APPENDIX A

APPENDIX

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of Application of CALIFORNIA-AMERICAN WATER COMPANY (U 210 W) for an order authorizing it to increase its rates for water service in its Los Angeles District to increase revenues by $2,020,466 or 10.88% in the year 2007; $634,659 or 3.08% in the year 2008; and $666,422 or 3.14% in the year 2009	A.06-01-005 (Filed January 9, 2006)

AMENDED SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES, THE CITY OF DUARTE, AND CALIFORNIA-AMERICAN WATER COMPANY ON CONSERVATION RATE DESIGN ISSUES

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TABLE OF CONTENTS

I. GENERAL 1
II. BACKGROUND 2
III. PILOT PROGRAM 2
  A. Overview: 2
  B. Conservation Rates: 3
  C. Rate Design Parameters: 3
  D. Related Accounting Mechanisms: 3
IV. RESIDENTIAL CUSTOMERS 4
V. NON-RESIDENTIAL CUSTOMERS 5
VI. MECHANISMS FOR DECOUPLING SALES and REVENUE 5
VII. WATER REVENUE ADJUSTMENT MECHANISM (WRAM) 6
VIII. MODIFIED COST BALANCING ACCOUNT (MCBA) 7
IX. MAINTAINING LEAST-COST WATER MIX 7
X. RECOVERY AND REFUND OF BALANCING ACCOUNTS 8
XI. SCHEDULES 9
XII. MONITORING AND DATA COLLECTION 11
XIII. COMPREHENSIVE PLANNING STUDY (CPS)/CBA 11
XIV. RETURN ON EQUITY 11

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AMENDED SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES, THE CITY OF DUARTE, AND CALIFORNIA-AMERICAN WATER COMPANY ON 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"), the City of Duarte, and California-American Water Company (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 the related decoupling mechanisms, Water Revenue Adjustment Mechanisms ("WRAMs") and Modified Cost Balancing Accounts ("MCBAs").

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. California-American Water provides service to approximately 27,600 customers (including Private Fire Service) in its Los Angeles District, which is comprised of three service areas; the Baldwin Hills, Duarte, and San Marino Service Areas.

B. The three California-American Water service areas share the same tariff sheets. These tariff sheets are listed below, and include General Metered Service, Measured Irrigation Service, and Private Fire Protection Service. The tariff sheets are attached to the Phase 1 decision in this proceeding D.07-11-014 ("Order Modifying Decision 07-08-030") as Exhibit C and include:

1. Schedule No. LA-1; General Metered Service
2. Schedule No. LA-3M; Measured Irrigation Service
3. Schedule No. LA-4; Private Fire Protection Service

C. All of the residential, commercial, industrial, public authority and "other" customers[1] in the three areas have metered service connections. These customers are generally billed on a bimonthly basis. There are some customers in the cities of Bradbury and Duarte that receive measured irrigation service. These customers pay a service charge and a quantity charge per ccf. The only flat rate customers are privately owned fire protection connections in each service area

III. PILOT PROGRAM

A. Overview:

1. The Parties agree that the conservation rate design and related decoupling mechanisms (WRAM and MCBA) constitute a Pilot Program to become effective within 90 days after a Commission decision adopting the proposed settlement. This period will allow for the distribution of information regarding conservation rates to customers.
2. This Pilot Program will be reviewed in the next general rate case ("GRC") filing. The filing dates for the next GRC are pursuant to D.07-05-062 in the Commission's Rate Case Plan proceeding.
3. Disparate Impact: 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.

[1] "Other" metered customers are those with private fire hydrant service. This is distinct from private fire protection service, which is provided under a separate tariff, Schedule No. LA-4.

B. Conservation Rates:

1. Conservation rate designs are proposed for all customer classes except "Other" and private fire protection service.[2] The customer classes included are: residential, commercial, industrial, and public authority, and in the Duarte Service Area, pressure irrigation and gravity irrigation.
2. Quantity Rates for Residential Customers: Residential customers will have an increasing quantity (or block) rate design with a seasonal adder. (Quantity or volumetric rates are used to recover a portion of fixed costs and 100% of the variable cost. In traditional rate design, quantity charges recover approximately 50% of the utility's fixed costs and 100% of the utility's variable costs.)
3. Quantity Rates for Non-Residential Customers (except private fire service and private hydrant service):[3] The following customer classes will have single quantity rates with seasonal adders: commercial, industrial, public authority, pressure irrigation, and gravity irrigation.
4. Service Charges: Additional fixed costs will be moved from the meter charge into the quantity charge for the following customer classes: commercial, industrial, public authority, gravity irrigation, and pressure irrigation. (Service or meter charges are used to recover a portion of fixed costs. In traditional rate design, service charges recover approximately 50% of the utility's fixed costs.)

C. Rate Design Parameters:

1. Revenue Requirement: The revenue requirement for each service area and customer class will be the same under conservation rates as they are under the current rate structure.
2. Consumption Data: The proposed conservation rate designs are based on consumption data from 2006 and 2007 because it is the most recent data available. The Parties evaluated this data using bill frequency analysis (consumption analysis) using meter readings from each of the service areas.
3. To evaluate how much the service charge could be reduced (how much fixed cost could move to the quantity charge), the Parties considered conservation goals, such as consistency with Best Management Practices 11 of the California Urban Water Conservation Council,[4] and ratepayer impact. Ratepayer impact was evaluated through bill impact analysis as described in the Schedules section below.

D. Related Accounting Mechanisms:

1. A Water Revenue Adjustment Mechanism (WRAM) will be authorized for each service area.

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[2] The proposed rates in the Settlement Agreement are based upon the revenue requirements set forth in the proposed decision in Phase 1 of this proceeding (D.07-08-030, and D.07-11-014).

[3] As defined in Section V.A.

[4] Memorandum of Understanding Regarding Urban Water Conservation in California. Best Management Practice 11, Retail Conservation Pricing. June 2007. pg 53-58. California Urban Water Conservation Council. 1/31/08 <http://www.cuwcc.org/uploads/memorandum/MOU-07-06-13.pdf >

2. Modified Cost Balancing Accounts (MCBAs) for purchased water and purchased power will be authorized for each service area.[5]

IV. RESIDENTIAL CUSTOMERS

A. Service Charges

1. The portion of fixed cost recovered in the service charge is reduced to 50% of what was recovered under the traditional rate design.
2. Due to the movement of additional fixed costs to the quantity charge, a greater percentage of the total revenue requirement comes from the quantity charges.

B. Quantity Charges and Consumption Blocks

1. The Parties propose a three-tiered increasing block rate structure to replace the single quantity charge.
2. Consumption Blocks: To evaluate where to set the consumption break points between tiers, the Parties considered ratepayer impact, maintained revenue neutrality, and followed guidelines in the CUWCC Handbook,[6] and AWWA M1 manual.[7]
3. The three tiers of consumption blocks are based on seasonal averages as follows:
   a. Tier 1 – Metered usage from zero units to the median usage in the lowest usage month (February), 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.
   b. Tier 2 – Metered usage from the top of Tier 1 to one standard deviation above the midpoint between mean and median "summer" usage (May through October).
      i. In the Duarte Service Area, the number of customers using more than 100 ccfs per month is much greater than in the San Marino and Baldwin Hills Service Areas. In calculating summer mean, median, and standard deviation to determine the top of Tier 2 for Duarte, the Parties excluded from the data customers using more than 100 ccfs in Duarte.[8] This modification increases the percentage of customers in Duarte's Tier 3 to a level that is comparable to the percentages of customers in Tier 3 for San Marino and Baldwin Hills.
   c. Tier 3 – All consumption above the top of Tier 2.

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[5] Pump taxes are tracked in the purchased water balancing account for each service area.

[6] Chesnutt, Thomas; Beecher, Janice; Mann, Patrick; Clark, Don; Hanemann, Michael; Raftelis, George; McSpadden, Casey; Pekelney, David; Christianson, John; and Krop, Richard, Designing, Evaluating, and Implementing Conservation Rate Structures. A Handbook Sponsored by the California Urban Water Conservation Council (1997), Chapter 6 (Conservation Rate Design).

[7] American Water Works Association, Principles of Water Rates, Fees, and Charges, AWWA Manual M1, Fifth Edition, Denver (2000), Section III (Rate Design), Chapter 12 (Increasing Block Rates).

[8] These customers were not excluded from any other calculations.

4. The three tiers of quantity charges with seasonal adders are as follows:
    a. In winter (November 1 – April 30):
        i. The rate for Tier 1 is approximately 15-20% higher than the current single quantity rate.
        ii. The rate for Tier 2 is designed to be approximately 10% greater than the rate for Tier 1.
        iii. The rate for Tier 3 is designed to be approximately 20% greater than the rate for Tier 1.
    b. In summer (May 1 – October 31):
        i. The rate for Tier 1 is approximately 15-21% higher than the current single quantity rate.
        ii. The rate for Tier 2 is designed to be approximately 15% greater than the rate for Tier 1.
        iii. The rate for Tier 3 is designed to be approximately 25% greater than the rate for Tier 1.
    c. The three tiers of seasonal rates are designed to be revenue neutral for each customer class and in each service area.

V. NON-RESIDENTIAL CUSTOMERS

A. For the commercial, industrial, public authority, gravity irrigation, and pressure irrigation customer classes, the Parties propose a conservation rate design consisting of a reduced service charge and a single (uniform) quantity charge for each customer class.

B. Quantity and Service Charges: The single quantity charge will recover a greater percentage of fixed cost than the single quantity charge that would result from the standard rate design currently in place consistent with the following:

    1. Service charges will be reduced by approximately 50%, with corresponding increases in the quantity rate to achieve revenue recovery neutrality.

C. Seasonal Adder: For the non-residential customers described in paragraph A, above, customer classes and metered irrigation customers, there will also be a seasonal adder that will increase quantity rates during the summer months to reduce peak demand.

    1. There will be a 10% differential between winter and summer rates.

D. The Parties agree that rates for "Other" and Private Fire Protection Service will not change.

VI. 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 California-American Water 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 California-American Water ratepayers.

B. Decoupling for California-American Water will be accomplished through both of the following mechanisms:

1. A Water Revenue Adjustment Mechanism (WRAM) for each service area in the Los Angeles District.
2. A Modified Cost Balancing Account (MCBA) for each service area. MCBAs will replace existing cost balancing accounts for purchased power, and purchased water (pump taxes are tracked in the purchased water balancing account for each service area).
3. Together, these decoupling mechanisms will ensure recovery of the adopted fixed costs recovered through the quantity charge, and the actual variable costs for purchased power, purchased water, and pump taxes.[9] The fixed costs not included in these accounts will be recovered through the service charge, which is a monthly charge that customers pay regardless of consumption.
4. In accordance with established Commission practice, the WRAM and MCBA accounts will accrue interest at the 90-day commercial paper rate.

VII. WATER REVENUE ADJUSTMENT MECHANISM (WRAM)

A. The WRAM will track the difference between the total quantity charge revenues authorized by the Commission ("Total Adopted Quantity Revenues"), and the total revenues actually recovered through the quantity charge based on actual sales ("Total Actual Quantity Revenues"), excluding:

1. Revenue from Private Fire Protection Service (Schedule No. LA-4), and;
2. Revenue from the "Other" class of general metered customers.

B. Worksheets 5 from the Baldwin Hills Service Area on page 13 of the Attachment provides an example of how the Parties intend for the WRAM and MCBAs to operate.

C. The Parties agree that there will be no net change in taxes associated with the WRAM accounts.

[9] As discussed in footnote 9, *infra*, the revenue decoupling mechanisms also ensure recovery of other variable costs (such as chemicals and uncollectibles), which are *de minimus*, at adopted levels.

VIII. MODIFIED COST BALANCING ACCOUNT (MCBA)

A. A Modified Cost Balancing Account (MCBA) will replace any "incremental cost balancing accounts" (ICBAs) that California-American Water currently has in its Los Angeles District.

   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.

   2. An ICBA tracks cost changes attributable to changes in unit price, but not changes in the amount of consumption.

   3. An MCBA tracks changes in price and quantity (amount of consumption), and will capture both cost savings and cost increases.

B. The MCBAs will capture the cost savings and cost increases associated with purchased water, purchased power, and pump taxes (all of which are recovered through the quantity charge under both the current and proposed rate designs).

C. Each of California-American Water's three service areas in the Los Angeles District will have its own set of balancing accounts, and each service area will have a separate balancing account for purchased power and purchased water. Pump taxes are tracked in the purchased water balancing account for each service area.

D. In particular, for purchased water, purchased power, and pump taxes, the MCBAs will track the difference between the total variable costs authorized by the Commission ("Total Adopted Variable MCBA Costs"), and the total variable costs actually incurred ("Total Actual Variable MCBA Costs").[10]

IX. 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, California-American Water stipulates that it will exercise due diligence in ensuring the least-cost water mix of its water sources.

