91%	1,725,104 Ccf	1,044,550 Ccf	639,720 Ccf	1,684,270 Ccf	1,277,282 Ccf	1,262,778 Ccf	1,262,778 Ccf	2,947,049 Ccf	55,337 Ccf
November	2,602,128 Ccf	8.59%	1,495,125 Ccf	905,298 Ccf	554,437 Ccf	1,459,735 Ccf	1,107,003 Ccf	1,094,433 Ccf	1,094,433 Ccf	2,554,169 Ccf	47,959 Ccf
December	2,116,471 Ccf	6.99%	1,216,077 Ccf	736,335 Ccf	450,958 Ccf	1,187,293 Ccf	900,394 Ccf	890,170 Ccf	890,170 Ccf	2,077,463 Ccf	39,008 Ccf
	30,295,197 Ccf	100.00%	17,406,943 Ccf	10,539,904 Ccf	6,455,017 Ccf	16,994,921 Ccf	12,888,253 Ccf	12,741,908 Ccf	12,741,908 Ccf	29,736,828 Ccf	558,369 Ccf

Residential

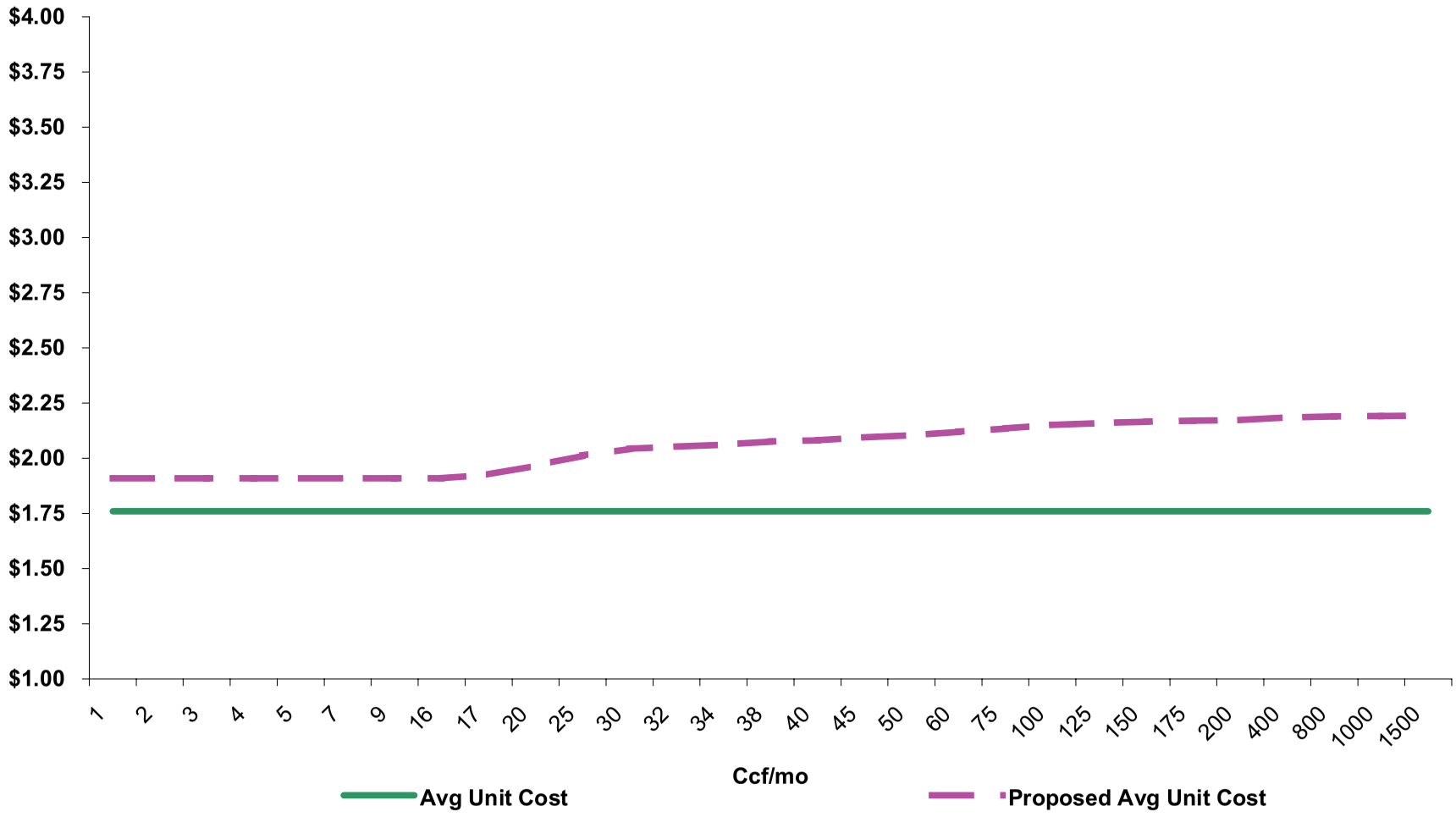
SQR = Single quantity rate		**$ 1.993**			
Residential	Potion of SQR		**% diff btwn tiers**	**Price chng frm SQR**	**D chng if e = 0.4**
Tier 1	0.96	**$ 1.910**		**-4.38%**	**0.00%**
Tier 2	1.10	**$ 2.196**	**15.00%**	**10.17%**	**-6.00%**

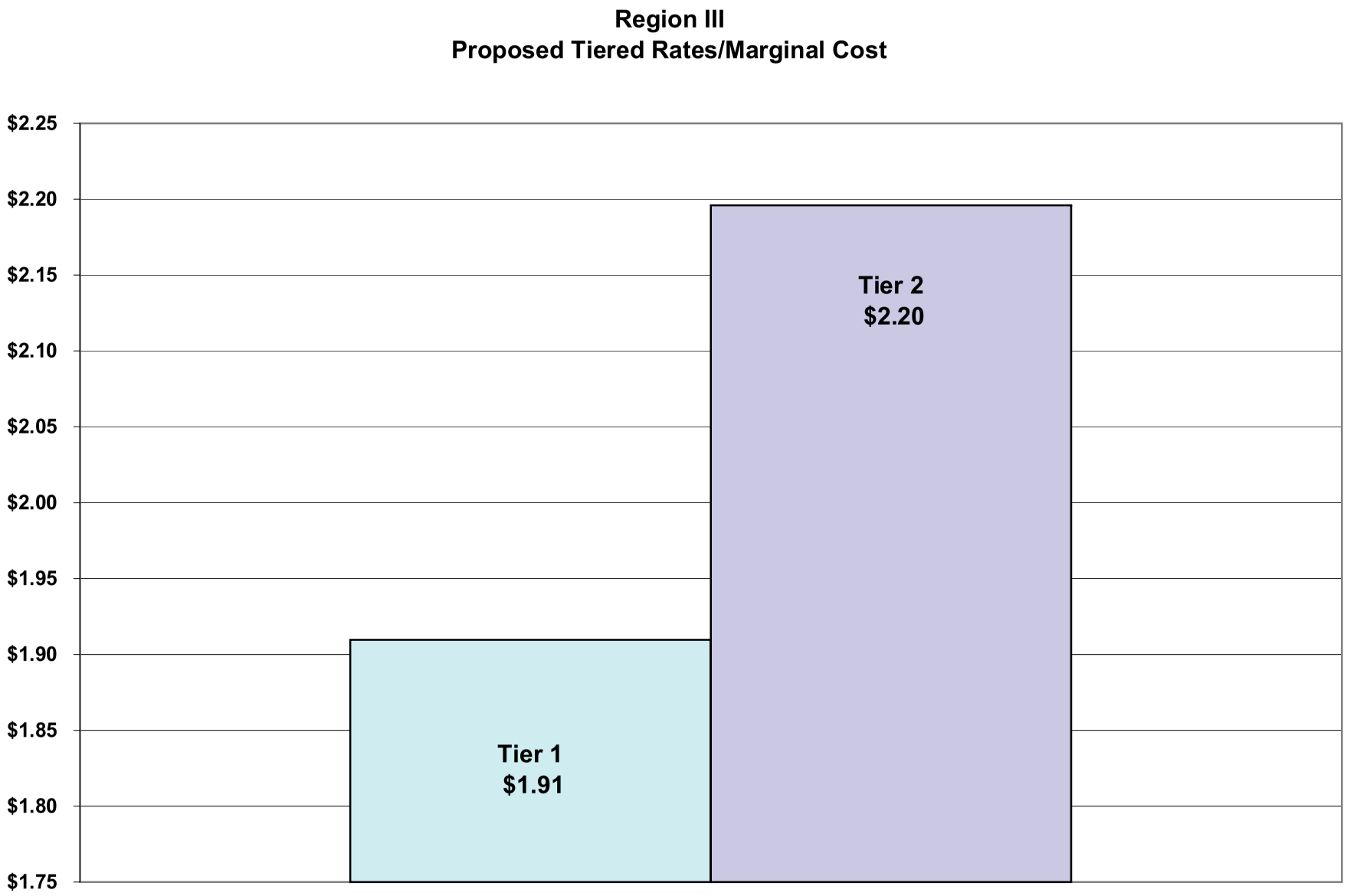
Non-Residential			**% diff**	**Price chng**	**D chng**
SQR = Single quantity rate	**$**	**1.810**	**btwn tiers**	**frm SQR**	**if e = 0.4**
All Meters	**$**	**1.810**	**2.84%**	**0.00%**	**-1.14%**

Region III
Total Bills for Residential Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)



Region III
Average Unit Cost
Comparing Current and Proposed Rates
(shows quantity rates times usage divided by usage)




Region III
Proposed Tiered Rates/Marginal Cost
$2.25
$2.20
$2.15
$2.10
$2.05
$2.00
$1.95
$1.90
$1.85
$1.80
$1.75
Tier 2
$2.20
Tier 1
$1.91

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region II

Proposal:	Reduce Percent of Fixed Cost Recovered through Meter/Service Charge Keep two - tiered rate design in GSWC's amended application

Standard/Current Rate Design		Residential		Non-Res		Total	
5/8" x 3/4" Equivalent Units (Eus)		81,061		79,565		160,626	
Mtr chg revenue	$	16,390,570	$	16,088,007	$	32,478,577	
Mtr chg $/mo per EU	$	16.85	$	16.85	$	16.85	
Adopted Sales ccf		11,702,758		17,403,110		29,105,868	
Current V target rev	$	24,808,444	$	36,892,506	$	61,700,950	
$/Ccf /Single Quantity Rate		2.120 Ccf		2.120 Ccf		2.120 Ccf	
BMP 11 Threshold check							
Service Charge % revenue		39.78%		30.37%		34.49%	
Quantity Charge % revenue		60.22%		69.63%		65.51%	
Total		100.00%		100.00%		100.00%	
Rate Summary							
Total Rev Req	$	41,199,014	$	52,980,513	$	94,179,527	
Mtr chg $/EU/mo	$	16.85	$	16.85	$	16.85	
SQR	$	2.120	$	2.120	$	2.120	
	$	2.120	$	2.120	$	2.120	this is here to check SQR

Service Charges		Residential		Non-Res	Demand Capacity Ratio
5/8" x 3/4"	$	16.85	$	16.85	1.00
3/4"	$	25.25	$	25.25	1.50
1"	$	42.10	$	42.10	2.50
1.5"	$	84.20	$	84.20	5.00
2"	$	134.75	$	134.75	8.00
3"	$	252.25	$	252.25	15.00
4"	$	421.40	$	421.40	25.00
6"	$	841.80	$	841.80	50.00
8"	$	1,346.30	$	1,346.30	80.00
10"	$	1,935.85	$	1,935.85	115.00
Quantity Charges		**Residential**		**Non-Res**	
Any usage level $/Ccf	**$**	**2.1199**	**$**	**2.1199**	