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

C. California-American Water will make a showing in the 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.

D. For the purpose of this Pilot Program, significant changes in water purchases are defined for each service area as follows:

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[10] The other *de minimus* variable costs described in footnote 8, *supra,* are not tracked in the MCBAs because they are a small amount and do not vary significantly. Recovery of these other variable costs at adopted levels is ensured, however, because any under- or over-collection of the revenues associated with these costs is included in the WRAM balance. *See* Section VII, *infra*.

a. Baldwin Hills - if production from the Central Basin varies by more than 5% from the adjudicated production right.

b. San Marino - when the annual volume of purchased water in the San Marino Service Area is greater than 10% of the purchased water adopted in the most recently adopted test year for the district.

c. Duarte - this requirement does not apply because there is no purchased water for this service area.

X. 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 from adopted levels.

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. Reporting and Interest Accrual Requirements: The Parties agree that the amounts in the WRAM and MCBA accounts will be reported as follows:

1. By March 31st of each year, California-American Water 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. WRAMs: The written report will include a section on the WRAM in each service area showing the revenue over- or under-collection with respect to actual (or recorded) water sales, by customer class, as of December 31st of the preceding calendar year. Differences between Total Adopted Quantity Revenues and Total Actual Quantity Revenues will be tracked in the WRAM and accrue interest at the 90-day commercial paper rate.

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

D. The Parties agree that the net balances of the WRAM and MCBA accounts will be resolved in the following manner:

1. The WRAM and MCBA accounts for each service area will always be considered together for the purposes of determining the need for additional revenue recovery from, or for refunds to, ratepayers in that service area, and will be netted prior to any refund or recovery.

2. California-American Water will track revenues in the WRAM account in each service area by customer class for analysis purposes, but implementation of a surcharge or surcredit will be done considering the net balance of the WRAM and MCBA accounts for all customer classes in each service area.
3. If the annual report shows that the combined over- or under-collection for the WRAM or the MCBA in any service area exceeds 2.5% of the service area's total recorded revenue requirement for the prior calendar year, California-American Water will file an advice letter within 30 days that amortizes the balance in all of the WRAM and MCBA accounts in the service area.
4. If the 2.5% threshold is not met, these balancing accounts will be amortized in the next GRC.
5. Recovery of under-collections and refunds of over-collections will be passed on to ratepayers through volumetric surcharges and surcredits.

XI. SCHEDULES

The Attachment provides rate design and bill information for residential and non-residential customers for each of the three service areas in the Los Angeles District.[11]

A. The Baldwin Hills Service Area: The eight worksheets for Baldwin Hills include one additional worksheet (Worksheet 5) that is not included for the other service areas.

1. Worksheet 1 "Rate Design" shows the proposed rate design for residential, commercial, public authority, industrial, and other customers in the service area. A description of the rate design changes appear at the top of each page of this worksheet.
2. Worksheet 2 "Typical Bills" shows the typical bills for six different residential customer profiles (small (25th percentile of customers), annual average, winter average, summer average, large (90th percentile of customers) and largest (largest recorded monthly use in 2006-2007)). The profiles show what a customer fitting that profile would 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.
3. Worksheet 3 "Bills by Consumption" shows what residential customers will experience under the water conservation rate design during the summer and the winter, 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.

[11] The name and number of each worksheet appear on the top right-hand corner of each page, and the name of the service area appears on the top left-hand corner of each page.

4. Worksheet 4 "Total Non-Res Bills" shows the typical bills and the impact of the proposed conservation rate design for four different non-residential customer profiles (small (25th percentile of customers), average summer, average winter, and large (90th percentile of customers)) for each customer class included in the rate design changes (commercial, public authority, industrial, pressure irrigation, gravity irrigation).
5. Worksheet 5 "WRAM MCBA Example" shows an example of the way the Parties intend for the Water Revenue Adjustment Mechanism and Modified Cost Balancing Account to work together to decouple revenues from sales. This example assumes 10 percent water conservation is achieved.
6. Worksheet 6 "Total Bills" is a chart showing the change in the total bills for residential customers comparing current and proposed rates in the winter and summer.
7. Worksheet 7 "Average Cost" is a chart showing the average unit cost per Ccf at various consumption levels, comparing current and proposed rates in the winter and summer for residential customers.
8. Worksheet 8 "Marginal Cost" is a chart showing the marginal cost structure of the proposed rate structure in the summer and winter (the unit cost per Ccf as a customer moves from tier to tier). The chart graphically depicts the steps in the rate structure as the price by tier changes.

B. The Duarte and San Marino Service Areas: There are seven worksheets for each service area.

1. Worksheet 1 "Rate Design" shows the proposed rate design for residential, commercial, public authority, industrial, and other customers in the service area. A description of the rate design changes appear at the top of each page of this worksheet.
2. Worksheet 2 "Typical Bills" shows the typical bills for six different residential customer profiles (small (25th percentile of customers), annual average, winter average, summer average, large (90th percentile of customers) and largest (largest recorded monthly use in 2006-2007)). The profiles show what a customer fitting that profile would 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.
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4. Worksheet 4 "Total Non-Res Bills" shows the typical bills and the impact of the proposed conservation rate design for four different non-residential customer profiles (small (25th percentile of customers), average summer, average winter, and large (90th

percentile of customers)) for each customer class included in the rate design changes (commercial, public authority, industrial, pressure irrigation, gravity irrigation).

5. Worksheet 5 "Total Bills" is a chart showing the change in the total bills for residential customers comparing current and proposed rates in the winter and summer.
6. Worksheet 6 "Average Cost" is a chart showing the average unit cost per Ccf at various consumption levels, comparing current and proposed rates in the winter and summer for residential customers.
7. Worksheet 7 "Marginal Cost" is a chart showing the marginal cost structure of the proposed rate structure in the summer and winter (the unit cost per Ccf as a customer moves from tier to tier). The chart graphically depicts the steps in the rate structure as the price by tier changes.

XII. MONITORING AND DATA COLLECTION

California-American Water will track data, such as billing and usage data by meter size, by month, and by class of customer, for use in analyzing customer response to the proposed conservation rates so that it is readily available to the Commission and the Parties to evaluate results of this Pilot Project.

XIII. COMPREHENSIVE PLANNING STUDY (CPS)/CBA

A. California-American Water shall provide, upon request, drafts of the Comprehensive Planning Study (CPS) and Condition-Based Assessment of Buried Infrastructure (CBA) to any city with residents who are customers of California-American Water's Los Angeles District by July 15, 2008. Upon request, California-American Water will also meet with any city with residents who are customers of California-American Water's Los Angeles District to discuss the draft CPS and/or draft CBA. The city or cities shall have thirty (30) days to review and provide comment on the CPS and CBA in writing before California-American Water finalizes these reports.

B. California-American Water shall finalize its CPS and CBA for its Los Angeles District before it files its 2009 General Rate Case application for its Los Angeles District.

C. The intent of these reports is to determine the need for system capital improvement and the replacement of aging infrastructure, address compliance with local applicable and industry standards, and to prioritize and schedule these improvements.

XIV. RETURN ON EQUITY

A. The Commission opened Investigation ("I.") 07-01-022 (Water Conservation OII) to consider conservation rates and programs for Class A water utilities.

1. In Phase 1A of I.07-01-022, the Commission adopted WRAM/MCBA mechanisms for California Water Service Company (CWS") and Park Water Company ("Park"), in conjunction with conservation rate designs, in D.08-02-036. The Parties agree that

the WRAM/MCBA mechanisms proposed in this Settlement are substantially similar to the WRAM/MCBA mechanisms adopted for CWS and Park.

2. In Phase 1B of I.07-01-022, the Commission is currently considering the effect of the WRAM/MCBA mechanisms on the returns on equity ("ROEs") of CWS and Park. The Parties agree that, through D.07-08-030 (as modified by D.07-11-014, D.07-12-058, and D.08-01-034), the Commission has deferred to I.07-01-022 the issue of the effect of the WRAM/MCBA mechanisms on the ROE of California-American Water's Los Angeles District.

B. If the Commission adopts a generic basis point adjustment to ROE for companies that have WRAM/MCBA mechanisms that are similar to those approved for CWS and Park in D.08-02-036 in Phase 1B of I.07-01-022, the Parties agree that the same generic ROE adjustment should be applied to California-American Water's Los Angeles District, and:

   1. The ROE adjustment shall be applied to California-American Water's Los Angeles District when the conservation rates in the Trial Program are implemented, and shall continue for the duration of the Trial Program;
   2. If the Commission has not yet issued a decision in Phase 1B of I.07-01-022 by the time the conservation rates in the Trial Program are implemented, the conservation rates in the Trial Program shall be subject to true-up, to the date of implementation of those rates, for the purposes of implementing the ROE adjustment, and;
   3. California-American Water will consult with DRA prior to submitting an advice letter to implement the ROE adjustment.

C. If the Commission issues a decision regarding ROE in Phase 1B of I.07-01-022 that is not consistent with the generic ROE adjustment described in this Section, the Parties agree to meet to discuss how that decision should affect California-American Water's Los Angeles District during the Trial Program.

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March 24, 2008

ATTACHMENT

TABLE OF CONTENTS

Title	Page Number
Baldwin Hills Rate Design	
Worksheet 1 Rate Design	2
Worksheet 2 Typical Bills	8
Worksheet 3 Bills by Consumption	10
Worksheet 4 Typical Non-Res Bills	12
Worksheet 5 WRAM MCBA Example	13
Worksheet 6 Total Bills	14
Worksheet 7 Average Cost	15
Worksheet 8 Marginal Cost	16
Duarte Rate Design	
Worksheet 1 Rate Design	17
Worksheet 2 Typical Bills	24
Worksheet 3 Bills by Consumption	26
Worksheet 4 Typical Non-Res Bills	28
Worksheet 5 Total Bills	29
Worksheet 6 Average Cost	30
Worksheet 7 Marginal Cost	31
San Marino Rate Design	
Worksheet 1 Rate Design	32
Worksheet 2 Typical Bills	38
Worksheet 3 Bills by Consumption	40
Worksheet 4 Typical Non-Res Bills	42
Worksheet 5 Total Bills	43
Worksheet 6 Average Cost	44
Worksheet 7 Marginal Cost	45

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
c) WRAM for each service area
d) Modified cost balancing accounts for purchased water (including pump tax) and purchased power for each service area
e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (D.07-11-014)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030)**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 31.65	$ 10.19		5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protection Service base is 4"
Tariff - Quantity charge per ccf	$ 1.8905	$ 1.8905	$ 1.8905	$ 1.8905	$ -	$ 1.8905		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	8,206	1,626	134	50	68	30	10,113	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities (2007) -Sales in ccf	1,179,800 Ccf	262,287 Ccf	46,055 Ccf	110,160 Ccf	0 Ccf	881 Ccf	1,599,183 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 1,003,048	$ 198,633	$ 16,309	$ 6,108	$ 18,600	$ 3,665	$ 1,246,363	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity charge	$ 2,230,412	$ 495,854	$ 87,067	$ 208,257	$ -	$ 1,666	$ 3,023,255	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 3,233,460	$ 694,487	$ 103,376	$ 214,365	$ 18,600	$ 5,330	$ 4,269,618	
Adopted Quantities - Supply Mix							1,670,090 Ccf	
Purchase Water (ccf)							769,705 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)							900,385 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate							4.24%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Current Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%						**Overall**	**Comments**
Meter Charge % revenue	31.02%	28.60%	15.78%	29.19%	N/A	N/A	29.19%	
Quantity Charge % revenue	68.98%	71.40%	84.22%	70.81%			70.81%	Residential does not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
c) WRAM for each service area
d) Modified cost balancing accounts for purchased water (including pump tax) and purchased power for each service area
e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff					**Adopted Connections (D.07-11-014)**					
Meter Charge % revenue	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**GPM Ratio (ratio of flow by connection diameter)**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		1.00	3,842	251	1	0		
3/4" (no 3/4" meters in this district)	$ 10.19	$ 10.19		1.00	0	0	0	0		
1"	$ 25.46	$ 25.46		2.50	1,691	265	7	0		
1.5"	$ 50.90	$ 50.90		5.00	11	48	4	0		
2"	$ 81.44	$ 81.44		8.00	7	49	10	0		
3"	$ 152.70	$ 152.70		15.00	0	2	1	0		2
4"	$ 254.50	$ 254.50	$ 31.65	25.00	1	2	0	2	6	
6"	$ 509.00	$ 509.00	$ 47.48	50.00	0	0	0	0	20	
8"	$ 814.40	$ 814.40	$ 63.31	80.00	0	0	0	0	7	
10"	$ 1,170.70	$ 1,170.70	$ 79.13	115.00	0	0	0	0	0	
Quantity Charges					**5,552**	**617**	**23**	**2**	**33**	**2**
Any usage level $/Cc	**$ 1.89**	**$ 1.89**								

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

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Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to								
Quantity charge revenue target	$ 502,177	$ 99,481	$ 8,155	$ 3,054	$ -	$ -	$ 612,866	
Equivalent Units	8,206	1,626	134	50	68	30	10,113	Meter connections expressed as number of standard 5/8" meters
Meter chg rev	$ 502,177	$ 99,152	$ 8,155	$ 3,054	$ 18,600	$ 3,665	$ 634,802	
Meter chg $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.70	$ 10.20	$ 5.20	$/mo per 5/8" equivalent unit
Adopted Sales ccf	1,179,800 Ccf	262,287 Ccf	46,055 Ccf	110,160 Ccf	0 Ccf	881 Ccf	1,442,087 Ccf	
New quantity charge revenue target	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153	
New SQR	$ 2.315	$ 2.269	$ 2.068	$ 1.918	N/A	$ 6.050	$ 2.275	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test							**Overall**	**Comments**
Meter Charge % revenue	15.53%	14.28%	7.89%	1.42%	N/A	N/A	14.86%	
Quantity Charge % revenue	84.47%	85.72%	92.11%	98.58%			85.14%	As long as quantity charge % revenues are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	
Total Revenue Requirement	$ 3,233,460	$ 694,158	$ 103,376	$ 214,365	$ 18,600	$ 8,995	**$ 4,272,955**
Meter charge $/EU/mo	$ 5.10	$ 5.10	$ 5.10	$ 5.10	N/A	$ 10.20	$ 5.20
Quantity charge if SQR	$ 2.315	$ 2.269	$ 2.068	$ 1.918	N/A	$ 6.050	$ 2.275

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail				**Adopted Connections (D.07-11-014)**					
Size	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 5.10	$ 5.10	1.00	3,842	251	1	0		
3/4" (no 3/4" meters in this district)	$ 5.10	$ 5.10	1.00	0	0	0	0		
1"	$ 12.75	$ 12.75	2.50	1,691	265	7	0		
1.5"	$ 25.50	$ 25.50	5.00	11	48	4	0		
2"	$ 40.80	$ 40.80	8.00	7	49	10	0		
3"	$ 76.50	$ 76.50	15.00	0	2	1	0		2
4"	$ 127.50	$ 127.50	25.00	1	2	0	2	6	
6"	$ 255.00	$ 255.00	50.00	0	0	0	0	20	
8"	$ 408.00	$ 408.00	80.00	0	0	0	0	7	
10"	$ 586.50	$ 586.50	115.00	0	0	0	0	0	
				5,552	**617**	**23**	**2**	**33**	**2**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
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Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

RESIDENTIAL SQR	**$**	**2.3150**
New Quantity Revenue Targe	**$**	**2,731,283**

Residential Rate Design	Top of Tier (monthly)	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 13	-	0.9445	$ 2.1865	9.29%	29.13%	18.88%	44.72%	343,636 Ccf	$ 751,367	27.51%
Tier 2 winter	13 to 33	10%	1.0389	$ 2.4052	26.95%	13.17%	22.73%		155,428 Ccf	$ 373,830	13.69%
Tier 3 winter	>33	20%	1.1334	$ 2.6238	8.48%	2.42%	3.11%		28,576 Ccf	$ 74,977	2.75%
Tier 1 summer	no change	-	0.9445	$ 2.1865	6.73%	31.03%	18.26%	55.28%	366,048 Ccf	$ 800,370	29.30%
Tier 2 summer	no change	15%	1.0862	$ 2.5145	32.55%	19.87%	30.06%		234,376 Ccf	$ 589,338	21.58%
Tier 3 summer	no change	25%	1.1806	$ 2.7331	15.99%	4.39%	6.97%		51,736 Ccf	$ 141,401	5.18%
Top of Tier - Break points	13				100.00%	100.00%			1,179,800 Ccf	$ 2,731,283	100.00%
	33										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** negative number means too much revenue collected

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales) as % of New Res Q revenue target **0.00%**

COMMERCIAL SQR	**$**	**2.2685**
New COMMERCIAL Q Revenue Targe	**$**	**595,006**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9497	2.1543	47.00%	123,275 Ccf	$ 265,577
All COMMERCIAL Meters (summer)	all	1.0446	2.3698	53.00%	139,012 Ccf	$ 329,429
TOTALS		**% increase in quantity rate**	**25.35%**	100.00%	262,287 Ccf	$ 595,006

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR	**$**	**2.0676**
New PUBLIC AUTHORITY Q Revenue Targe	**$**	**95,222**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9407	$1.9450	37.00%	17,040 Ccf	$ 33,144
All PUBLIC AUTHORITY Meters (summer)	all	1.0348	$2.1395	63.00%	29,015 Ccf	$ 62,078
TOTALS		**% increase in quantity rate**	**13.17%**	100.00%	46,055 Ccf	$ 95,222

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

INDUSTRIAL SQR	**$**	**1.9182**
New INDUSTRIAL Q Revenue Targe	**$**	**211,311**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All INDUSTRIAL Meters (winter)	all	0.9470	$1.8165	44.00%	48,470 Ccf	$ 88,046
All INDUSTRIAL Meters (summer)	all	1.0417	$1.9981	56.00%	61,690 Ccf	$ 123,265
TOTALS		**% increase in quantity rate**	**5.69%**	100.00%	110,160 Ccf	$ 211,311

Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales)) ($) **$ -** negative number means too much revenue collected

Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales) as % of New INDUSTRIAL Q revenue target **0.00%**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
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e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixec cost to reduce meter charge)	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153
Total Quantity Revenue	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153
Revenue Neutrality Check	$ -	$ -	$ -	$ -		$ -	$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
Meter Charge Revenue	$ 502,176.60	$ 99,152.40	$ 8,154.66	$ 3,054.00	$ 18,600.00	$ 3,664.80	**$ 634,802.46**
Total Revenue	$ 3,233,459.74	$ 694,158.37	$ 103,376.30	$ 214,365.48	$ 18,600.00	$ 8,995.13	**$ 4,272,955.02**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.8905
Proposed	$ 5.10	
	Block 1 (winter)	$ 2.1865
	Block 2 (winter)	$ 2.4052
	Block 3 (winter)	$ 2.6238
	Block 1 (summer)	$ 2.1865
	Block 2 (summer)	$ 2.5145
	Block 3 (summer)	$ 2.7331
Tier 1 Block	13	ccf
Tier 2 Block	33	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

small user (winter)		consumption	10 ccf/month	
Current bill	$ 29.10			
block	rate	consumption	bill	
0 to 13	$ 2.1865	10	$ 21.87	
13 to 33	$ 2.4052	0	$ -	
>33	$ 2.6238	0	$ -	
		total bill	$ 26.97	
		Percent change in bill		**-7.32%**
		$ change in bill		**$ (2.13)**

annual avg user (winter)		consumption	18 ccf/month	
Current bill	$ 44.22		$ 40.00	
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	5	$ 12.03	
>33	$ 2.6238	0	$ -	
		total bill	$ 45.55	
		Percent change in bill		**3.01%**
		$ change in bill		**$ 1.33**

small user (summer)		consumption	10 ccf/month	
Current bill	$ 29.10			
block	rate	consumption	bill	
0 to 13	$ 2.1865	10	$ 21.87	
13 to 33	$ 2.5145	0	$ -	
>33	$ 2.7331	0	$ -	
		total bill	$ 26.97	
		Percent change in bill		**-7.32%**
		$ change in bill		**$ (2.13)**

annual avg user (summer)		consumption	18 ccf/month	
Current bill	$ 44.22		$ 40.00	
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	5	$ 12.57	
>33	$ 2.7331	0	$ -	
		total bill	$ 46.10	
		Percent change in bill		**4.25%**
		$ change in bill		**$ 1.88**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.8905
Proposed	$ 5.10	
	Block 1 (winter)	$ 2.1865
	Block 2 (winter)	$ 2.4052
	Block 3 (winter)	$ 2.6238
	Block 1 (summer)	$ 2.1865
	Block 2 (summer)	$ 2.5145
	Block 3 (summer)	$ 2.7331
Tier 1 Block	13	ccf
Tier 2 Block	33	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

average winter user		consumption		17 ccf/month
Current bill	$ 42.33			
block		consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	4	$ 9.62	
>33	$ 2.6238	0	$ -	
		total bill	$ 43.15	
		Percent change in bill		**1.93%**
		$ change in bill		**$ 0.82**

average summer user		consumption		20 ccf/month
Current bill	$ 48.00			
block		consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	7	$ 17.60	
>33	$ 2.7331	0	$ -	
		total bill	$ 51.13	
		Percent change in bill		**6.51%**
		$ change in bill		**$ 3.13**

large user (winter)		consumption		32 ccf/month
Current bill	$ 70.69			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	19	$ 45.70	
>33	$ 2.6238	0	$ -	
		total bill	$ 79.22	
		Percent change in bill		**12.08%**
		$ change in bill		**$ 8.54**

largest user (winter)		consumption		198 ccf/month
Current bill	$ 384.51			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	20	$ 48.10	
>33	$ 2.6238	165	$ 432.93	
		total bill	$ 514.56	
		Percent change in bill		**33.82%**
		$ change in bill		**$ 130.05**

large user (summer)		consumption		32 ccf/month
Current bill	$ 70.69			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	19	$ 47.78	
>33	$ 2.7331	0	$ -	
		total bill	$ 81.30	
		Percent change in bill		**15.02%**
		$ change in bill		**$ 10.61**

largest user (summer)		consumption		318 ccf/month
Current bill	$ 611.37			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	20	$ 50.29	
>33	$ 2.7331	285	$ 778.95	
		total bill	$ 862.76	
		Percent change in bill		**41.12%**
		$ change in bill		**$ 251.39**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	13	tier 2	33