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region II

Proposal:	**Reduce Percent of Fixed Cost Recovered through Meter/Service Charge**
	Keep two - tiered rate design in GSWC's amended application

District **Golden State Region II**
Testing Proposed Changes to the Rate Design
Reduce Meter Charge

Proposed		**Residential**		**Non-Res**		**Total**		
Reduce meter charge by		**20%**		**5%**				feeder cell results in lower meter charge
Results in adding these $ to Q rev tar	$	3,278,114	$	804,400	$	4,082,514		
		Residential		**Non-Res**		**Total**		
Equivalent Units		81,061		79,565		160,626		Meter connections expressed as number of std 5/8" meters
Mtr chg rev	$	13,112,456	$	15,283,607	$	28,396,063		
Mtr chg $/mo per EU	$	13.48	$	16.01	$	14.73		$/mo per 5/8" equivalent unit
Adopted Sales ccf		11,702,758 Ccf		17,403,110 Ccf		29,105,868 Ccf		
New V target rev	$	28,086,558	$	37,696,906	$	65,783,464		
New SQR	$	2.400	$	2.166	$	2.260		Feeder cell changes Q rates
BMP 11 Threshold check								
Service Charge % revenue		31.83%		28.85%		30.15%		
Quantity Charge % revenue		68.17%		71.15%		69.85%		
Total		100.00%		100.00%		100.00%		
Rate Summary								
Total Rev Req	$	41,199,014	$	52,980,513	$	94,179,527	$ 94,179,527	checking it's the same as standard rate design
Mtr chg $/EU/mo	$	13.48	$	16.01	$	14.73		
Q rate if SQR	$	2.400	$	2.166	$	2.260	$ 2,354,488	
Tiered Q rates - blocks are different for res and non res, see rate detail below								
Block 1	$	2.304	$	2.166				
Block 2	$	2.650	$	2.166				

Proposed Settlement Rate Design and Revenue Check Model
District: Golden State Region II

Proposal: **Reduce Percent of Fixed Cost Recovered through Meter/Service Charge**
Keep two - tiered rate design in GSWC's amended application

Rate Detail

Size		Residential		Non-Res	Ratio
5/8" x 3/4"	$	13.48	$	16.01	1.00
3/4"	$	20.22	$	24.01	1.50
1"	$	33.70	$	40.02	2.50
1.5"	$	67.40	$	80.04	5.00
2"	$	107.84	$	128.06	8.00
3"	$	202.20	$	240.11	15.00
4"	$	337.00	$	400.19	25.00
6"	$	674.00	$	800.38	50.00
8"	$	1,078.40	$	1,280.60	80.00
10"	$	1,550.20	$	1,840.86	115.00
12"	$	2,224.20	$	2,641.24	165.00
14"	$	3,033.00	$	3,601.69	225.00

Quantity/Volumetric Based Rates ($/Ccf)

SQR	**$**	**2.4000**							
New Q Revenue Target	**$**	**28,086,558**							
Residential				Differentials		New rates	portion of	Ccf estimate	Rev estimate
rate design		Top of Tier		Between tiers		TDC PS	sales in block	sales in block	$ sales in block
Tier 1		0 to12		0.96	$	2.304	58.91%	6,894,095 Ccf	$ 15,883,960
Tier 2		13 and up		1.10	$	2.650	41.09%	4,808,663 Ccf	$ 12,741,006
Top of Tier - Break points		12						11,702,758 Ccf	$ 28,624,966
Non Residential SQR	**$**	**2.1661**							
New Q Revenue Target	**$**	**37,696,906**							
		Number of		portion of		New rates	portion of	Ccf estimate	Rev estimate
		ccf/mo.		SQR		TDC PS	sales in block	sales in block	$ sales in block
All Meters		all		1.0000	$	2.166	100.00%	17,403,110 Ccf	$ 37,696,906

New Variable Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 65,783,464
Total Variable Revenue	$ 66,321,872
Revenue Neutrality Check (New V revenue target - Total (Res & Non- Res) IQR sales) $ diff	$ (538,408)
Revenue Neutrality Check (New V revenue target - Total (Res & Non- Res) IQR sales) as % of New variable rev req	-0.81%

Residential Customer Bill Impact Analysis **Golden State Region II**
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter/Service Charge Plus Quantity Charges Times Consumption

	Meter Chg	Q Charge
Current	$ 16.85	$ 2.1199
Proposed	$ 13.48	
	Block 1	$ 2.3040
	Block 2	$ 2.6496
Tier 1 Block	12 ccf	

small usage	consumption	5 ccf/mo		
Current bill	$ 27.45			
block	rate	consum	bill	
0 to12	$ 2.3040	5	$ 11.52	
13 and up	$ 2.6496	0	$ -	
		total bill	$ 25.00	
		Percent change in bill		**-8.92%**

annual avg	consumption	13 ccf/mo		
Current bill	$ 44.41		$ 40.00	
block	rate	consum	bill	
0 to12	$ 2.3040	12	$ 27.65	
13 and up	$ 2.6496	1	$ 2.65	
		total bill	$ 43.78	
		Percent change in bill		**-1.42%**

Average Winter	consumption	12 ccf/mo		
Current bill	$ 42.29			
block		consum	bill	
0 to12	$ 2.3040	12	$ 27.65	
13 and up	$ 2.6496	0	$ -	
		total bill	$ 41.13	
		Percent change in bill		**-2.74%**

Average summer	consumption	15 ccf/mo		
Current bill	$ 48.65			
block		consum	bill	
0 to12	$ 2.3040	12	$ 27.65	
13 and up	$ 2.6496	3	$ 7.95	
		total bill	$ 52.45	
		Percent change in bill		**7.81%**

Large user	consumption	100 ccf/mo		
Current bill	$ 228.84			
block	rate	consum	bill	
0 to12	$ 2.3040	12	$ 27.65	
13 and up	$ 2.6496	88	$ 233.16	
		total bill	$ 274.29	
		Percent change in bill		**19.86%**

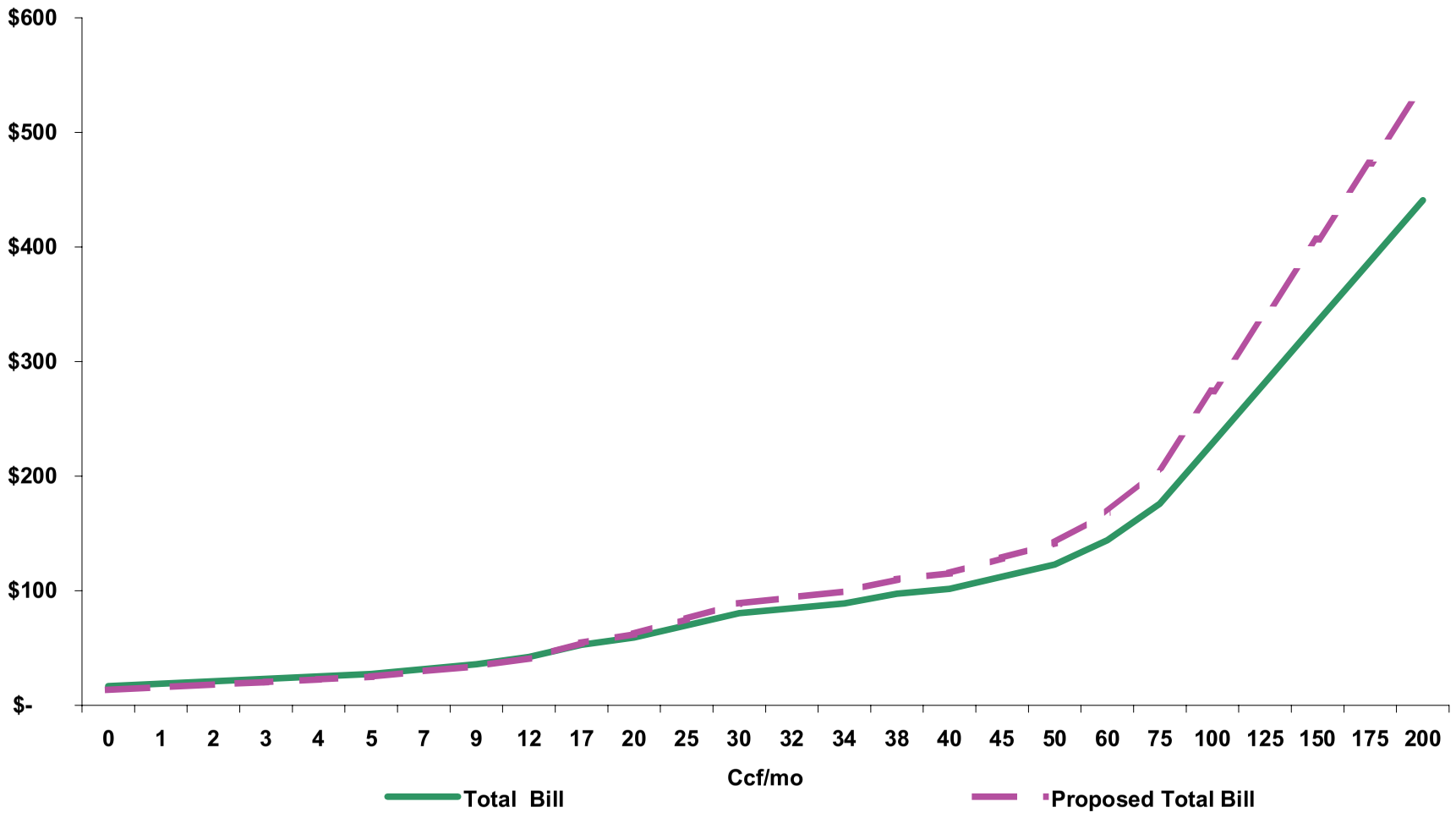
largest user	consumption	1000 ccf/mo		
Current bill	$ 2,136.73			
block	rate	consum	bill	
0 to12	$ 2.3040	12	$ 27.65	
13 and up	$ 2.6496	988	$ 2,617.80	
		total bill	$ 2,658.93	
		Percent change in bill		**24.44%**

Bill Impact Analaysis at Various Usage Levels
Golden State Region II
Change in Bills for Residential Customers with 5/8" x 3/4" Connections