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

WINTER

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Winter Rates						Change in Winter Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per	Meter Charge	Quantity Charge	Total current	Current avg	Meter Chg	winter Tier 1	winter Tier 2	winter Tier 3	Proposed Winter	Proposed avg	Dollar ($)	Percent (%)
Month		$1.8905	Bill	unit cost		$2.1865	$2.4052	$2.6238	Total Bill	winter unit cost	Difference	Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.89	12.08	1.89	5.10	2.19			7.29	2.19	-4.79	-39.68%
2	10.19	3.78	13.97	1.89	5.10	4.37			9.47	2.19	-4.50	-32.20%
3	10.19	5.67	15.86	1.89	5.10	6.56			11.66	2.19	-4.20	-26.49%
4	10.19	7.56	17.75	1.89	5.10	8.75			13.85	2.19	-3.91	-22.00%
5	10.19	9.45	19.64	1.89	5.10	10.93			16.03	2.19	-3.61	-18.38%
6	10.19	11.34	21.53	1.89	5.10	13.12			18.22	2.19	-3.31	-15.39%
7	10.19	13.23	23.42	1.89	5.10	15.31			20.41	2.19	-3.02	-12.88%
8	10.19	15.12	25.31	1.89	5.10	17.49			22.59	2.19	-2.72	-10.75%
9	10.19	17.01	27.20	1.89	5.10	19.68			24.78	2.19	-2.43	-8.92%
10	10.19	18.91	29.10	1.89	5.10	21.87			26.97	2.19	-2.13	-7.32%
11	10.19	20.80	30.99	1.89	5.10	24.05			29.15	2.19	-1.83	-5.92%
12	10.19	22.69	32.88	1.89	5.10	26.24			31.34	2.19	-1.54	-4.68%
13	10.19	24.58	34.77	1.89	5.10	28.42			33.52	2.19	-1.24	-3.57%
14	10.19	26.47	36.66	1.89	5.10	28.42	2.41		35.93	2.20	-0.73	-1.98%
15	10.19	28.36	38.55	1.89	5.10	28.42	4.81		38.34	2.22	-0.21	-0.55%
16	10.19	30.25	40.44	1.89	5.10	28.42	7.22		40.74	2.23	0.30	0.75%
17	10.19	32.14	42.33	1.89	5.10	28.42	9.62		43.15	2.24	0.82	1.93%
18	10.19	34.03	44.22	1.89	5.10	28.42	12.03		45.55	2.25	1.33	3.01%
19	10.19	35.92	46.11	1.89	5.10	28.42	14.43		47.96	2.26	1.85	4.00%
20	10.19	37.81	48.00	1.89	5.10	28.42	16.84		50.36	2.26	2.36	4.92%
21	10.19	39.70	49.89	1.89	5.10	28.42	19.24		52.77	2.27	2.88	5.76%
22	10.19	41.59	51.78	1.89	5.10	28.42	21.65		55.17	2.28	3.39	6.55%
23	10.19	43.48	53.67	1.89	5.10	28.42	24.05		57.58	2.28	3.90	7.28%
24	10.19	45.37	55.56	1.89	5.10	28.42	26.46		59.98	2.29	4.42	7.95%
25	10.19	47.26	57.45	1.89	5.10	28.42	28.86		62.39	2.29	4.93	8.59%
26	10.19	49.15	59.34	1.89	5.10	28.42	31.27		64.79	2.30	5.45	9.18%
27	10.19	51.04	61.23	1.89	5.10	28.42	33.67		67.20	2.30	5.96	9.74%
28	10.19	52.93	63.12	1.89	5.10	28.42	36.08		69.60	2.30	6.48	10.26%
29	10.19	54.82	65.01	1.89	5.10	28.42	38.48		72.01	2.31	6.99	10.76%
30	10.19	56.72	66.91	1.89	5.10	28.42	40.89		74.41	2.31	7.51	11.22%
31	10.19	58.61	68.80	1.89	5.10	28.42	43.29		76.82	2.31	8.02	11.66%
32	10.19	60.50	70.69	1.89	5.10	28.42	45.70		79.22	2.32	8.54	12.08%
33	10.19	62.39	72.58	1.89	5.10	28.42	48.10		81.63	2.32	9.05	12.47%
34	10.19	64.28	74.47	1.89	5.10	28.42	48.10	2.62	84.25	2.33	9.78	13.14%
35	10.19	66.17	76.36	1.89	5.10	28.42	48.10	5.25	86.88	2.34	10.52	13.77%
36	10.19	68.06	78.25	1.89	5.10	28.42	48.10	7.87	89.50	2.34	11.25	14.38%
37	10.19	69.95	80.14	1.89	5.10	28.42	48.10	10.50	92.12	2.35	11.98	14.96%
38	10.19	71.84	82.03	1.89	5.10	28.42	48.10	13.12	94.75	2.36	12.72	15.50%
39	10.19	73.73	83.92	1.89	5.10	28.42	48.10	15.74	97.37	2.37	13.45	16.03%
40	10.19	75.62	85.81	1.89	5.10	28.42	48.10	18.37	99.99	2.37	14.18	16.53%
50	10.19	94.53	104.72	1.89	5.10	28.42	48.10	44.60	126.23	2.42	21.52	20.55%
60	10.19	113.43	123.62	1.89	5.10	28.42	48.10	70.84	152.47	2.46	28.85	23.34%
70	10.19	132.34	142.53	1.89	5.10	28.42	48.10	97.08	178.71	2.48	36.18	25.39%
80	10.19	151.24	161.43	1.89	5.10	28.42	48.10	123.32	204.95	2.50	43.52	26.96%
90	10.19	170.15	180.34	1.89	5.10	28.42	48.10	149.56	231.19	2.51	50.85	28.20%
100	10.19	189.05	199.24	1.89	5.10	28.42	48.10	175.80	257.42	2.52	58.18	29.20%
110	10.19	207.96	218.15	1.89	5.10	28.42	48.10	202.03	283.66	2.53	65.52	30.03%
120	10.19	226.86	237.05	1.89	5.10	28.42	48.10	228.27	309.90	2.54	72.85	30.73%
130	10.19	245.77	255.96	1.89	5.10	28.42	48.10	254.51	336.14	2.55	80.18	31.33%
140	10.19	264.67	274.86	1.89	5.10	28.42	48.10	280.75	362.38	2.55	87.52	31.84%
150	10.19	283.58	293.77	1.89	5.10	28.42	48.10	306.99	388.61	2.56	94.85	32.29%
160	10.19	302.48	312.67	1.89	5.10	28.42	48.10	333.23	414.85	2.56	102.18	32.68%
170	10.19	321.39	331.58	1.89	5.10	28.42	48.10	359.46	441.09	2.56	109.52	33.03%
180	10.19	340.29	350.48	1.89	5.10	28.42	48.10	385.70	467.33	2.57	116.85	33.34%
190	10.19	359.20	369.39	1.89	5.10	28.42	48.10	411.94	493.57	2.57	124.18	33.62%
200	10.19	378.10	388.29	1.89	5.10	28.42	48.10	438.18	519.81	2.57	131.52	33.87%
300	10.19	567.15	577.34	1.89	5.10	28.42	48.10	700.56	782.19	2.59	204.85	35.48%
400	10.19	756.20	766.39	1.89	5.10	28.42	48.10	962.94	1044.57	2.60	278.18	36.30%
500	10.19	945.25	955.44	1.89	5.10	28.42	48.10	1225.32	1306.95	2.60	351.51	36.79%
600	10.19	1134.30	1144.49	1.89	5.10	28.42	48.10	1487.71	1569.33	2.61	424.84	37.12%
700	10.19	1323.35	1333.54	1.89	5.10	28.42	48.10	1750.09	1831.72	2.61	498.18	37.36%
800	10.19	1512.40	1522.59	1.89	5.10	28.42	48.10	2012.47	2094.10	2.61	571.51	37.54%
900	10.19	1701.45	1711.64	1.89	5.10	28.42	48.10	2274.85	2356.48	2.61	644.84	37.67%
1000	10.19	1890.50	1900.69	1.89	5.10	28.42	48.10	2537.23	2618.86	2.61	718.17	37.78%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	13	tier 2	33

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

SUMMER

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Summer Rates						Change in Summer Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $0.0000	Total current Bill	Current avg unit cost	Meter Charge	summer Tier 1 $2.1865	summer Tier 2 $2.5145	summer Tier 3 $2.7331	Proposed Summer Total Bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.89	12.08	1.89	5.10	2.19			7.29	2.19	-4.79	-39.68%
2	10.19	3.78	13.97	1.89	5.10	4.37			9.47	2.19	-4.50	-32.20%
3	10.19	5.67	15.86	1.89	5.10	6.56			11.66	2.19	-4.20	-26.49%
4	10.19	7.56	17.75	1.89	5.10	8.75			13.85	2.19	-3.91	-22.00%
5	10.19	9.45	19.64	1.89	5.10	10.93			16.03	2.19	-3.61	-18.38%
6	10.19	11.34	21.53	1.89	5.10	13.12			18.22	2.19	-3.31	-15.39%
7	10.19	13.23	23.42	1.89	5.10	15.31			20.41	2.19	-3.02	-12.88%
8	10.19	15.12	25.31	1.89	5.10	17.49			22.59	2.19	-2.72	-10.75%
9	10.19	17.01	27.20	1.89	5.10	19.68			24.78	2.19	-2.43	-8.92%
10	10.19	18.91	29.10	1.89	5.10	21.87			26.97	2.19	-2.13	-7.32%
11	10.19	20.80	30.99	1.89	5.10	24.05			29.15	2.19	-1.83	-5.92%
12	10.19	22.69	32.88	1.89	5.10	26.24			31.34	2.19	-1.54	-4.68%
13	10.19	24.58	34.77	1.89	5.10	28.42			33.52	2.19	-1.24	-3.57%
14	10.19	26.47	36.66	1.89	5.10	28.42	2.51		36.04	2.21	-0.62	-1.69%
15	10.19	28.36	38.55	1.89	5.10	28.42	5.03		38.55	2.23	0.01	0.02%
16	10.19	30.25	40.44	1.89	5.10	28.42	7.54		41.07	2.25	0.63	1.56%
17	10.19	32.14	42.33	1.89	5.10	28.42	10.06		43.58	2.26	1.25	2.96%
18	10.19	34.03	44.22	1.89	5.10	28.42	12.57		46.10	2.28	1.88	4.25%
19	10.19	35.92	46.11	1.89	5.10	28.42	15.09		48.61	2.29	2.50	5.43%
20	10.19	37.81	48.00	1.89	5.10	28.42	17.60		51.13	2.30	3.13	6.51%
21	10.19	39.70	49.89	1.89	5.10	28.42	20.12		53.64	2.31	3.75	7.52%
22	10.19	41.59	51.78	1.89	5.10	28.42	22.63		56.16	2.32	4.37	8.45%
23	10.19	43.48	53.67	1.89	5.10	28.42	25.14		58.67	2.33	5.00	9.31%
24	10.19	45.37	55.56	1.89	5.10	28.42	27.66		61.18	2.34	5.62	10.12%
25	10.19	47.26	57.45	1.89	5.10	28.42	30.17		63.70	2.34	6.25	10.87%
26	10.19	49.15	59.34	1.89	5.10	28.42	32.69		66.21	2.35	6.87	11.58%
27	10.19	51.04	61.23	1.89	5.10	28.42	35.20		68.73	2.36	7.49	12.24%
28	10.19	52.93	63.12	1.89	5.10	28.42	37.72		71.24	2.36	8.12	12.86%
29	10.19	54.82	65.01	1.89	5.10	28.42	40.23		73.76	2.37	8.74	13.45%
30	10.19	56.72	66.91	1.89	5.10	28.42	42.75		76.27	2.37	9.37	14.00%
31	10.19	58.61	68.80	1.89	5.10	28.42	45.26		78.79	2.38	9.99	14.52%
32	10.19	60.50	70.69	1.89	5.10	28.42	47.78		81.30	2.38	10.61	15.02%
33	10.19	62.39	72.58	1.89	5.10	28.42	50.29		83.81	2.39	11.24	15.48%
34	10.19	64.28	74.47	1.89	5.10	28.42	50.29	2.73	86.55	2.40	12.08	16.22%
35	10.19	66.17	76.36	1.89	5.10	28.42	50.29	5.47	89.28	2.41	12.92	16.92%
36	10.19	68.06	78.25	1.89	5.10	28.42	50.29	8.20	92.01	2.41	13.77	17.59%
37	10.19	69.95	80.14	1.89	5.10	28.42	50.29	10.93	94.75	2.42	14.61	18.23%
38	10.19	71.84	82.03	1.89	5.10	28.42	50.29	13.67	97.48	2.43	15.45	18.84%
39	10.19	73.73	83.92	1.89	5.10	28.42	50.29	16.40	100.21	2.44	16.29	19.42%
40	10.19	75.62	85.81	1.89	5.10	28.42	50.29	19.13	102.95	2.45	17.14	19.97%
50	10.19	94.53	104.72	1.89	5.10	28.42	50.29	46.46	130.28	2.50	25.56	24.41%
60	10.19	113.43	123.62	1.89	5.10	28.42	50.29	73.79	157.61	2.54	33.99	27.50%
70	10.19	132.34	142.53	1.89	5.10	28.42	50.29	101.13	184.94	2.57	42.42	29.76%
80	10.19	151.24	161.43	1.89	5.10	28.42	50.29	128.46	212.27	2.59	50.84	31.50%
90	10.19	170.15	180.34	1.89	5.10	28.42	50.29	155.79	239.60	2.61	59.27	32.87%
100	10.19	189.05	199.24	1.89	5.10	28.42	50.29	183.12	266.94	2.62	67.70	33.98%
110	10.19	207.96	218.15	1.89	5.10	28.42	50.29	210.45	294.27	2.63	76.12	34.90%
120	10.19	226.86	237.05	1.89	5.10	28.42	50.29	237.78	321.60	2.64	84.55	35.67%
130	10.19	245.77	255.96	1.89	5.10	28.42	50.29	265.12	348.93	2.64	92.97	36.32%
140	10.19	264.67	274.86	1.89	5.10	28.42	50.29	292.45	376.26	2.65	101.40	36.89%
150	10.19	283.58	293.77	1.89	5.10	28.42	50.29	319.78	403.59	2.66	109.83	37.39%
160	10.19	302.48	312.67	1.89	5.10	28.42	50.29	347.11	430.92	2.66	118.25	37.82%
170	10.19	321.39	331.58	1.89	5.10	28.42	50.29	374.44	458.26	2.67	126.68	38.21%
180	10.19	340.29	350.48	1.89	5.10	28.42	50.29	401.77	485.59	2.67	135.11	38.55%
190	10.19	359.20	369.39	1.89	5.10	28.42	50.29	429.10	512.92	2.67	143.53	38.86%
200	10.19	378.10	388.29	1.89	5.10	28.42	50.29	456.44	540.25	2.68	151.96	39.14%
300	10.19	567.15	577.34	1.89	5.10	28.42	50.29	729.75	813.56	2.69	236.22	40.92%
400	10.19	756.20	766.39	1.89	5.10	28.42	50.29	1003.06	1086.88	2.70	320.49	41.82%
500	10.19	945.25	955.44	1.89	5.10	28.42	50.29	1276.38	1360.19	2.71	404.75	42.36%
600	10.19	1134.30	1144.49	1.89	5.10	28.42	50.29	1549.69	1633.51	2.71	489.02	42.73%
700	10.19	1323.35	1333.54	1.89	5.10	28.42	50.29	1823.01	1906.82	2.72	573.28	42.99%
800	10.19	1512.40	1522.59	1.89	5.10	28.42	50.29	2096.32	2180.14	2.72	657.55	43.19%
900	10.19	1701.45	1711.64	1.89	5.10	28.42	50.29	2369.64	2453.45	2.72	741.81	43.34%
1000	10.19	1890.50	1900.69	1.89	5.10	28.42	50.29	2642.95	2726.77	2.72	826.08	43.46%

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

	Meter Charge	Quantity Charge
Current	$ 10.19	$ 1.8905
Proposed		
Commercial winter	$ 5.10	$ 2.1543
Commercial summer	$ 5.10	$ 2.3698
Public Authority winter	$ 5.10	$ 1.9450
Public Authority summer	$ 5.10	$ 2.1395
Industrial winter	$ 5.10	$ 1.8165
Industrial summer	$ 5.10	$ 1.9981

"small user" represents 25th percentile user
"large user" represents 90th percentile user

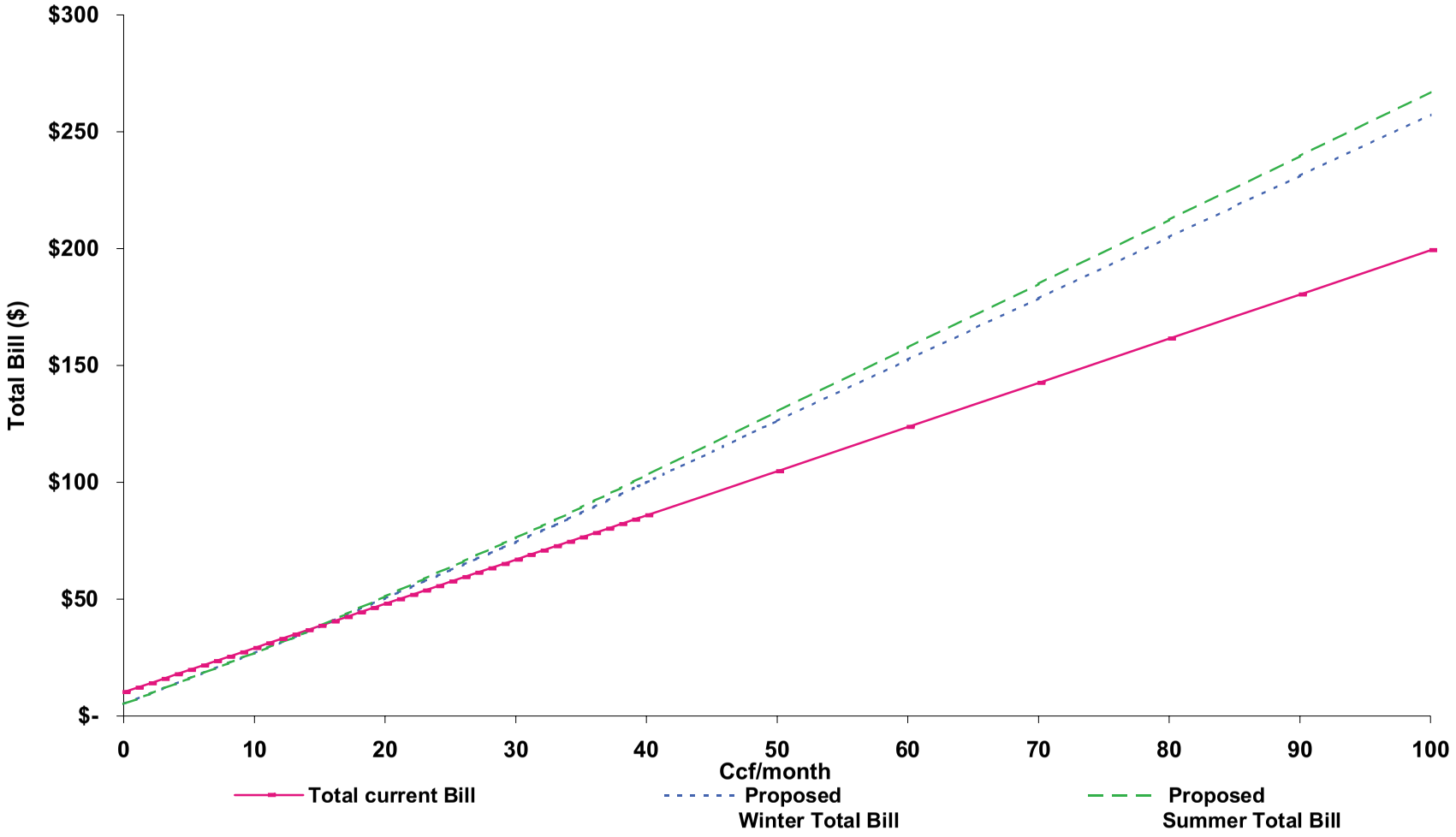
Season and User	Consumption	Total current bill	Total proposed bill	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	11	$ 30.9855	28.80	-7.06%	(2.19)
winter average user	34	$ 74.4670	78.35	5.21%	3.88
large user	73	$ 148.1965	162.37	9.56%	14.17
SUMMER - COMMERCIAL					
small user	11	$ 30.9855	31.17	0.59%	0.18
summer average user	36	$ 78.2480	90.41	15.55%	12.16
large user	69	$ 140.6345	168.62	19.90%	27.98
WINTER - PUBLIC AUTHORITY					
small user	10	$ 29.0950	24.55	-15.62%	(4.54)
winter average user	132	$ 259.7360	261.84	0.81%	2.11
large user	210	$ 407.1950	413.56	1.56%	6.36
SUMMER - PUBLIC AUTHORITY					
small user	4	$ 17.7520	13.66	-23.06%	(4.09)
summer average user	205	$ 397.7425	443.70	11.56%	45.96
large user	418	$ 800.4190	899.42	12.37%	99.00
WINTER - INDUSTRIAL	(There are only two industrial users. "small user" represents the smaller user and "large user" represents the larger of the two)				
small user	49	$ 102.8245	94.11	-8.48%	(8.72)
winter average user	2341	$ 4,435.8505	4,257.52	-4.02%	(178.33)
large user	4633	$ 8,768.8765	8,420.94	-3.97%	(347.94)
SUMMER - INDUSTRIAL					
small user	394	$ 755.0470	792.37	4.94%	37.32
summer average user	2960	$ 5,606.0700	5,919.62	5.59%	313.55
large user	5854	$ 11,077.1770	11,702.27	5.64%	625.09

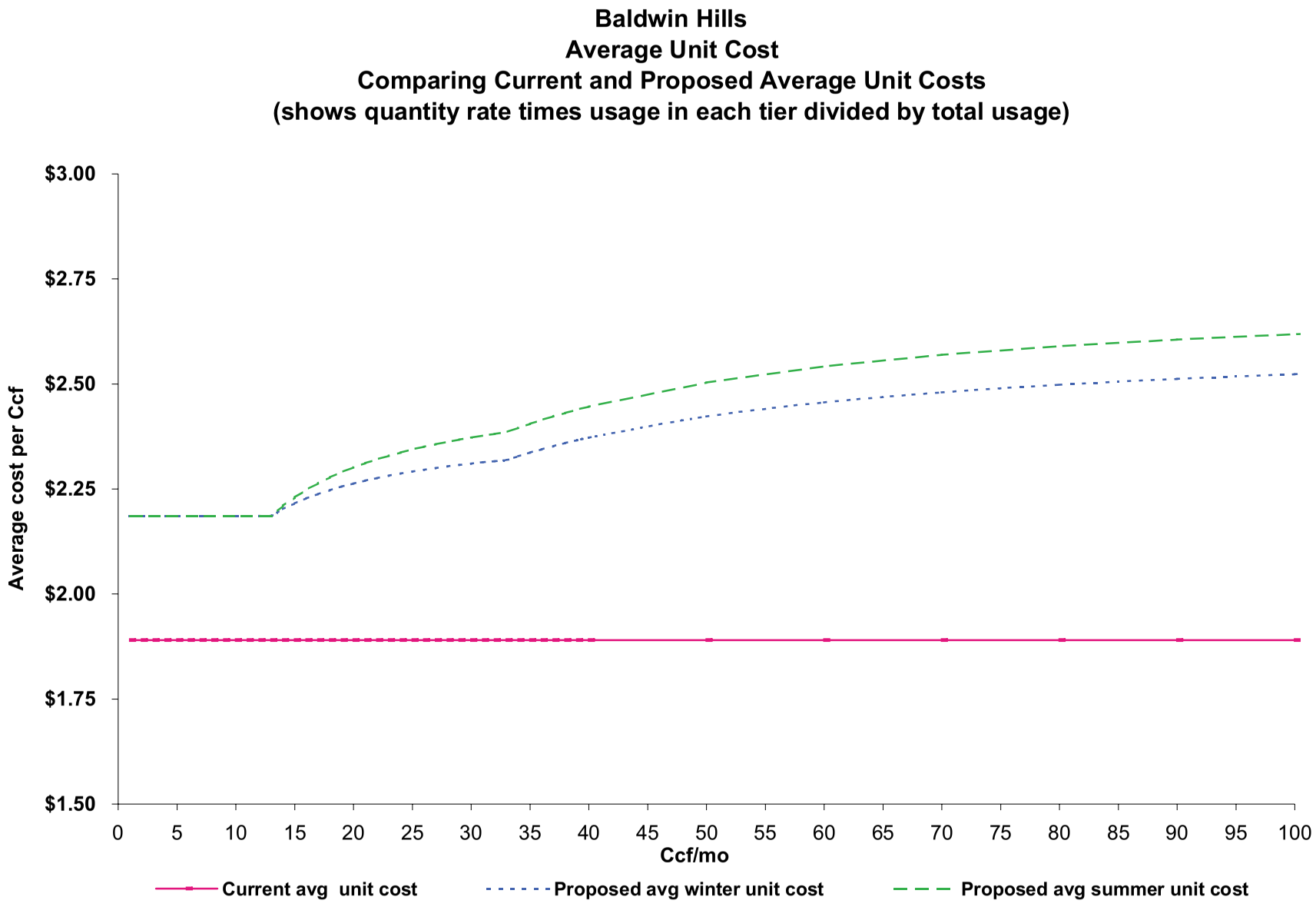
Company & District: **Cal Am, Los Angeles**
Service Area: **Baldwin Hills**

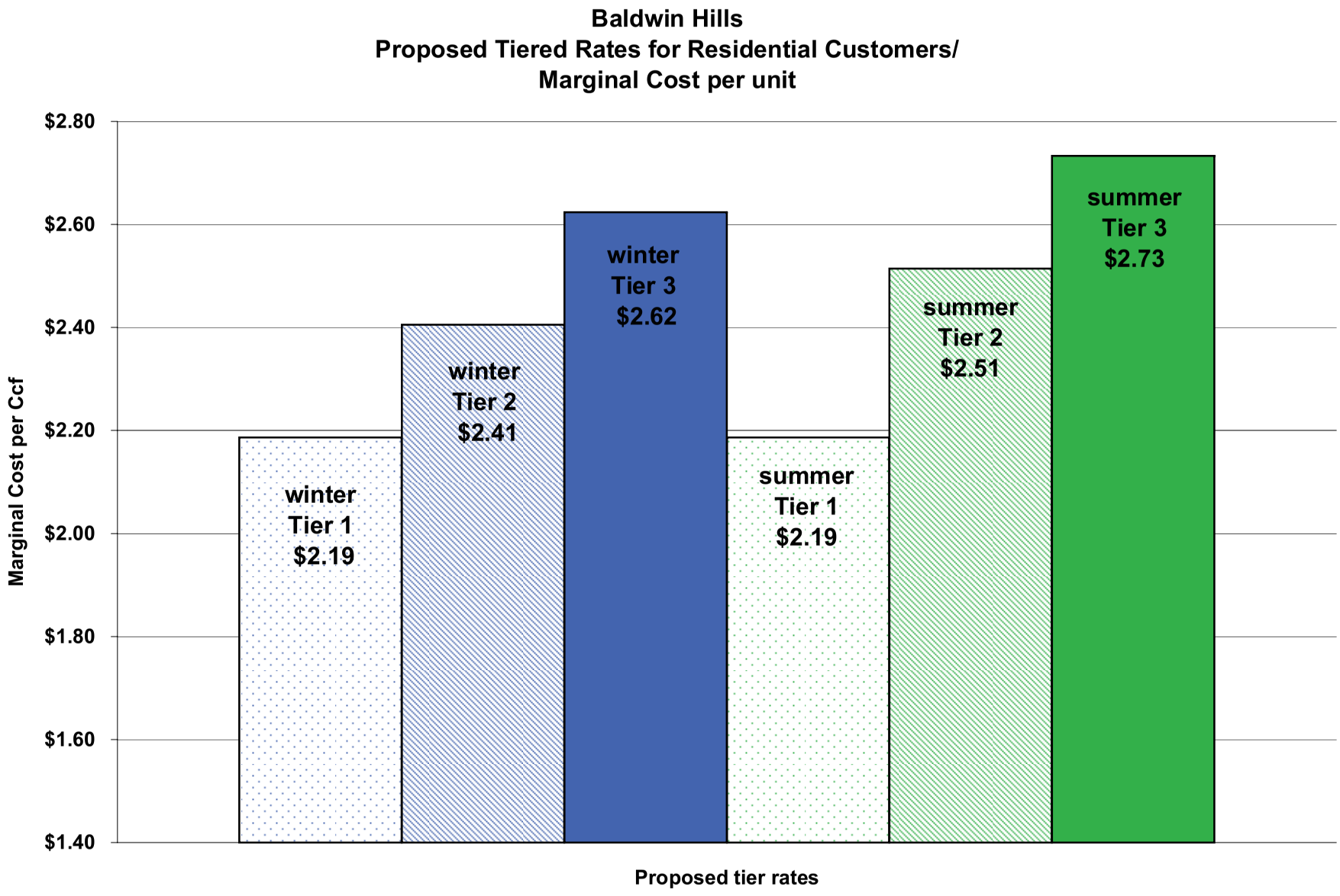
Water Revenue Adjustment Mechanism and Modified Cost Balancing Account
Example with 10% conservation