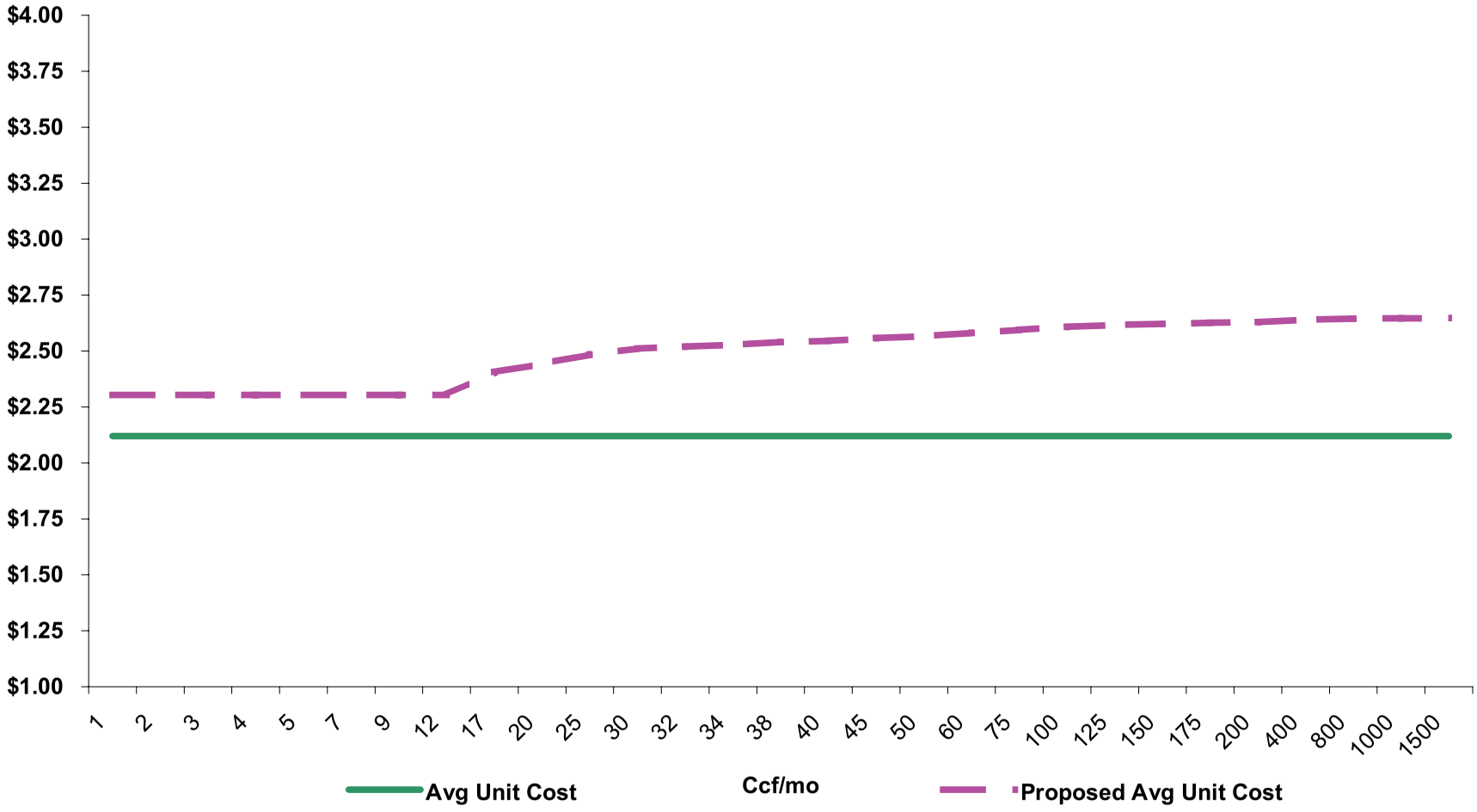
Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates					Change in Bills	
Ccf Per	Meter Chg	Qntty Rate	Total	Avg Unit	Meter Chg	Tier 1	Tier 2	Proposed	Proposed Avg	Dollar ($)	Percent (%)
Month	Charge	$2.1199	Bill	Cost	Charge	$2.3040	$2.6496	Total Bill	Unit Cost	Difference	Difference
0	16.85	0.00	16.85	0.00	13.48	0.00		13.48	0.00	-3.37	-20.00%
1	16.85	2.12	18.97	2.12	13.48	2.30		15.78	2.30	-3.19	-16.79%
2	16.85	4.24	21.09	2.12	13.48	4.61		18.09	2.30	-3.00	-14.23%
3	16.85	6.36	23.21	2.12	13.48	6.91		20.39	2.30	-2.82	-12.14%
4	16.85	8.48	25.33	2.12	13.48	9.22		22.70	2.30	-2.63	-10.40%
5	16.85	10.60	27.45	2.12	13.48	11.52		25.00	2.30	-2.45	-8.92%
7	16.85	14.84	31.69	2.12	13.48	16.13		29.61	2.30	-2.08	-6.57%
9	16.85	19.08	35.93	2.12	13.48	20.74		34.22	2.30	-1.71	-4.77%
12	**16.85**	**25.44**	**42.29**	**2.12**	**13.48**	**27.65**	**-**	**41.13**	2.30	**-1.16**	**-2.74%**
17	16.85	36.04	52.89	2.12	13.48	27.65	**13.25**	54.38	2.41	1.49	2.81%
20	16.85	42.40	59.25	2.12	13.48	27.65	**21.20**	62.32	2.44	3.08	5.19%
25	16.85	53.00	69.85	2.12	13.48	27.65	**34.44**	75.57	2.48	5.73	8.20%
30	16.85	63.60	80.45	2.12	13.48	27.65	**47.69**	88.82	2.51	8.37	10.41%
32	16.85	67.84	84.69	2.12	13.48	27.65	**52.99**	94.12	2.52	9.43	11.14%
34	16.85	72.08	88.93	2.12	13.48	27.65	**58.29**	99.42	2.53	10.49	11.80%
38	16.85	80.56	97.41	2.12	13.48	27.65	**68.89**	110.02	2.54	12.61	12.95%
40	16.85	84.80	101.65	2.12	13.48	27.65	**74.19**	115.32	2.55	13.67	13.45%
45	16.85	95.39	112.24	2.12	13.48	27.65	**87.44**	128.56	2.56	16.32	14.54%
50	16.85	105.99	122.84	2.12	13.48	27.65	**100.68**	141.81	2.57	18.97	15.44%
60	16.85	127.19	144.04	2.12	13.48	27.65	**127.18**	168.31	2.58	24.27	16.85%
75	16.85	158.99	175.84	2.12	13.48	27.65	**166.92**	208.05	2.59	32.21	18.32%
100	16.85	211.99	228.84	2.12	13.48	27.65	**233.16**	274.29	2.61	45.45	19.86%
125	16.85	264.99	281.84	2.12	13.48	27.65	**299.40**	340.53	2.62	58.70	20.83%
150	16.85	317.98	334.83	2.12	13.48	27.65	**365.64**	406.77	2.62	71.94	21.49%
175	16.85	370.98	387.83	2.12	13.48	27.65	**431.88**	473.01	2.63	85.18	21.96%
200	16.85	423.98	440.83	2.12	13.48	27.65	**498.12**	539.25	2.63	98.43	22.33%
400	16.85	847.95	864.80	2.12	13.48	27.65	**1,028.04**	1069.17	2.64	204.37	23.63%
800	16.85	1695.90	1712.75	2.12	13.48	27.65	**2,087.88**	2129.01	2.64	416.25	24.30%
1000	16.85	2119.88	2136.73	2.12	13.48	27.65	**2,617.80**	2658.93	2.65	522.20	24.44%
1500	16.85	3179.82	3196.67	2.12	13.48	27.65	**3,942.60**	3983.72	2.65	787.05	24.62%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a two tier increasing block quantity rate
4 - Average unit cost is calculated as usage times proposed quantity rates (which are tiered rates) divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills

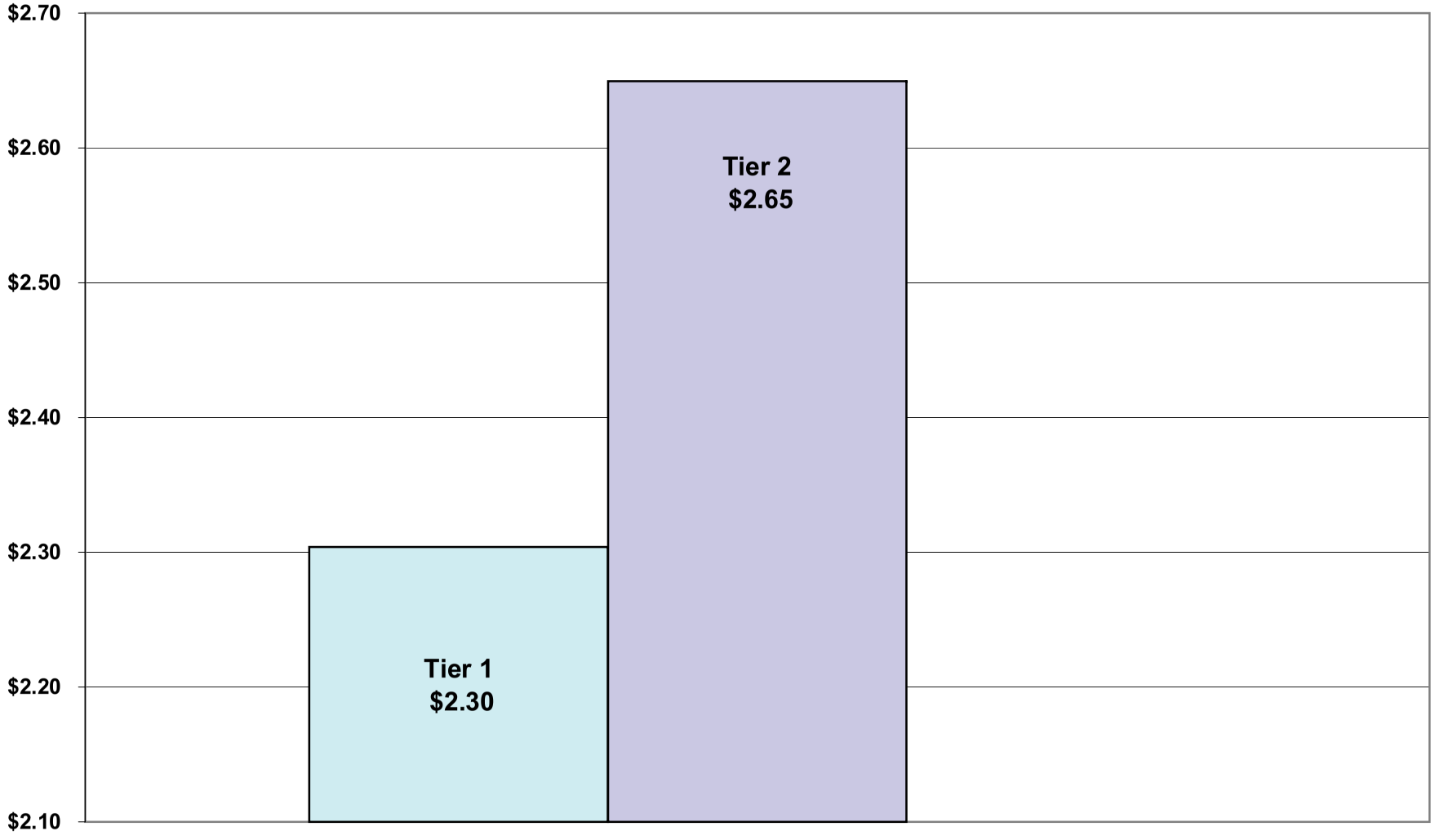
Region II
Total Bills for Residential Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)



Region II
Average Unit Cost
Comparing Current and Proposed Rates
(shows quantity rates times usage divided by usage)



Region II
Proposed Tiered Rates/Marginal Cost



Attachment 2

Proposed Settlement Rate Design and Revenue Check Model
District: Bay Point

Proposal: Reduce Percent of Fixed Cost Recovery through Meter/Service Charge
Keep Current Single Quantity Rate Design

Current Rate Design		
5/8" x 3/4" Equivalent Units (Eus)		6,122
Mtr chg revenue	$	1,741,097
Mtr chg $/mo per EU	$	23.70
Adopted Sales ccf		1,122,871
Current V target rev	$	3,381,068
$/Ccf /Single Quantity Rate		3.011 Ccf
BMP 11 Threshold Check		
Service Charge % revenue		33.99%
Quantity Charge % revenue		66.01%
Total		100.00%

Current Rate Summary

Meter Size		**Service Charge**
5/8" x 3/4"	$	23.70
3/4"	$	35.60
1"	$	59.40
1.5"	$	118.95
2"	$	190.15
3"	$	356.95
4"	$	593.90
6"	$	1,188.90
8"	$	1,901.85
10"	$	2,733.80
Quantity Charge (SQR) $/Ccf	**$3.011**	

Proposed Changes to the Rate Design
Reduce Meter Charge Increase Single Quantity Rate

Proposed		
Reduce meter charge by		**12%**
Results in adding these $ to Q rev tar	$	208,932

Equivalent Units		6,122
Mtr chg rev	$	1,532,165
Mtr chg $/mo per EU	$	20.86
Adopted Sales ccf		1,122,871 Ccf
New V target rev	$	3,589,999
New SQR	$	3.197
BMP 11 Threshold Check		
Service Charge % revenue		29.91%
Quantity Charge % revenue		70.09%
Total		100.00%

Proposed Rate Summary

Meter Size		**Service Charge**	**Ratio**
5/8" x 3/4"	$	20.86	1.00
3/4"	$	31.28	1.50
1"	$	52.14	2.50
1.5"	$	104.28	5.00
2"	$	166.85	8.00
3"	$	312.84	15.00
4"	$	521.40	25.00
6"	$	1,042.80	50.00
8"	$	1,668.48	80.00
10"	$	2,398.44	115.00
Quantity Charge (SQR) $/ccf:	**$3.197**		

Customer Bill Impact Analysis **Bay Point**

Typical bill comparisons current to proposed for 5/8" x 3/4" Customers

Based on Meter/Service Charge Plus Quantity Charges Times Consumption

		Meter Chg		Qty Charge
Current	$	23.70	$	3.0110
Proposed	$	20.86	$	3.1972

small usage (ccf/mo)		5	***annual avg (ccf/mo)***		11
Current bill	$	38.76	Current bill	$	56.82
Proposed Bill	$	36.84	Proposed Bill	$	56.02
Bill Difference	$	(1.91)	Bill Difference	$	(0.80)
% Change in bill		-4.94%	% Change in bill		-1.40%

winter usage (ccf/mo)		9	***summer usage (ccf/mo)***		15
Current bill	$	50.80	Current bill	$	68.87
Proposed Bill	$	49.63	Proposed Bill	$	68.81
Bill Difference	$	(1.17)	Bill Difference	$	(0.05)
% Change in bill		-2.30%	% Change in bill		-0.07%

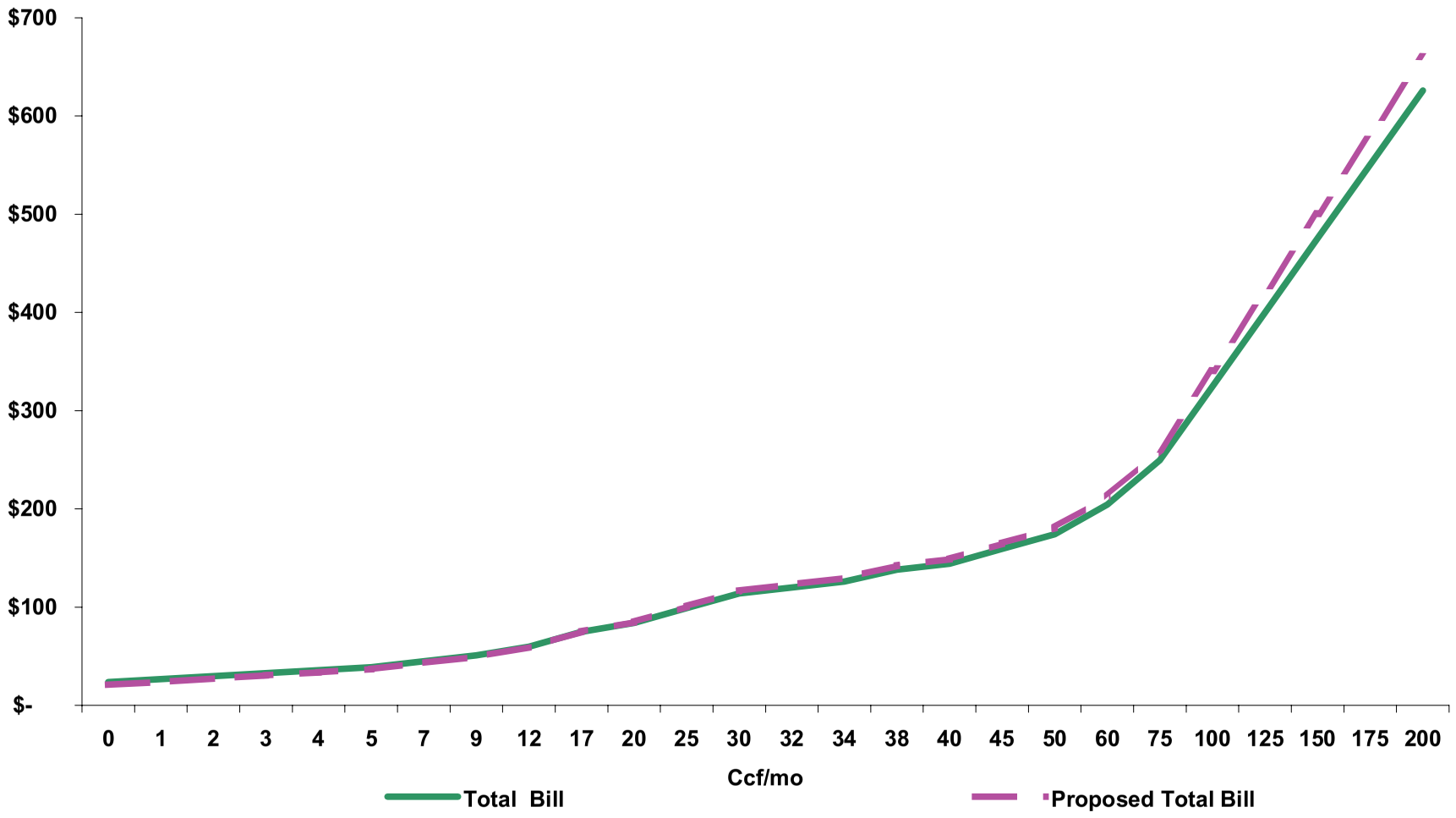
large usage (ccf/mo)		100	***largest avg (ccf/mo)***		1000
Current bill	$	324.80	Current bill	$	3,034.70
Proposed Bill	$	340.57	Proposed Bill	$	3,218.02
Bill Difference	$	15.77	Bill Difference	$	183.32
% Change in bill		4.86%	% Change in bill		6.04%

Bill Impact Analaysis at Various Usage Levels
Bay Point
Change in Bills for Customers with 5/8" x 3/4" Connections

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates				Change in Bills	
Ccf Per Month	Meter Chg Charge	Qntty Rate $3.0110	Total Bill	Avg Unit Cost	Meter Chg Charge	Single Quantity Rate $3.1972	Proposed Total Bill	Proposed Avg Unit Cost	Dollar ($) Difference	Percent (%) Difference
0	23.70	0.00	23.70	0.00	20.86	0.00	20.86	0.00	-2.84	-12.00%
1	23.70	3.01	26.71	3.01	20.86	3.20	24.05	3.20	-2.66	-9.95%
2	23.70	6.02	29.72	3.01	20.86	6.39	27.25	3.20	-2.47	-8.32%
3	23.70	9.03	32.73	3.01	20.86	9.59	30.45	3.20	-2.29	-6.98%
4	23.70	12.04	35.74	3.01	20.86	12.79	33.64	3.20	-2.10	-5.87%
5	23.70	15.06	38.76	3.01	20.86	15.99	36.84	3.20	-1.91	-4.94%
7	23.70	21.08	44.78	3.01	20.86	22.38	43.24	3.20	-1.54	-3.44%
9	23.70	27.10	50.80	3.01	20.86	28.77	49.63	3.20	-1.17	-2.30%
12	23.70	36.13	59.83	3.01	20.86	38.37	59.22	3.20	-0.61	-1.02%
17	23.70	51.19	74.89	3.01	20.86	54.35	75.21	3.20	0.32	0.43%
20	23.70	60.22	83.92	3.01	20.86	63.94	84.80	3.20	0.88	1.05%
25	23.70	75.28	98.98	3.01	20.86	79.93	100.79	3.20	1.81	1.83%
30	23.70	90.33	114.03	3.01	20.86	95.91	116.77	3.20	2.74	2.40%
32	23.70	96.35	120.05	3.01	20.86	102.31	123.17	3.20	3.11	2.59%
34	23.70	102.37	126.07	3.01	20.86	108.70	129.56	3.20	3.49	2.76%
38	23.70	114.42	138.12	3.01	20.86	121.49	142.35	3.20	4.23	3.06%
40	23.70	120.44	144.14	3.01	20.86	127.89	148.74	3.20	4.60	3.19%
45	23.70	135.50	159.20	3.01	20.86	143.87	164.73	3.20	5.53	3.48%
50	23.70	150.55	174.25	3.01	20.86	159.86	180.71	3.20	6.46	3.71%
60	23.70	180.66	204.36	3.01	20.86	191.83	212.69	3.20	8.33	4.07%
75	23.70	225.83	249.53	3.01	20.86	239.79	260.64	3.20	11.12	4.46%
100	23.70	301.10	324.80	3.01	20.86	319.72	340.57	3.20	15.77	4.86%
125	23.70	376.38	400.08	3.01	20.86	399.65	420.50	3.20	20.43	5.11%
150	23.70	451.65	475.35	3.01	20.86	479.57	500.43	3.20	25.08	5.28%
175	23.70	526.93	550.63	3.01	20.86	559.50	580.36	3.20	29.73	5.40%
200	23.70	602.20	625.90	3.01	20.86	639.43	660.29	3.20	34.39	5.49%
400	23.70	1204.40	1228.10	3.01	20.86	1278.86	1299.72	3.20	71.62	5.83%
800	23.70	2408.80	2432.50	3.01	20.86	2557.73	2578.58	3.20	146.08	6.01%
1000	23.70	3011.00	3034.70	3.01	20.86	3197.16	3218.02	3.20	183.32	6.04%
1500	23.70	4516.50	4540.20	3.01	20.86	4795.74	4816.60	3.20	276.40	6.09%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
4 - Average unit cost is calculated as usage times proposed single quantity rates divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills

Bay Point
Total Bills for Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)



Proposed Settlement Rate Design and Revenue Check Model
District: Los Osos

Proposal: Reduce Percent of Fixed Cost Recovery through Meter/Service Charge
Keep Current Single Quantity Rate Design

Standard/Current Rate Design		
5/8" x 3/4" Equivalent Units (Eus)		4,127
Mtr chg revenue	$	945,661
Mtr chg $/mo per EU	$	19.10
Adopted Sales ccf		579,481
Current V target rev	$	1,063,856
$/Ccf /Single Quantity Rate	$	1.836
BMP 11 Threshold Test		
Service Charge % revenue		47.06%
Quantity Charge % revenue		52.94%
Total		100.00%

Current Rate Summary

Meter Size		**Service Charge**
5/8" x 3/4"	$	19.10
3/4"	$	28.60
1"	$	47.70
1.5"	$	95.40
2"	$	153.00
3"	$	286.00
4"	$	477.00
6"	$	954.00
8"	$	1,526.00
10"	$	2,194.00
Quantity Charge (SQR) $/Ccf	**$1.8360**	

Proposed Changes to the Rate Design
Reduce Meter Charge Increase Single Quantity Rate

Proposed		
Reduce meter charge by		**37%**
Results in adding these $ to Q rev tar	$	349,894

Equivalent Units		4,127
Mtr chg rev	$	595,766
Mtr chg $/mo per EU	$	12.03
Adopted Sales ccf		579,481 Ccf
New V target rev	$	1,413,750
New SQR	$	2.440
BMP 11 Threshold Check		
Service Charge % revenue		29.65%
Quantity Charge % revenue		70.35%
Total		100.00%

Proposed Rate Summary

Meter Size		**Service Charge**	**Ratio**
5/8" x 3/4"	$	12.03	1.00
3/4"	$	18.04	1.50
1"	$	30.07	2.50
1.5"	$	60.15	5.00
2"	$	96.24	8.00
3"	$	180.45	15.00
4"	$	300.75	25.00
6"	$	601.49	50.00
8"	$	962.39	80.00
10"	$	1,383.43	115.00
Quantity Charge (SQR) $/ccf:	**$2.440**		