WRAM Revenues	**Adopted**	**Actual**	**Difference**	**Comments**
				The WRAM tracks quantity revenues for residential, commercial, industrial, public authority, pressure irrigation, and gravity irrigation customers
Sales (Ccf)	1,598,302	1,438,472	159,830	
Revenues				
Meter revenues	$ 612,888	$ 612,888	$ -	Actual revenue is based on adopted meter revenues and actual quantity revenues.
Quantity revenues	$ 3,632,807	$ 3,269,526	**$ 363,281**	Actual quantity revenues based on actual quantity revenues received, it would not be calculated using a formula. Difference column tracks over or under collected quantity revenues. Positive difference is undercollection by Cal Am. Negative difference is overcollection by Cal Am.
Average quantity rate	$ 2.2729			
Variable cost component	$ 1.2345			
Fixed Cost component	$ 1.0384			
MCBA Costs (Purchased power, purchased water and pump tax)				The MCBA tracks purchased power, purchased water and pump tax for all customer classes
Average cost / Ccf of water produced for purchased water, purchased power, and pump tax	$0.96	$0.90	$0.06	This adopted average cost is adopted average cost for purchased power, and purchased water. Actual average cost based on actual average cost incurred by Cal Am. Here, the value is a hypothetical actual average cost/ccf water produced for purchased water, power, and pump tax for illustrative purposes.
Total MCBA variable costs	$1,136,848	$955,638	**$181,210**	The adopted cost for these variable costs was greater than what Cal Am actually incurred. It represents an overcollection by the utility. Positive difference - overcollection of MCBA variable costs by Cal Am Negative difference - undercollection of MCBA variable costs by Cal Am
Net Balance of WRAM and MCBA				
WRAM Balance	$363,281			
MCBA Balance -	$181,210			
Net	$182,070			Net over or undercollection in the WRAM/MCBA. Positive balance - undercollection; ratepayers pay surcharge on $/Ccf basis Negative balance - overcollection; ratepayers receive surcredit on $/Ccf basis

Baldwin Hills
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf usage
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)




Baldwin Hills
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
Average cost per Ccf
$3.00
$2.75
$2.50
$2.25
$2.00
$1.75
$1.50
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


Baldwin Hills
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
$2.80
$2.60
$2.40
$2.20
$2.00
$1.80
$1.60
$1.40
Marginal Cost per Ccf
winter
Tier 1
$2.19
winter
Tier 2
$2.41
winter
Tier 3
$2.62
summer
Tier 1
$2.19
summer
Tier 2
$2.51
summer
Tier 3
$2.73
Proposed tier rates

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
Proposal:		

a) IBR quantity design (3 tier) with seasonal adder for residential
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e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (D.07-11-014	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Gravity Irrigation**	**Pressure Irrigation**	**Private Fire Protection Service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030**
										5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protectio
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 2.41	$ 2.41	$ 31.65	$ 10.19		Service base is 4"
Tariff - Quantity charge per ccf	$ 1.0157	$ 1.0157	$ 1.0157	$ 1.0157	$ 0.6243	$ 0.8085	$ -	$ 1.0157		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	8,155	2,782	861	92	66	553	266	90	12,864	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities - Sales in ccf	1,561,624 Ccf	805,981 Ccf	201,105 Ccf	23,626 Ccf	7,964 Ccf	192,346 Ccf	0 Ccf	2,123 Ccf	2,794,769 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 996,964	$ 339,822	$ 105,184	$ 11,178	$ 1,892	$ 15,847	$ 71,424	$ 10,994	$ 1,553,307	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity Charge	$ 1,586,141	$ 818,635	$ 204,262	$ 23,997	$ 4,972	$ 155,508	$ -	$ 2,156	$ 2,795,672	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 2,583,106	$ 1,158,457	$ 309,446	$ 35,175	$ 6,864	$ 171,355	$ 71,424	$ 13,151	$ 4,348,979	
Adopted Quantities - Supply Mix									3,103,650 Ccf	
Purchase Water (ccf)									445,183 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)									2,658,467 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate									9.96%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Current Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%								**Overall**	**Comments**
Meter Charge % revenue	38.60%	29.33%	33.99%	31.78%	27.57%	9.25%	N/A	N/A	35.72%	
Quantity Charge % revenue	61.40%	70.67%	66.01%	68.22%	72.43%	90.75%			64.28%	Residential, public authority, industrial and overall do not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			100.00%	Overall calculation also does not meet BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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Adopted Tariff						**Adopted Connections (D.07-11-014)**							
Meter Charge % revenue	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**Measured Irrigation Service**	**GPM Ratio (ratio of flow by connection diameter)**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Gravity Irrigation**	**Pressure Irrigation**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		$ 2.41	1.00	5,865	155	18	0				
3/4" (no 3/4" meters in this district)	$ 10.19	$ 10.19		$ 3.59	1.00	0	0	0	0				
1"	$ 25.46	$ 25.46		$ 5.98	2.50	382	131	18	5			7	
1.5"	$ 50.90	$ 50.90		$ 11.94	5.00	90	140	16	3			2	
2"	$ 81.44	$ 81.44		$ 19.12	8.00	105	168	61	8		2	40	
3"	$ 152.70	$ 152.70		$ 35.86	15.00	3	7	7	0			12	6
4"	$ 254.50	$ 254.50	$ 31.65	$ 59.73	25.00	0	2	5	0	25	2	1	
6"	$ 509.00	$ 509.00	$ 47.48		50.00	0	2	0	0	68			
8"	$ 814.40	$ 814.40	$ 63.31		80.00	0	0	0	0	30			
10"	$ 1,170.70	$ 1,170.70	$ 79.13		115.00	0	0	0	0	2			
Quantity Charges						**6,445**	**605**	**125**	**16**	**125**	**4**	**62**	**6**
Any usage level $/Ccf	**$ 1.02**	**$ 1.02**											

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
Proposal:		

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Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Gravity Irrigation**	**Pressure Irrigation**	**Private Fire Protection Service**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 499,086	$ 170,228	$ 52,693	$ 5,600	$ 946	$ 7,925	$ -	$ -	$ 736,478	
Equivalent Units	8,155	2,782	861	92	66	553	266	90	12,864	Meter connections expressed as number of standard 5/8" meters
Meter Charge rev	$ 499,086	$ 170,228	$ 52,693	$ 5,600	$ 946	$ 7,925	$ 71,424	$ 10,994	$ 818,896	
Meter charge $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 1.20	$ 1.20	$ 22.40	$ 10.20	$ 5.30	$/mo per 5/8" equivalent unit
Adopted Sales ccf	1,561,624 Ccf	805,981 Ccf	201,105 Ccf	23,626 Ccf	7,964 Ccf	192,346 Ccf	0 Ccf	2,123 Ccf	2,367,605 Ccf	
New quantity charge revenue target	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083	
New SQR	$ 1.335	$ 1.226	$ 1.277	$ 1.252	$ 0.743	$ 0.850	N/A	$ 1.016	$ 1.263	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test									**Overall**	**Comments**
Meter Charge % revenue	19.32%	14.69%	17.03%	15.92%	13.78%	4.62%	N/A	N/A	18.83%	
Quantity Charge % revenue	80.68%	85.31%	82.97%	84.08%	86.22%	95.38%			81.17%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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Rate Summary		**Residential**		**Commercial**		**Public Authority**		**Industrial**		**Gravity Irrigation**		**Pressure Irrigation**		**Private Fire Protection Service**		**Other**		**Total**
Total Rev Req	$	2,583,106	$	1,158,457	$	309,446	$	35,175	$	6,864	$	171,355	$	71,424	$	13,151	**$**	**4,348,979**
Meter charge $/EU/mo	$	5.10	$	5.10	$	5.10	$	5.10	$	1.20	$	1.20		N/A	$	10.20	$	5.30
Quantity charge if SQR	$	1.335	$	1.226	$	1.277	$	1.252	$	0.743	$	0.850		N/A	$	1.016	$	1.263

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail								**Adopted Connections (D.07-11-014)**							
Size		**Residential**		**Commercial, Public Authority, Industrial, Other**		**Private Fire Protection Service**		**Measured Irrigation Service**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Gravity Irrigation**	**Pressure Irrigation**	**Other**
5/8" x 3/4"	$	5.10	$	5.10			$	2.39	1.00	5,865	155	18	0				
3/4" (no 3/4" meters in this district)	$	5.10	$	5.10			$	2.39	1.00	0	0	0	0				
1"	$	12.75	$	12.75			$	5.98	2.50	382	131	18	5			7	
1.5"	$	25.50	$	25.50			$	11.94	5.00	90	140	16	3			2	
2"	$	40.80	$	40.80			$	19.12	8.00	105	168	61	8		2	40	
3"	$	76.50	$	76.50			$	35.88	15.00	3	7	7	0			12	6
4"	$	127.50	$	127.50	$	31.66	$	59.73	25.00	0	2	5	0	25	2	1	
6"	$	255.00	$	255.00	$	47.48			50.00	0	2	0	0	68			
8"	$	408.00	$	408.00	$	63.31			80.00	0	0	0	0	30			
10"	$	586.50	$	586.50	$	79.13			115.00	0	0	0	0	2			
										6,445	**605**	**125**	**16**	**125**	**4**	**62**	**6**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
Proposal:		

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Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

RESIDENTIAL SQR	**$**	**1.3345**
New Quantity Revenue Target	**$**	**2,084,020**

Residential Rate Design	Top of Tier (monthly)	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 12	-	0.9215	$ 1.2298	7.16%	23.51%	16.94%	41.96%	367,184 Ccf	$ 451,547	21.67%
Tier 2 winter	12 to 38	10%	1.0136	$ 1.3527	24.12%	12.49%	22.73%		195,018 Ccf	$ 263,808	12.66%
Tier 3 winter	>38	20%	1.1058	$ 1.4757	10.68%	5.96%	2.28%		93,073 Ccf	$ 137,349	6.59%
Tier 1 summer	no change	-	0.9215	$ 1.2298	4.57%	25.40%	15.26%	58.04%	396,677 Ccf	$ 487,816	23.41%
Tier 2 summer	no change	15%	1.0597	$ 1.4142	32.78%	20.81%	37.04%		324,983 Ccf	$ 459,597	22.05%
Tier 3 summer	no change	25%	1.1519	$ 1.5372	20.69%	11.83%	5.74%		184,689 Ccf	$ 283,903	13.62%
Top of Tier - Break points	12				100.00%	100.00%			1,561,624 Ccf	$ 2,084,020	100.00%
	38										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales) as % of New Res Q revenue target **0.00%**

COMMERCIAL SQR	**$**	**1.2261**
New COMMERCIAL Q Revenue Target	**$**	**988,229**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9479	$ 1.1622	45.00%	362,691 Ccf	$ 421,520
All COMMERCIAL Meters (summer)	all	1.0427	$ 1.2784	55.00%	443,290 Ccf	$ 566,710
TOTALS	**% increase in quantity rate**		**25.87%**	100.00%	805,981 Ccf	$ 988,229

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR	**$**	**1.2767**
New PUBLIC AUTHORITY Q Revenue Target	**$**	**256,753**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9390	$ 1.1988	35.00%	70,387 Ccf	$ 84,379
All PUBLIC AUTHORITY Meters (summer)	all	1.0329	$ 1.3187	65.00%	130,718 Ccf	$ 172,374
TOTALS	**% increase in quantity rate**		**29.83%**	100.00%	201,105 Ccf	$ 256,753

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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INDUSTRIAL SQR	**$**	**1.2518**							
New INDUSTRIAL Q Revenue Target	**$**	**29,575**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All INDUSTRIAL Meters (winter)	all	0.9533	$	1.1933	51.00%	12,049 Ccf	$	14,379	
All INDUSTRIAL Meters (summer)	all	1.0486	$	1.3127	49.00%	11,577 Ccf	$	15,196	
TOTALS	**% increase in quantity rate**			**29.24%**	100.00%	23,626 Ccf	$	29,575	
Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales) as % of New INDUSTRIAL Q revenue target								**0.00%**	