Customer Bill Impact Analysis **Los Osos**

Typical bill comparisons current to proposed for 5/8" x 3/4" Customers

Based on Meter/Service Charge Plus Quantity Charges Times Consumption

		Meter Chg		Q Charge
Current	$	19.10	$	1.8360
Proposed	$	12.03	$	2.440

small usage (ccf/mo)		5	***annual avg (ccf/mo)***		11
Current bill	$	28.28	Current bill	$	39.29
Proposed Bill	$	24.23	Proposed Bill	$	38.87
Bill Difference	$	(4.05)	Bill Difference	$	(0.42)
% Change in bill		-14.31%	% Change in bill		-1.08%

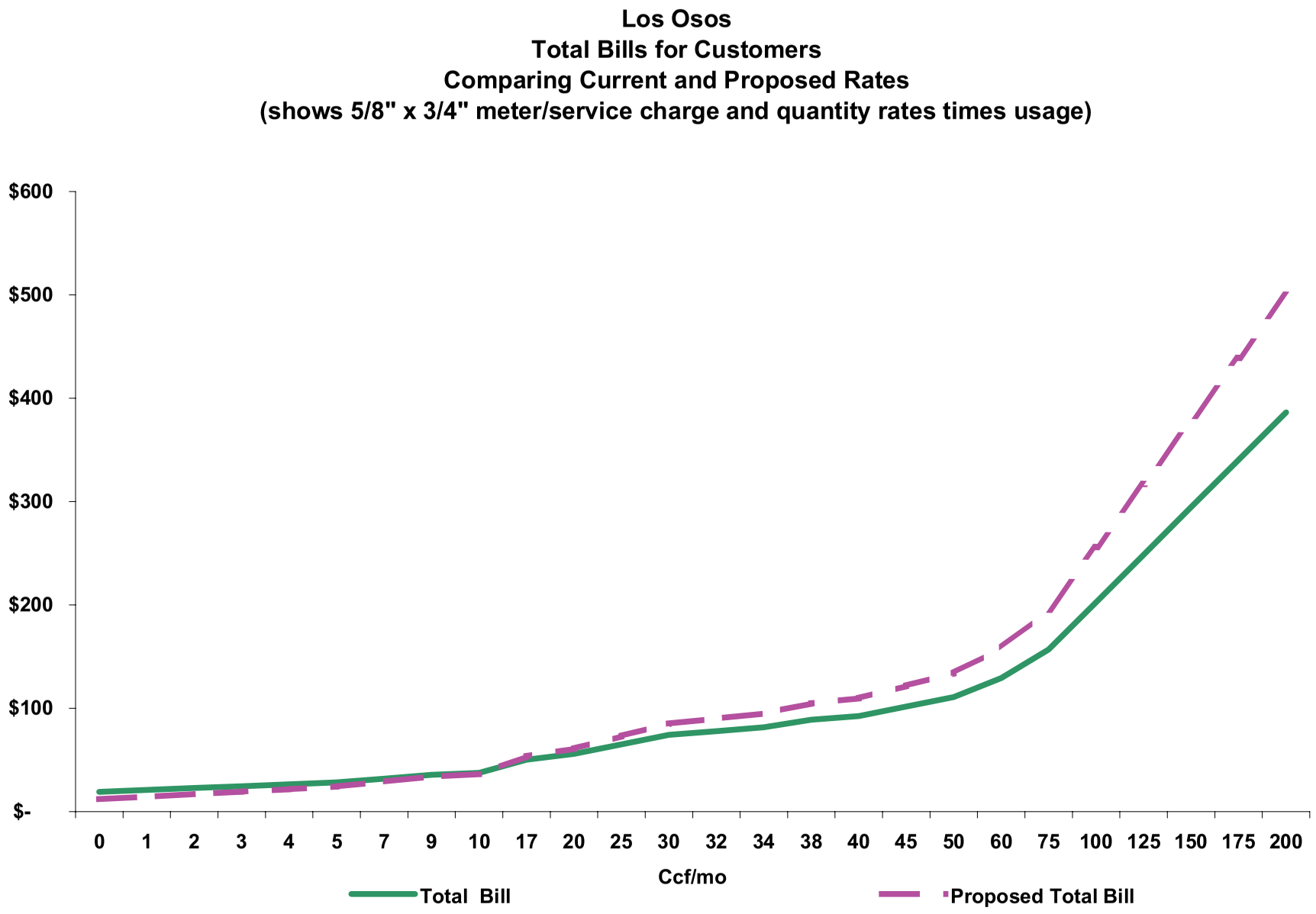
winter usage (ccf/mo)		10	***summer usage (ccf/mo)***		12
Current bill	$	37.46	Current bill	$	41.13
Proposed Bill	$	36.43	Proposed Bill	$	41.31
Bill Difference	$	(1.03)	Bill Difference	$	0.18
% Change in bill		-2.75%	% Change in bill		0.44%

large usage (ccf/mo)		100	***largest avg (ccf/mo)***		1000
Current bill	$	202.70	Current bill	$	1,855.10
Proposed Bill	$	256.00	Proposed Bill	$	2,451.71
Bill Difference	$	53.30	Bill Difference	$	596.62
% Change in bill		26.30%	% Change in bill		32.16%

Bill Impact Analaysis at Various Usage Levels
Los Osos
Change in Bills for Residential Customers with 5/8" x 3/4" Connections

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates				Change in Bills	
Ccf Per Month	Meter Chg Charge	Qntty Rate $1.8360	Total Bill	Avg Unit Cost	Meter Chg Charge	Single Quantity Rate $2.4397	Proposed Total Bill	Proposed Avg Unit Cost	Dollar ($) Difference	Percent (%) Difference
0	19.10	0.00	19.10	0.00	12.03	0.00	12.03	0.00	-7.07	-37.00%
1	19.10	1.84	20.93	1.84	12.03	2.44	14.47	2.44	-6.46	-30.87%
2	19.10	3.67	22.77	1.84	12.03	4.88	16.91	2.44	-5.86	-25.73%
3	19.10	5.51	24.60	1.84	12.03	7.32	19.35	2.44	-5.25	-21.36%
4	19.10	7.34	26.44	1.84	12.03	9.76	21.79	2.44	-4.65	-17.59%
5	19.10	9.18	28.28	1.84	12.03	12.20	24.23	2.44	-4.05	-14.31%
7	19.10	12.85	31.95	1.84	12.03	17.08	29.11	2.44	-2.84	-8.89%
9	19.10	16.52	35.62	1.84	12.03	21.96	33.99	2.44	-1.63	-4.58%
10	19.10	18.36	37.46	1.84	12.03	24.40	36.43	2.44	-1.03	-2.75%
17	19.10	31.21	50.31	1.84	12.03	41.47	53.50	2.44	3.20	6.36%
20	19.10	36.72	55.82	1.84	12.03	48.79	60.82	2.44	5.01	8.97%
25	19.10	45.90	65.00	1.84	12.03	60.99	73.02	2.44	8.03	12.35%
30	19.10	55.08	74.18	1.84	12.03	73.19	85.22	2.44	11.05	14.89%
32	19.10	58.75	77.85	1.84	12.03	78.07	90.10	2.44	12.25	15.74%
34	19.10	62.42	81.52	1.84	12.03	82.95	94.98	2.44	13.46	16.51%
38	19.10	69.77	88.86	1.84	12.03	92.71	104.74	2.44	15.87	17.86%
40	19.10	73.44	92.54	1.84	12.03	97.59	109.62	2.44	17.08	18.46%
45	19.10	82.62	101.72	1.84	12.03	109.79	121.82	2.44	20.10	19.76%
50	19.10	91.80	110.90	1.84	12.03	121.98	134.01	2.44	23.12	20.85%
60	19.10	110.16	129.26	1.84	12.03	146.38	158.41	2.44	29.16	22.56%
75	19.10	137.70	156.80	1.84	12.03	182.98	195.01	2.44	38.21	24.37%
100	19.10	183.60	202.70	1.84	12.03	243.97	256.00	2.44	53.30	26.30%
125	19.10	229.50	248.60	1.84	12.03	304.96	316.99	2.44	68.40	27.51%
150	19.10	275.40	294.50	1.84	12.03	365.95	377.98	2.44	83.49	28.35%
175	19.10	321.30	340.40	1.84	12.03	426.94	438.97	2.44	98.58	28.96%
200	19.10	367.20	386.30	1.84	12.03	487.94	499.97	2.44	113.67	29.43%
400	19.10	734.40	753.50	1.84	12.03	975.87	987.90	2.44	234.41	31.11%
800	19.10	1468.80	1487.90	1.84	12.03	1951.75	1963.78	2.44	475.88	31.98%
1000	19.10	1836.00	1855.10	1.84	12.03	2439.68	2451.71	2.44	596.62	32.16%
1500	19.10	2754.00	2773.10	1.84	12.03	3659.52	3671.55	2.44	898.46	32.40%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
4 - Average unit cost is calculated as usage times proposed single quantity rates divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills


Los Osos
Total Bills for Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)
$600
$500
$400
$300
$200
$100
$-
0 1 2 3 4 5 7 9 10 17 20 25 30 32 34 38 40 45 50 60 75 100 125 150 175 200
Ccf/mo
Total Bill
Proposed Total Bill

Proposed Settlement Rate Design and Revenue Check Model
District: Simi Valley

Proposal: Reduce Percent of Fixed Cost Recovery through Meter/Service Charge
Keep Current Single Quantity Rate Design

Current Rate Design		
5/8" x 3/4" Equivalent Units (Eus)		16,703
Mtr chg revenue	$	2,204,796
Mtr chg $/mo per EU	$	11.00
Adopted Sales ccf		3,311,621
Current V target rev	$	6,216,934
$/Ccf /Single Quantity Rate		1.877 Ccf
BMP 11 Threshold Check		
Service Charge % revenue		26.18%
Quantity Charge % revenue		73.82%
Total		100.00%

Current Rate Summary

Meter Size		**Service Charge**
5/8" x 3/4"	$	11.00
3/4"	$	16.50
1"	$	27.50
1.5"	$	55.10
2"	$	88.15
3"	$	164.95
4"	$	275.95
6"	$	550.95
8"	$	891.95
10"	$	1,267.95
Quantity Charge (SQR) $/Ccf	**$1.877**	

Proposed Changes to the Rate Design
Reduce Meter Charge Increase Single Quantity Rate

Proposed		
Reduce meter charge by		**10%**
Results in adding these $ to Q rev tar	$	220,480

Equivalent Units		16,703
Mtr chg rev	$	1,984,316
Mtr chg $/mo per EU	$	9.90
Adopted Sales ccf		3,311,621 Ccf
New V target rev	$	6,437,414
New SQR	$	1.944
BMP 11 Threshold Check		
Service Charge % revenue		23.56%
Quantity Charge % revenue		76.44%
Total		100.00%

Proposed Rate Summary

Meter Size		**Service Charge**	**Ratio**
5/8" x 3/4"	$	9.90	1.00
3/4"	$	14.85	1.50
1"	$	24.75	2.50
1.5"	$	49.50	5.00
2"	$	79.20	8.00
3"	$	148.50	15.00
4"	$	247.50	25.00
6"	$	495.00	50.00
8"	$	792.00	80.00
10"	$	1,138.50	115.00
Quantity Charge (SQR) $/ccf:	**$1.944**		

Customer Bill Impact Analysis Simi Valley
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter/Service Charge Plus Quantity Charges Times Consumption