GRAVITY IRRIGATION SQR	**$**	**0.7431**							
New Irrigation Q Revenue Target	**$**	**5,918**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All GRAVITY IRRIGATION Meters (winter)	all	0.9488	$	0.7050	46.00%	3,663 Ccf	$	2,583	
All GRAVITY IRRIGATION Meters (summer)	all	1.0436	$	0.7756	54.00%	4,301 Ccf	$	3,335	
TOTALS	**% increase in quantity rate**			**24.23%**	100.00%	7,964 Ccf	$	5,918	
Revenue Neutrality Check (New Gravity Irrigation Q revenue target - Total (Gravity Irrigation Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New Gravity Irrigation Q revenue target - Total (Gravity Irrigation Q sales) as % of Gravity Irrigation Res Q revenue target								**0.00%**	

PRESSURE IRRIGATION SQR	**$**	**0.8497**							
New Irrigation Q Revenue Target	**$**	**163,430**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All PRESSURE IRRIGATION Meters (winter)	all	0.9390	$	0.7978	35.00%	67,321 Ccf	$	53,709	
All PRESSURE IRRIGATION Meters (summer)	all	1.0329	$	0.8776	65.00%	125,025 Ccf	$	109,721	
TOTALS	**% increase in quantity rate**			**8.55%**	100.00%	192,346 Ccf	$	163,430	
Revenue Neutrality Check (New Pressure Irrigation Q revenue target - Total (Pressure Irrigation Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New Pressure Irrigation Q revenue target - Total (Pressure Irrigation Q sales) as % of Pressure Irrigation Res Q revenue target								**0.00%**	

Rate Design and Revenue Check Spreadsheet

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Service Area	**Duarte**	
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Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**GRAVITY IRRIGATION**	**PRESSURE IRRIGATION**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixed cos									
to reduce meter charge)	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083
Total Quantity Revenue	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083
Revenue Neutrality Check	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Charge Revenue	$ 499,086.00	$ 170,227.80	$ 52,693.20	$ 5,599.80	$ 946.20	$ 7,924.98	$ 71,424.00	$ 10,994.40	**$ 818,896.38**
Total Revenue	$ 2,583,105.94	$ 1,158,457.26	$ 309,446.43	$ 35,175.17	$ 6,864.40	$ 171,354.97	$ 71,424.00	$ 13,150.73	**$ 4,348,978.91**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.0157
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.2298
	Block 2 (winter)	$ 1.3527
	Block 3 (winter)	$ 1.4757
	Block 1 (summer)	$ 1.2298
	Block 2 (summer)	$ 1.4142
	Block 3 (summer)	$ 1.5372
Tier 1 Block	12	ccf
Tier 2 Block	38	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

small user (winter)		consumption		10 ccf/month
Current bill	$ 20.35			
block	rate	consumption	bill	
0 to 12	$ 1.2298	10	$ 12.30	
12 to 38	$ 1.3527	0	$ -	
>38	$ 1.4757	0	$ -	
		total bill	$ 17.40	
		Percent change in bill		**-14.50%**
		$ change in bill		**$ (2.95)**

annual avg user (winter)		consumption		21 ccf/month
Current bill	$ 31.52		$ 40.00	
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	9	$ 12.17	
>38	$ 1.4757	0	$ -	
		total bill	$ 32.03	
		Percent change in bill		**1.62%**
		$ change in bill		**$ 0.51**

small user (summer)		consumption		10 ccf/month
Current bill	$ 20.35			
block	rate	consumption	bill	
0 to 12	$ 1.2298	10	$ 12.30	
12 to 38	$ 1.4142	0	$ -	
>38	$ 1.5372	0	$ -	
		total bill	$ 17.40	
		Percent change in bill		**-14.50%**
		$ change in bill		**$ (2.95)**

annual avg user (summer)		consumption		21 ccf/month
Current bill	$ 31.52		$ 40.00	
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	9	$ 12.73	
>38	$ 1.5372	0	$ -	
		total bill	$ 32.59	
		Percent change in bill		**3.38%**
		$ change in bill		**$ 1.07**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.0157
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.2298
	Block 2 (winter)	$ 1.3527
	Block 3 (winter)	$ 1.4757
	Block 1 (summer)	$ 1.2298
	Block 2 (summer)	$ 1.4142
	Block 3 (summer)	$ 1.5372
Tier 1 Block	12	ccf
Tier 2 Block	38	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

average winter user		consumption	18 ccf/month	
Current bill	$ 28.47			
block		consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	6	$ 8.12	
>38	$ 1.4757	0	$ -	
		total bill	$ 27.97	
		Percent change in bill		**-1.75%**
		$ change in bill	**$**	**(0.50)**

average summer user		consumption	30 ccf/month	
Current bill	$ 40.66			
block		consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	18	$ 25.46	
>38	$ 1.5372	0	$ -	
		total bill	$ 45.31	
		Percent change in bill		**11.44%**
		$ change in bill	**$**	**4.65**

large user (winter)		consumption	33 ccf/month	
Current bill	$ 43.71			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	21	$ 28.41	
>38	$ 1.4757	0	$ -	
		total bill	$ 48.26	
		Percent change in bill		**10.42%**
		$ change in bill	**$**	**4.56**

largest user (winter)		consumption	706 ccf/month	
Current bill	$ 727.27			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	26	$ 35.17	
>38	$ 1.4757	668	$ 985.77	
		total bill	$ 1,040.80	
		Percent change in bill		**43.11%**
		$ change in bill	**$**	**313.53**

large user (summer)		consumption	33 ccf/month	
Current bill	$ 43.71			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	21	$ 29.70	
>38	$ 1.5372	0	$ -	
		total bill	$ 49.56	
		Percent change in bill		**13.38%**
		$ change in bill	**$**	**5.85**

largest user (summer)		consumption	1159 ccf/month	
Current bill	$ 1,187.39			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	26	$ 36.77	
>38	$ 1.5372	1121	$ 1,723.20	
		total bill	$ 1,779.82	
		Percent change in bill		**49.89%**
		$ change in bill	**$**	**592.44**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	12	tier 2	38

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

WINTER

Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Winter Rates				(3)	(4)	Change in Winter Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.0157	Total current bill	Current avg unit cost	Meter Charge	winter Tier 1 $1.2298	winter Tier 2 $1.3527	winter Tier 3 $1.4757	Proposed winter total bill	Proposed avg winter unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.0000	-5.09	-49.95%
1	10.19	1.02	11.21	1.02	5.10	1.23			6.33	1.2298	-4.88	-43.51%
2	10.19	2.03	12.22	1.02	5.10	2.46			7.56	1.2298	-4.66	-38.15%
3	10.19	3.05	13.24	1.02	5.10	3.69			8.79	1.2298	-4.45	-33.60%
4	10.19	4.06	14.25	1.02	5.10	4.92			10.02	1.2298	-4.23	-29.70%
5	10.19	5.08	15.27	1.02	5.10	6.15			11.25	1.2298	-4.02	-26.33%
6	10.19	6.09	16.28	1.02	5.10	7.38			12.48	1.2298	-3.81	-23.37%
7	10.19	7.11	17.30	1.02	5.10	8.61			13.71	1.2298	-3.59	-20.76%
8	10.19	8.13	18.32	1.02	5.10	9.84			14.94	1.2298	-3.38	-18.44%
9	10.19	9.14	19.33	1.02	5.10	11.07			16.17	1.2298	-3.16	-16.36%
10	10.19	10.16	20.35	1.02	5.10	12.30			17.40	1.2298	-2.95	-14.50%
11	10.19	11.17	21.36	1.02	5.10	13.53			18.63	1.2298	-2.74	-12.80%
12	10.19	12.19	22.38	1.02	5.10	14.76			19.86	1.2298	-2.52	-11.27%
13	10.19	13.20	23.39	1.02	5.10	14.76	1.35		21.21	1.2392	-2.18	-9.34%
14	10.19	14.22	24.41	1.02	5.10	14.76	2.71		22.56	1.2473	-1.85	-7.57%
15	10.19	15.24	25.43	1.02	5.10	14.76	4.06		23.92	1.2544	-1.51	-5.94%
16	10.19	16.25	26.44	1.02	5.10	14.76	5.41		25.27	1.2605	-1.17	-4.44%
17	10.19	17.27	27.46	1.02	5.10	14.76	6.76		26.62	1.2659	-0.84	-3.05%
18	10.19	18.28	28.47	1.02	5.10	14.76	8.12		27.97	1.2707	-0.50	-1.75%
19	10.19	19.30	29.49	1.02	5.10	14.76	9.47		29.33	1.2751	-0.16	-0.55%
20	10.19	20.31	30.50	1.02	5.10	14.76	10.82		30.68	1.2789	0.17	0.57%
21	10.19	21.33	31.52	1.02	5.10	14.76	12.17		32.03	1.2825	0.51	1.62%
22	10.19	22.35	32.54	1.02	5.10	14.76	13.53		33.38	1.2857	0.85	2.61%
23	10.19	23.36	33.55	1.02	5.10	14.76	14.88		34.74	1.2886	1.19	3.54%
24	10.19	24.38	34.57	1.02	5.10	14.76	16.23		36.09	1.2912	1.52	4.41%
25	10.19	25.39	35.58	1.02	5.10	14.76	17.59		37.44	1.2937	1.86	5.23%
26	10.19	26.41	36.60	1.02	5.10	14.76	18.94		38.80	1.2960	2.20	6.00%
27	10.19	27.42	37.61	1.02	5.10	14.76	20.29		40.15	1.2981	2.53	6.74%
28	10.19	28.44	38.63	1.02	5.10	14.76	21.64		41.50	1.3000	2.87	7.43%
29	10.19	29.46	39.65	1.02	5.10	14.76	23.00		42.85	1.3018	3.21	8.09%
30	10.19	30.47	40.66	1.02	5.10	14.76	24.35		44.21	1.3035	3.55	8.72%
31	10.19	31.49	41.68	1.02	5.10	14.76	25.70		45.56	1.3051	3.88	9.32%
32	10.19	32.50	42.69	1.02	5.10	14.76	27.05		46.91	1.3066	4.22	9.88%
33	10.19	33.52	43.71	1.02	5.10	14.76	28.41		48.26	1.3080	4.56	10.42%
34	10.19	34.53	44.72	1.02	5.10	14.76	29.76		49.62	1.3093	4.89	10.94%
35	10.19	35.55	45.74	1.02	5.10	14.76	31.11		50.97	1.3106	5.23	11.44%
36	10.19	36.57	46.76	1.02	5.10	14.76	32.47		52.32	1.3117	5.57	11.91%
37	10.19	37.58	47.77	1.02	5.10	14.76	33.82		53.68	1.3128	5.90	12.36%
38	10.19	38.60	48.79	1.02	5.10	14.76	35.17		55.03	1.3139	6.24	12.79%
39	10.19	39.61	49.80	1.02	5.10	14.76	35.17	1.48	56.50	1.3180	6.70	13.46%
40	10.19	40.63	50.82	1.02	5.10	14.76	35.17	2.95	57.98	1.3220	7.16	14.09%
50	10.19	50.79	60.98	1.02	5.10	14.76	35.17	17.71	72.74	1.3527	11.76	19.29%
60	10.19	60.94	71.13	1.02	5.10	14.76	35.17	32.47	87.49	1.3732	16.36	23.00%
70	10.19	71.10	81.29	1.02	5.10	14.76	35.17	47.22	102.25	1.3879	20.96	25.79%
80	10.19	81.26	91.45	1.02	5.10	14.76	35.17	61.98	117.01	1.3988	25.56	27.95%
90	10.19	91.41	101.60	1.02	5.10	14.76	35.17	76.74	131.76	1.4074	30.16	29.69%
100	10.19	101.57	111.76	1.02	5.10	14.76	35.17	91.49	146.52	1.4142	34.76	31.10%
110	10.19	111.73	121.92	1.02	5.10	14.76	35.17	106.25	161.28	1.4198	39.36	32.29%
120	10.19	121.88	132.07	1.02	5.10	14.76	35.17	121.01	176.04	1.4245	43.96	33.29%
130	10.19	132.04	142.23	1.02	5.10	14.76	35.17	135.77	190.79	1.4284	48.56	34.14%
140	10.19	142.20	152.39	1.02	5.10	14.76	35.17	150.52	205.55	1.4318	53.16	34.89%
150	10.19	152.36	162.55	1.02	5.10	14.76	35.17	165.28	220.31	1.4347	57.76	35.54%
160	10.19	162.51	172.70	1.02	5.10	14.76	35.17	180.04	235.06	1.4373	62.36	36.11%
170	10.19	172.67	182.86	1.02	5.10	14.76	35.17	194.79	249.82	1.4395	66.96	36.62%
180	10.19	182.83	193.02	1.02	5.10	14.76	35.17	209.55	264.58	1.4415	71.56	37.08%
190	10.19	192.98	203.17	1.02	5.10	14.76	35.17	224.31	279.34	1.4433	76.16	37.49%
200	10.19	203.14	213.33	1.02	5.10	14.76	35.17	239.06	294.09	1.4450	80.76	37.86%
300	10.19	304.71	314.90	1.02	5.10	14.76	35.17	386.64	441.66	1.4552	126.76	40.26%
400	10.19	406.28	416.47	1.02	5.10	14.76	35.17	534.21	589.23	1.4603	172.76	41.48%
500	10.19	507.85	518.04	1.02	5.10	14.76	35.17	681.78	736.81	1.4634	218.77	42.23%
600	10.19	609.42	619.61	1.02	5.10	14.76	35.17	829.35	884.38	1.4655	264.77	42.73%
700	10.19	710.99	721.18	1.02	5.10	14.76	35.17	976.92	1031.95	1.4669	310.77	43.09%
800	10.19	812.56	822.75	1.02	5.10	14.76	35.17	1,124.49	1179.52	1.4680	356.77	43.36%
900	10.19	914.13	924.32	1.02	5.10	14.76	35.17	1,272.06	1327.09	1.4689	402.77	43.57%
1000	10.19	1015.70	1025.89	1.02	5.10	14.76	35.17	1,419.63	1474.66	1.4696	448.77	43.74%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	12	tier 2	38