		Meter Chg		Q Charge
Current	$	11.00	$	1.8773
Proposed	$	9.90	$	1.9439

small usage (ccf/mo)		5	***annual avg (ccf/mo)***		17
Current bill	$	20.39	Current bill	$	42.91
Proposed Bill	$	19.62	Proposed Bill	$	42.95
Bill Difference	$	(0.77)	Bill Difference	$	0.03
% Change in bill		-3.76%	% Change in bill		0.07%

winter usage (ccf/mo)		16	***summer usage (ccf/mo)***		21
Current bill	$	41.04	Current bill	$	50.42
Proposed Bill	$	41.00	Proposed Bill	$	50.72
Bill Difference	$	(0.03)	Bill Difference	$	0.30
% Change in bill		-0.08%	% Change in bill		0.59%

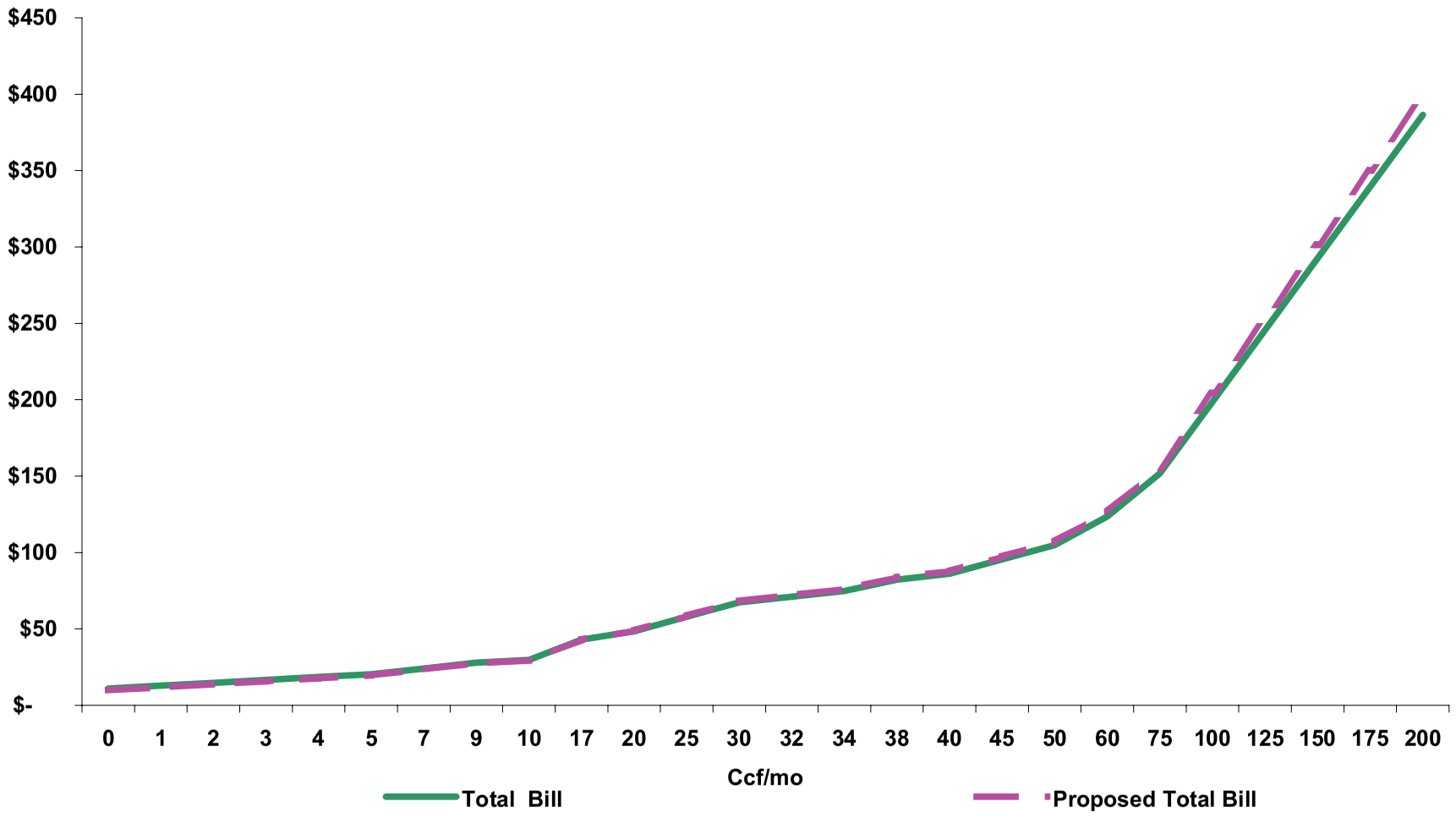
large usage (ccf/mo)		100	***largest avg (ccf/mo)***		1000
Current bill	$	198.73	Current bill	$	1,888.31
Proposed Bill	$	204.29	Proposed Bill	$	1,953.79
Bill Difference	$	5.56	Bill Difference	$	65.48
% Change in bill		2.80%	% Change in bill		3.47%

Bill Impact Analaysis at Various Usage Levels
Simi Valley
Change in Bills for Customers with 5/8" x 3/4" Connections

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates				Change in Bills	
Ccf Per Month	Meter Chg Charge	Qntty Rate $1.8773	Total Bill	Avg Unit Cost	Meter Chg Charge	Single Quantity Rate $1.9439	Proposed Total Bill	Proposed Avg Unit Cost	Dollar ($) Difference	Percent (%) Difference
0	11.00	0.00	11.00	0.00	9.90	0.00	9.90	0.00	-1.10	-10.00%
1	11.00	1.88	12.88	1.88	9.90	1.94	11.84	1.94	-1.03	-8.03%
2	11.00	3.75	14.75	1.88	9.90	3.89	13.79	1.94	-0.97	-6.55%
3	11.00	5.63	16.63	1.88	9.90	5.83	15.73	1.94	-0.90	-5.41%
4	11.00	7.51	18.51	1.88	9.90	7.78	17.68	1.94	-0.83	-4.50%
5	11.00	9.39	20.39	1.88	9.90	9.72	19.62	1.94	-0.77	-3.76%
7	11.00	13.14	24.14	1.88	9.90	13.61	23.51	1.94	-0.63	-2.63%
9	11.00	16.90	27.90	1.88	9.90	17.49	27.39	1.94	-0.50	-1.80%
10	11.00	18.77	29.77	1.88	9.90	19.44	29.34	1.94	-0.43	-1.46%
17	11.00	31.91	42.91	1.88	9.90	33.05	42.95	1.94	0.03	0.07%
20	11.00	37.55	48.55	1.88	9.90	38.88	48.78	1.94	0.23	0.48%
25	11.00	46.93	57.93	1.88	9.90	48.60	58.50	1.94	0.56	0.97%
30	11.00	56.32	67.32	1.88	9.90	58.32	68.22	1.94	0.90	1.33%
32	11.00	60.07	71.07	1.88	9.90	62.20	72.10	1.94	1.03	1.45%
34	11.00	63.83	74.83	1.88	9.90	66.09	75.99	1.94	1.16	1.56%
38	11.00	71.34	82.34	1.88	9.90	73.87	83.77	1.94	1.43	1.74%
40	11.00	75.09	86.09	1.88	9.90	77.76	87.66	1.94	1.56	1.82%
45	11.00	84.48	95.48	1.88	9.90	87.47	97.37	1.94	1.90	1.99%
50	11.00	93.87	104.87	1.88	9.90	97.19	107.09	1.94	2.23	2.13%
60	11.00	112.64	123.64	1.88	9.90	116.63	126.53	1.94	2.89	2.34%
75	11.00	140.80	151.80	1.88	9.90	145.79	155.69	1.94	3.89	2.56%
100	11.00	187.73	198.73	1.88	9.90	194.39	204.29	1.94	5.56	2.80%
125	11.00	234.66	245.66	1.88	9.90	242.99	252.89	1.94	7.22	2.94%
150	11.00	281.60	292.60	1.88	9.90	291.58	301.48	1.94	8.89	3.04%
175	11.00	328.53	339.53	1.88	9.90	340.18	350.08	1.94	10.55	3.11%
200	11.00	375.46	386.46	1.88	9.90	388.78	398.68	1.94	12.22	3.16%
400	11.00	750.92	761.92	1.88	9.90	777.55	787.45	1.94	25.53	3.35%
800	11.00	1501.85	1512.85	1.88	9.90	1555.11	1565.01	1.94	52.16	3.45%
1000	11.00	1877.31	1888.31	1.88	9.90	1943.89	1953.79	1.94	65.48	3.47%
1500	11.00	2815.96	2826.96	1.88	9.90	2915.83	2925.73	1.94	98.77	3.49%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
4 - Average unit cost is calculated as usage times proposed single quantity rates divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills

Simi Valley
Total Bills for Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)



Proposed Settlement Rate Design and Revenue Check Model
District: Santa Maria

Proposal: Reduce Percent of Fixed Cost Recovery through Meter/Service Charge
Keep Current Single Quantity Rate Design

Standard/Current Rate Design		
5/8" x 3/4" Equivalent Units (Eus)		15,838
Mtr chg revenue	$	3,192,941
Mtr chg $/mo per EU	$	16.80
Adopted Sales ccf		4,010,892
Current V target rev	$	4,133,806
$/Ccf /Single Quantity Rate		1.031 Ccf
BMP 11 Threshold Check		
Service Charge % revenue		43.58%
Quantity Charge % revenue		56.42%
Total		100.00%

Current Rate Summary

Meter Size		**Service Charge**
5/8" x 3/4"	$	16.80
3/4"	$	25.15
1"	$	41.95
1.5"	$	839.00
2"	$	134.00
3"	$	252.00
4"	$	419.00
6"	$	839.00
8"	$	1,342.00
10"	$	1,929.00
Quantity Charge (SQR) $/Ccf	**$1.031**	

Proposed Changes to the Rate Design
Reduce Meter Charge Increase Single Quantity Rate

Proposed		**Residential**
Reduce meter charge by		**31%**
Results in adding these $ to Q rev tar	$	989,812

Equivalent Units		15,838
Mtr chg rev	$	2,203,129
Mtr chg $/mo per EU	$	11.59
Adopted Sales ccf		4,010,892 Ccf
New V target rev	$	5,123,618
New SQR	$	1.277
BMP 11 Threshold Check		
Service Charge % revenue		30.07%
Quantity Charge % revenue		69.93%
Total		100.00%

Proposed Rate Summary

Meter Size		**Service Charge**	**Ratio**
5/8" x 3/4"	$	11.59	1.00
3/4"	$	17.39	1.50
1"	$	28.98	2.50
1.5"	$	57.96	5.00
2"	$	92.74	8.00
3"	$	173.88	15.00
4"	$	289.80	25.00
6"	$	579.60	50.00
8"	$	927.36	80.00
10"	$	1,333.08	115.00
Quantity Charge (SQR) $/ccf:	**$1.277**		

Customer Bill Impact Analysis Santa Maria
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter/Service Charge Plus Quantity Charges Times Consumption

	Meter Chg	Q Charge
Current	$ 16.80	$ 1.0306
Proposed	$ 11.59	$ 1.2774

small usage (ccf/mo)	5	***annual avg (ccf/mo)***	22
Current bill	$ 21.95	Current bill	$ 39.47
Proposed Bill	$ 17.98	Proposed Bill	$ 39.70
Bill Difference	$ (3.97)	Bill Difference	$ 0.22
% Change in bill	-18.10%	% Change in bill	0.56%

winter usage (ccf/mo)	18	***summer usage (ccf/mo)***	30
Current bill	$ 35.35	Current bill	$ 47.72
Proposed Bill	$ 34.59	Proposed Bill	$ 49.91
Bill Difference	$ (0.77)	Bill Difference	$ 2.20
% Change in bill	-2.17%	% Change in bill	4.60%

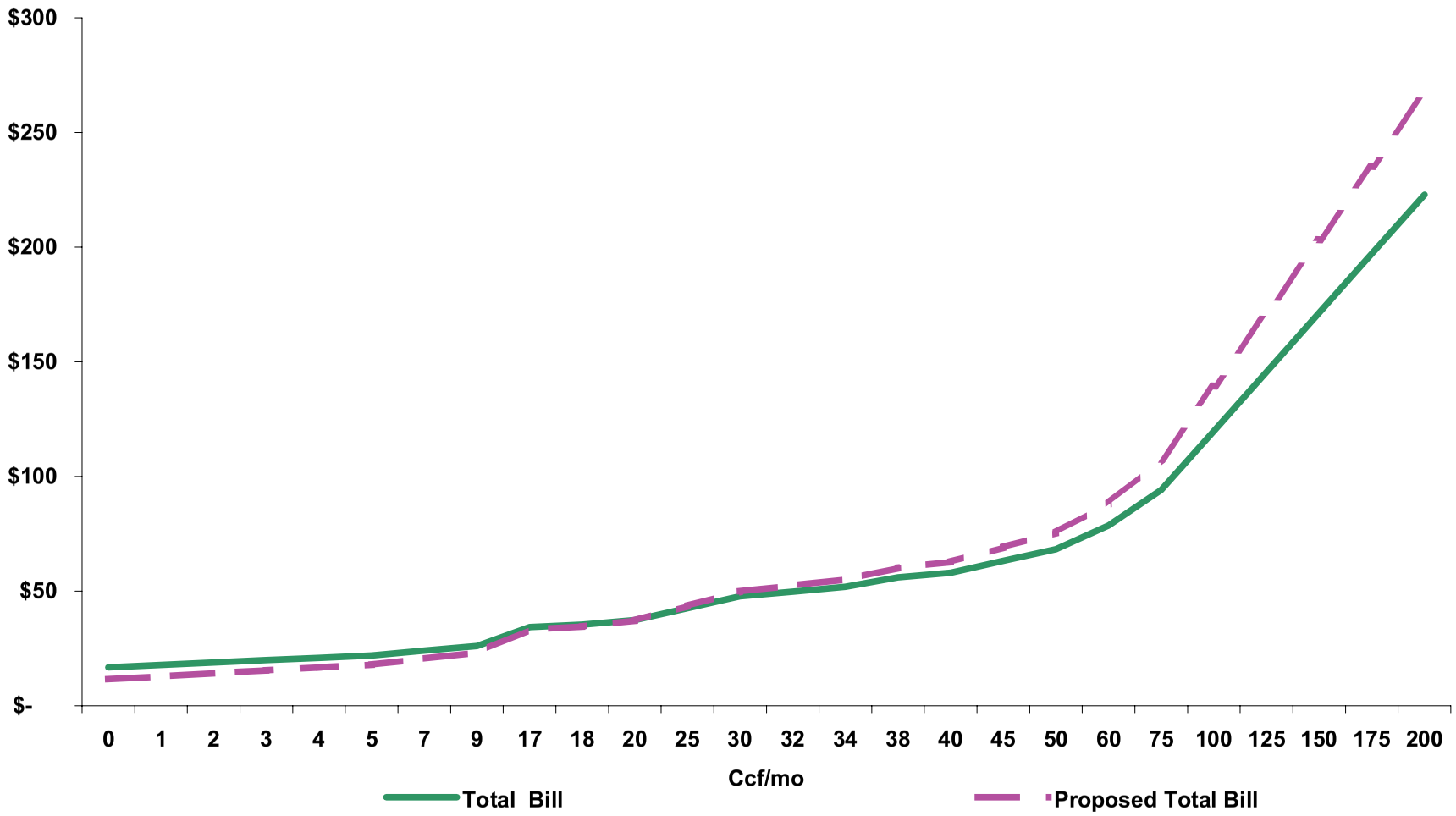
large usage (ccf/mo)	100	***largest avg (ccf/mo)***	1000
Current bill	$ 119.86	Current bill	$ 1,047.45
Proposed Bill	$ 139.33	Proposed Bill	$ 1,289.02
Bill Difference	$ 19.47	Bill Difference	$ 241.57
% Change in bill	16.24%	% Change in bill	23.06%

Bill Impact Analaysis at Various Usage Levels
Santa Maria
Change in Bills for Customers with 5/8" x 3/4" Connections

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates				Change in Bill	
Ccf Per Month	Meter Chg Charge	Qntty Rate $1.0306	Total Bill	Avg Unit Cost	Meter Chg Charge	Single Quantity Rate $1.2774	Proposed Total Bill	Proposed Avg Unit Cost	Dollar ($) Difference	Percent (%) Difference
0	16.80	0.00	16.80	0.00	11.59	0.00	11.59	0.00	-5.21	-31.00%
1	16.80	1.03	17.83	1.03	11.59	1.28	12.87	1.28	-4.96	-27.82%
2	16.80	2.06	18.86	1.03	11.59	2.55	14.15	1.28	-4.71	-25.00%
3	16.80	3.09	19.89	1.03	11.59	3.83	15.42	1.28	-4.47	-22.46%
4	16.80	4.12	20.92	1.03	11.59	5.11	16.70	1.28	-4.22	-20.17%
5	16.80	5.15	21.95	1.03	11.59	6.39	17.98	1.28	-3.97	-18.10%
7	16.80	7.21	24.01	1.03	11.59	8.94	20.53	1.28	-3.48	-14.49%
9	16.80	9.28	26.08	1.03	11.59	11.50	23.09	1.28	-2.99	-11.45%
17	16.80	17.52	34.32	1.03	11.59	21.72	33.31	1.28	-1.01	-2.95%
18	16.80	18.55	35.35	1.03	11.59	22.99	34.59	1.28	-0.77	-2.17%
20	16.80	20.61	37.41	1.03	11.59	25.55	37.14	1.28	-0.27	-0.73%
25	16.80	25.77	42.57	1.03	11.59	31.94	43.53	1.28	0.96	2.26%
30	16.80	30.92	47.72	1.03	11.59	38.32	49.91	1.28	2.20	4.60%
32	16.80	32.98	49.78	1.03	11.59	40.88	52.47	1.28	2.69	5.40%
34	16.80	35.04	51.84	1.03	11.59	43.43	55.02	1.28	3.18	6.14%
38	16.80	39.16	55.96	1.03	11.59	48.54	60.13	1.28	4.17	7.45%
40	16.80	41.23	58.03	1.03	11.59	51.10	62.69	1.28	4.66	8.04%
45	16.80	46.38	63.18	1.03	11.59	57.48	69.08	1.28	5.90	9.33%
50	16.80	51.53	68.33	1.03	11.59	63.87	75.46	1.28	7.13	10.44%
60	16.80	61.84	78.64	1.03	11.59	76.65	88.24	1.28	9.60	12.21%
75	16.80	77.30	94.10	1.03	11.59	95.81	107.40	1.28	13.30	14.13%
100	16.80	103.06	119.86	1.03	11.59	127.74	139.33	1.28	19.47	16.24%
125	16.80	128.83	145.63	1.03	11.59	159.68	171.27	1.28	25.64	17.61%
150	16.80	154.60	171.40	1.03	11.59	191.61	203.21	1.28	31.81	18.56%
175	16.80	180.36	197.16	1.03	11.59	223.55	235.14	1.28	37.98	19.26%
200	16.80	206.13	222.93	1.03	11.59	255.49	267.08	1.28	44.15	19.80%
400	16.80	412.26	429.06	1.03	11.59	510.97	522.56	1.28	93.50	21.79%
800	16.80	824.52	841.32	1.03	11.59	1021.94	1033.53	1.28	192.22	22.85%
1000	16.80	1030.65	1047.45	1.03	11.59	1277.43	1289.02	1.28	241.57	23.06%
1500	16.80	1545.97	1562.77	1.03	11.59	1916.14	1927.73	1.28	364.96	23.35%

1 - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
2 - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
3 - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
4 - Average unit cost is calculated as usage times proposed single quantity rates divided by usage
5 - Change in bills refers to dollar and percent difference from current total to proposed total bills

Santa Maria
Total Bills for Customers
Comparing Current and Proposed Rates
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)



Attachment 3

4,696 (Meter)

	Region 1							Region 2	Region 3
	Arden Cordova	Bay Point	Clearlake	Los Osos	Ojai	Santa Maria	Simi Valley		
Quantity Rate	$0.461	$3.011	$3.636	$1.836	Tier 1 - $1.884 Tier 2 - $2.032 Tier 3 - $2.381	$1.031	$1.877	$2.120	$1.760
Number of Customers Flat and Metered **June 07' data	11,011 (Flat) 4,696 (Meter)	No Flat 4,900 (Meter)	No Flat 2,159 (Meter)	No Flat 3269 (Meter)	No Flat 2,826 (Meter)	No Flat 13,141 (Meter)	No Flat 13,163 (Meter)	No Flat 98,934 (Meter)	940 (Flat) 96,148 (Meter)
Frequency of Bill	Monthly & Bimonthly	Monthly	Monthly	Bimonthly	Bimonthly	Monthly	Bimonthly	Monthly & Bimonthly	Monthly & Bimonthly
Service Charge									
5/8" x 3/4"	$7.70	$23.70	$36.65	$19.10	$19.55	$16.80	$11.00	$16.85	$14.75
3/4"	$11.55	$35.60	$51.95	$28.60	$29.30	$25.15	$16.50	$25.25	$22.10
1"	$19.20	$59.40	$82.55	$47.70	$48.85	$41.95	$27.50	$42.10	$36.85
1 1/2"	$38.40	$118.95	$158.95	$95.40	$97.75	$83.90	$55.10	$84.20	$73.65
2"	$61.50	$190.15	$250.95	$153.00	$156.00	$134.00	$88.15	$134.75	$118.00
3"	$115.00	$356.95	$464.95	$286.00	$293.00	$252.00	$164.95	$252.25	$221.00
4"	$192.00	$593.90	$770.95	$477.00	$489.00	$419.00	$275.95	$421.40	$368.00
6"	$384.00	$1,188.90	$1,535.95	$954.00	$977.00	$839.00	$550.95	$841.80	$737.00
8"	$615.00	$1,901.85	$2,452.95	$1,526.00	$1,564.00	$1,342.00	$891.95	$1,346.30	$1,178.00
10"	$884.00	$2,733.80	$3,523.95	$2,197.00	$2,248.25	$1,929.00	$1,267.95	$1,935.85	$1,694.00

Attachment 4

Attachment 4

Golden State Water Company
Customer Classification Survey Codes
(Other than NAICS)

1-4 Residences
1 Single Residence-One Dwelling Unit individually metered
2 Two, Three or Four Dwelling Units served by one meter
3 Five to Twenty Dwelling Units served by one meter
4 Twenty-one or more Dwelling Units served by one meter

11-17 Irrigation/Landscaping
11 Commercial Irrigation/Landscaping
12 Industrial Irrigation/Landscaping
13 Parks and City Irrigation/Landscaping
14 Schools and Other Institutions Irrigation/Landscaping
15 Homeowner's Associations and Other Residential Irrigation/Landscaping
16 Other Irrigation/Landscaping
17 Vacant Lot

21-22 Mobile Homes
21 Master Metered
22 Master Metered with Sub-meters

31-38 Fire Protection
31 Residential 1-Fire Protection
32 Residential 2-Fire Protection
33 Residential 3-Fire Protection
34 Residential 4-Fire Protection
35 Homeowner's Associations and Mobile Home Parks-Fire Protection
36 Commercial Fire Protection
37 Industrial Fire Protection
38 Institutional

41-46 Pools-Individually metered
41 Residential 1-Pool
42 Residential 2-Pool
43 Residential 3-Pool
44 Residential 4-Pool
45 Homeowner's Associations and Mobile Home Parks-Pool
46 Other-Pool

55 Water Hauler

9995 Hydrant/Construction Meter

9999 Idle Service-Inactive

Attachment 5

GOLDEN STATE WATER COMPANY
CONSUMPTION ANALYSIS

- Describe the data used in consumption analysis.

  - The data represents 2006 consumption and bill count (normalized).
  - The data is used to set tiers for residential customers.
  - All meter sizes within Customer Classification Survey Code "1" are considered.
  - GSWC used data generated from Customer Service Center.

- Describe classification of customer in systems that were used for consumption analysis.

  - Customers were categorized as residential or non-residential customers depending on their Customer Classification Survey Code.

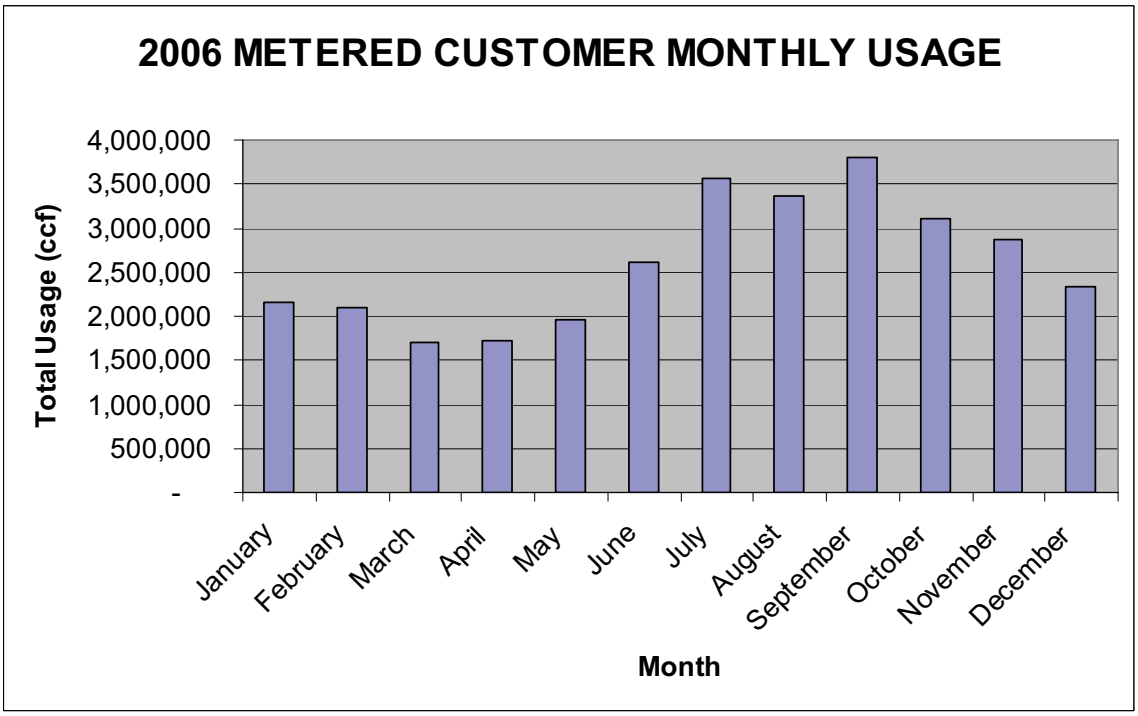
  - Residential customers are all customers with Customer Classification Survey Code "1".
    - 1: Single Family household
  - Non-residential customers are all customers with Customer Classification Survey Code greater than "1".
    - 2: Two, Three or Four Dwelling Units served by one meter
    - 3: Two, Five to Twenty Dwelling Units served by one meter
    - 4: Twenty-one or more Dwelling Units served by one meter
    - 11 – 17: Irrigation/Landscaping
    - 21 – 22: Mobil Homes
    - 31 – 38: Fire Protection
    - 41 – 46: Pools-Individually metered
    - 55: Water Hauler
    - 9995: Hydrant/Construction Meter
    - 9999: Idle Service-Inactive

- Describe any "clean up" process applied to the consumption data.

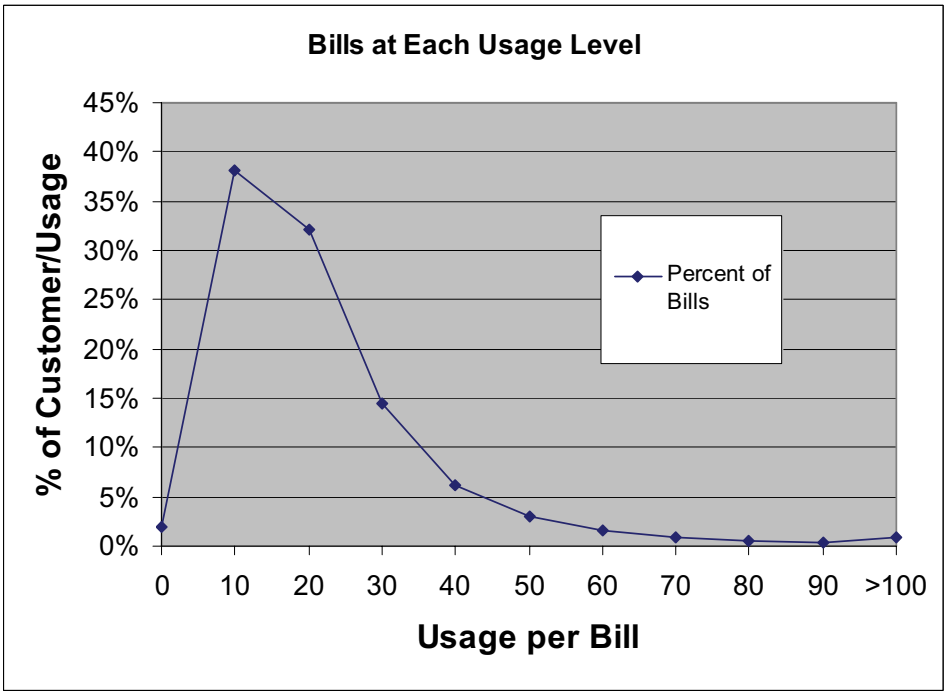
  - Bill counts and usage are given for each usage block of two ccfs.
  - Bills are "normalized" meaning that bimonthly bills are converted into monthly bills. Example: one bimonthly bill is considered as two monthly bills.
  - Consumption and usage data for residential customers was collected for each customer service area in every meter size. Some addition is done for the Region 2 and Region 3 ratemaking areas because they have multi-customer service areas.

Consumption Tables:

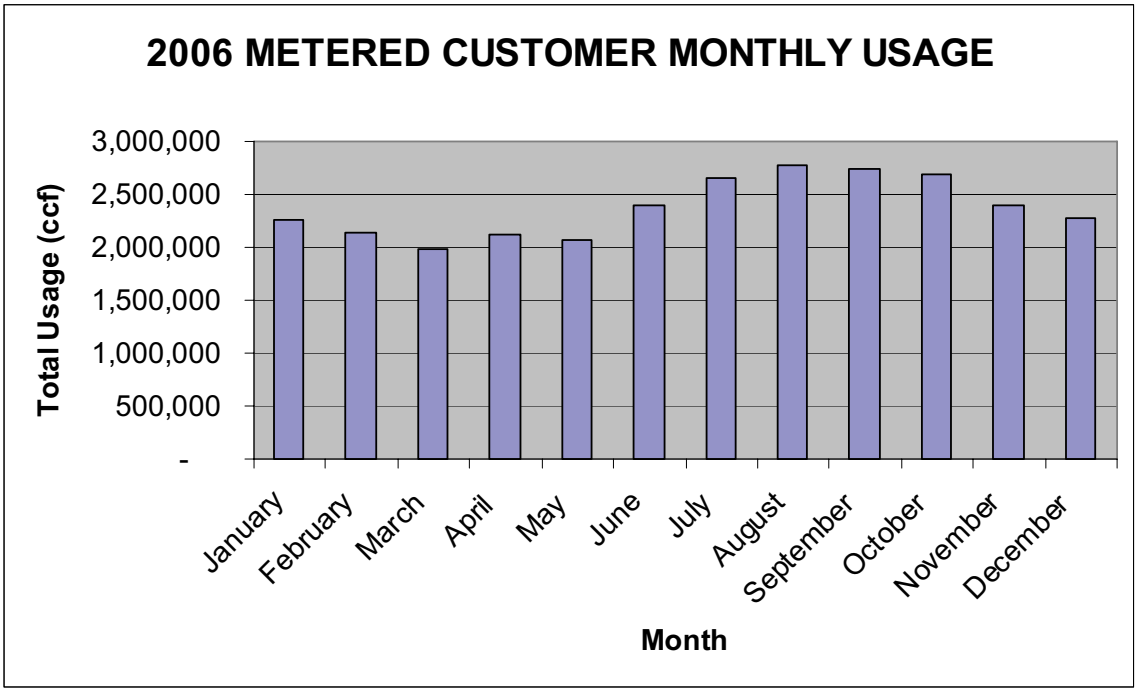
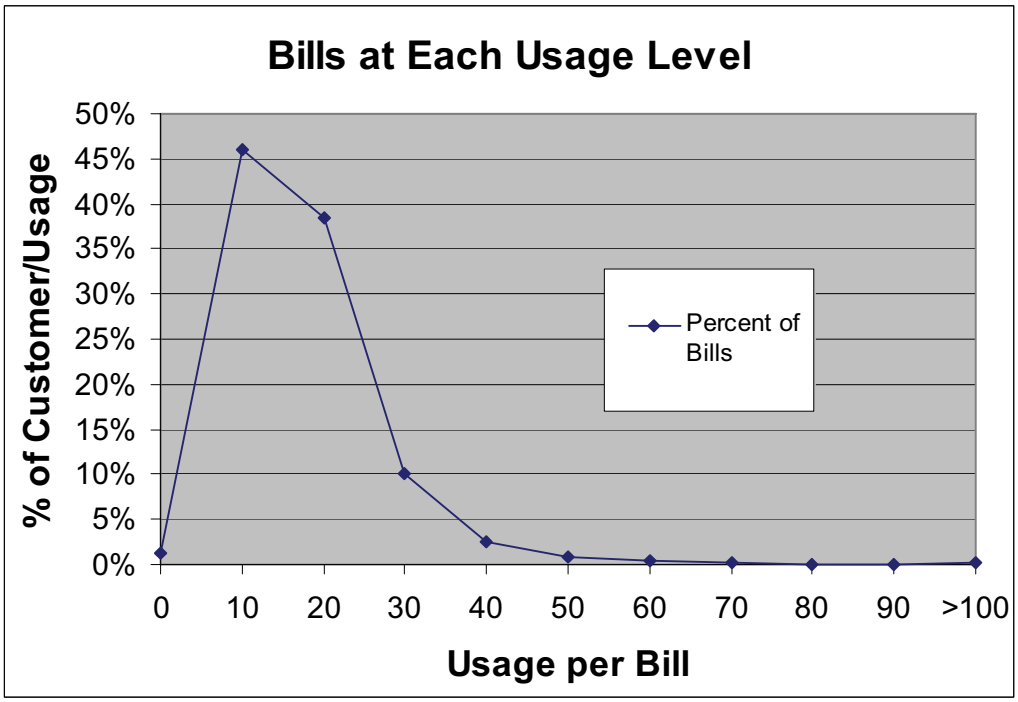
Region 3: 2006 Monthly Metered Customer Usage Data



Region 3: Percent of Bills at Each Usage Level



Region 2: 2006 Monthly Metered Customer Usage Data



Region 2: 2006 Percent of Bills at Each Usage Level