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

SUMMER

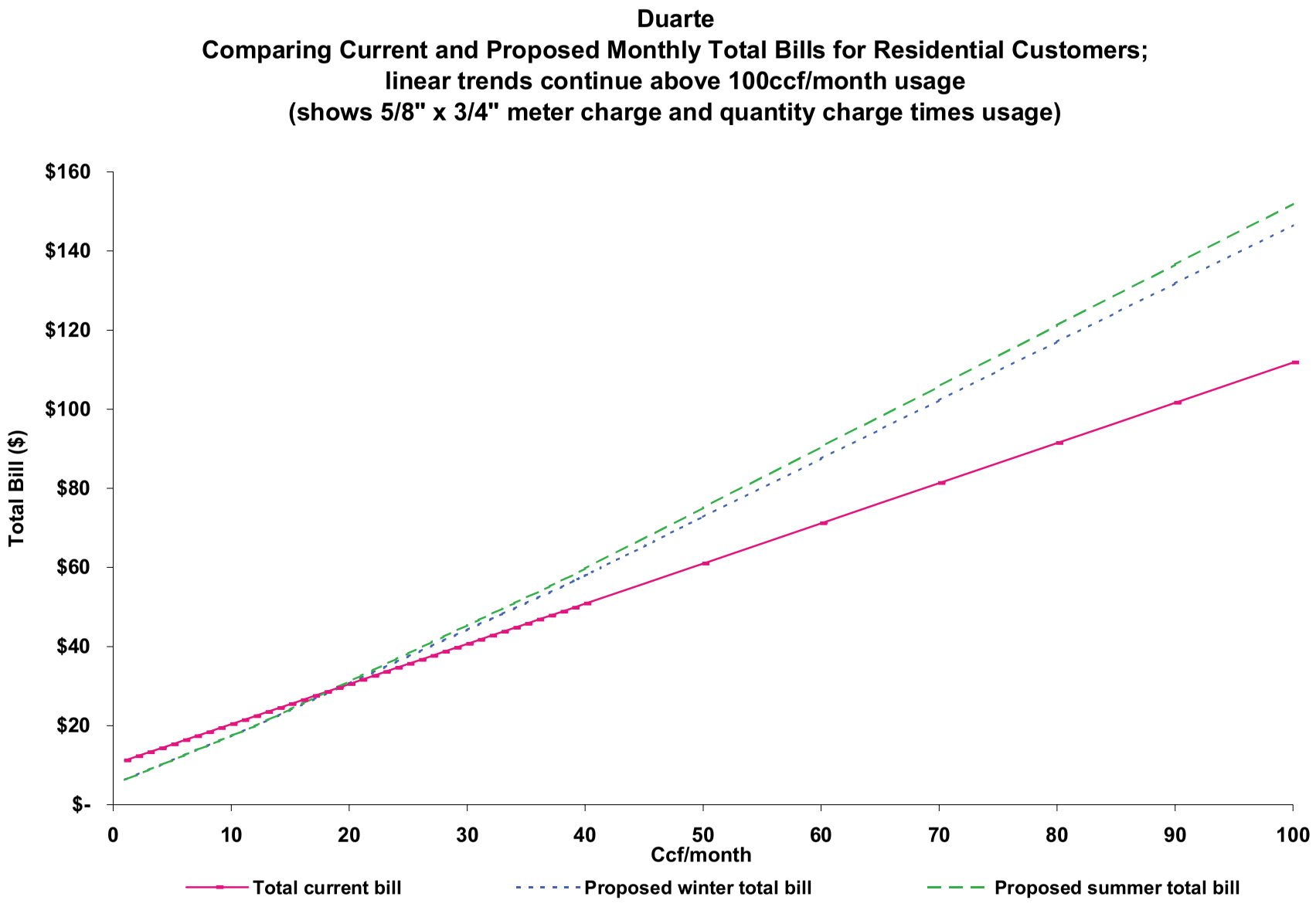
Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Summer Rates				(3)	(4)	Change in Summer Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.0157	Total current bill	Current avg unit cost	Meter Charge	summer Tier 1 $1.2298	summer Tier 2 $1.4142	summer Tier 3 $1.5372	Proposed summer total bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.02	11.21	1.02	5.10	1.23			6.33	1.23	-4.88	-43.51%
2	10.19	2.03	12.22	1.02	5.10	2.46			7.56	1.23	-4.66	-38.15%
3	10.19	3.05	13.24	1.02	5.10	3.69			8.79	1.23	-4.45	-33.60%
4	10.19	4.06	14.25	1.02	5.10	4.92			10.02	1.23	-4.23	-29.70%
5	10.19	5.08	15.27	1.02	5.10	6.15			11.25	1.23	-4.02	-26.33%
6	10.19	6.09	16.28	1.02	5.10	7.38			12.48	1.23	-3.81	-23.37%
7	10.19	7.11	17.30	1.02	5.10	8.61			13.71	1.23	-3.59	-20.76%
8	10.19	8.13	18.32	1.02	5.10	9.84			14.94	1.23	-3.38	-18.44%
9	10.19	9.14	19.33	1.02	5.10	11.07			16.17	1.23	-3.16	-16.36%
10	10.19	10.16	20.35	1.02	5.10	12.30			17.40	1.23	-2.95	-14.50%
11	10.19	11.17	21.36	1.02	5.10	13.53			18.63	1.23	-2.74	-12.80%
12	10.19	12.19	22.38	1.02	5.10	14.76			19.86	1.23	-2.52	-11.27%
13	10.19	13.20	23.39	1.02	5.10	14.76	1.41		21.27	1.24	-2.12	-9.07%
14	10.19	14.22	24.41	1.02	5.10	14.76	2.83		22.69	1.26	-1.72	-7.06%
15	10.19	15.24	25.43	1.02	5.10	14.76	4.24		24.10	1.27	-1.33	-5.21%
16	10.19	16.25	26.44	1.02	5.10	14.76	5.66		25.51	1.28	-0.93	-3.51%
17	10.19	17.27	27.46	1.02	5.10	14.76	7.07		26.93	1.28	-0.53	-1.93%
18	10.19	18.28	28.47	1.02	5.10	14.76	8.49		28.34	1.29	-0.13	-0.46%
19	10.19	19.30	29.49	1.02	5.10	14.76	9.90		29.76	1.30	0.27	0.91%
20	10.19	20.31	30.50	1.02	5.10	14.76	11.31		31.17	1.30	0.67	2.19%
21	10.19	21.33	31.52	1.02	5.10	14.76	12.73		32.59	1.31	1.07	3.38%
22	10.19	22.35	32.54	1.02	5.10	14.76	14.14		34.00	1.31	1.46	4.50%
23	10.19	23.36	33.55	1.02	5.10	14.76	15.56		35.41	1.32	1.86	5.55%
24	10.19	24.38	34.57	1.02	5.10	14.76	16.97		36.83	1.32	2.26	6.54%
25	10.19	25.39	35.58	1.02	5.10	14.76	18.38		38.24	1.33	2.66	7.47%
26	10.19	26.41	36.60	1.02	5.10	14.76	19.80		39.66	1.33	3.06	8.36%
27	10.19	27.42	37.61	1.02	5.10	14.76	21.21		41.07	1.33	3.46	9.19%
28	10.19	28.44	38.63	1.02	5.10	14.76	22.63		42.48	1.34	3.86	9.98%
29	10.19	29.46	39.65	1.02	5.10	14.76	24.04		43.90	1.34	4.25	10.73%
30	10.19	30.47	40.66	1.02	5.10	14.76	25.46		45.31	1.34	4.65	11.44%
31	10.19	31.49	41.68	1.02	5.10	14.76	26.87		46.73	1.34	5.05	12.12%
32	10.19	32.50	42.69	1.02	5.10	14.76	28.28		48.14	1.35	5.45	12.76%
33	10.19	33.52	43.71	1.02	5.10	14.76	29.70		49.56	1.35	5.85	13.38%
34	10.19	34.53	44.72	1.02	5.10	14.76	31.11		50.97	1.35	6.25	13.97%
35	10.19	35.55	45.74	1.02	5.10	14.76	32.53		52.38	1.35	6.64	14.53%
36	10.19	36.57	46.76	1.02	5.10	14.76	33.94		53.80	1.35	7.04	15.06%
37	10.19	37.58	47.77	1.02	5.10	14.76	35.36		55.21	1.35	7.44	15.58%
38	10.19	38.60	48.79	1.02	5.10	14.76	36.77		56.63	1.36	7.84	16.07%
39	10.19	39.61	49.80	1.02	5.10	14.76	36.77	1.54	58.16	1.36	8.36	16.79%
40	10.19	40.63	50.82	1.02	5.10	14.76	36.77	3.07	59.70	1.37	8.88	17.48%
50	10.19	50.79	60.98	1.02	5.10	14.76	36.77	18.45	75.07	1.40	14.10	23.12%
60	10.19	60.94	71.13	1.02	5.10	14.76	36.77	33.82	90.45	1.42	19.31	27.15%
70	10.19	71.10	81.29	1.02	5.10	14.76	36.77	49.19	105.82	1.44	24.53	30.17%
80	10.19	81.26	91.45	1.02	5.10	14.76	36.77	64.56	121.19	1.45	29.74	32.53%
90	10.19	91.41	101.60	1.02	5.10	14.76	36.77	79.93	136.56	1.46	34.96	34.41%
100	10.19	101.57	111.76	1.02	5.10	14.76	36.77	95.31	151.93	1.47	40.17	35.95%
110	10.19	111.73	121.92	1.02	5.10	14.76	36.77	110.68	167.30	1.47	45.39	37.23%
120	10.19	121.88	132.07	1.02	5.10	14.76	36.77	126.05	182.68	1.48	50.60	38.31%
130	10.19	132.04	142.23	1.02	5.10	14.76	36.77	141.42	198.05	1.48	55.82	39.24%
140	10.19	142.20	152.39	1.02	5.10	14.76	36.77	156.79	213.42	1.49	61.03	40.05%
150	10.19	152.36	162.55	1.02	5.10	14.76	36.77	172.17	228.79	1.49	66.25	40.76%
160	10.19	162.51	172.70	1.02	5.10	14.76	36.77	187.54	244.16	1.49	71.46	41.38%
170	10.19	172.67	182.86	1.02	5.10	14.76	36.77	202.91	259.54	1.50	76.68	41.93%
180	10.19	182.83	193.02	1.02	5.10	14.76	36.77	218.28	274.91	1.50	81.89	42.43%
190	10.19	192.98	203.17	1.02	5.10	14.76	36.77	233.65	290.28	1.50	87.11	42.87%
200	10.19	203.14	213.33	1.02	5.10	14.76	36.77	249.03	305.65	1.50	92.32	43.28%
300	10.19	304.71	314.90	1.02	5.10	14.76	36.77	402.75	459.37	1.51	144.47	45.88%
400	10.19	406.28	416.47	1.02	5.10	14.76	36.77	556.46	613.09	1.52	196.62	47.21%
500	10.19	507.85	518.04	1.02	5.10	14.76	36.77	710.18	766.81	1.52	248.77	48.02%
600	10.19	609.42	619.61	1.02	5.10	14.76	36.77	863.90	920.53	1.53	300.92	48.57%
700	10.19	710.99	721.18	1.02	5.10	14.76	36.77	1,017.62	1074.25	1.53	353.07	48.96%
800	10.19	812.56	822.75	1.02	5.10	14.76	36.77	1,171.34	1227.97	1.53	405.22	49.25%
900	10.19	914.13	924.32	1.02	5.10	14.76	36.77	1,325.06	1381.69	1.53	457.37	49.48%
1000	10.19	1015.70	1025.89	1.02	5.10	14.76	36.77	1,478.78	1535.41	1.53	509.52	49.67%

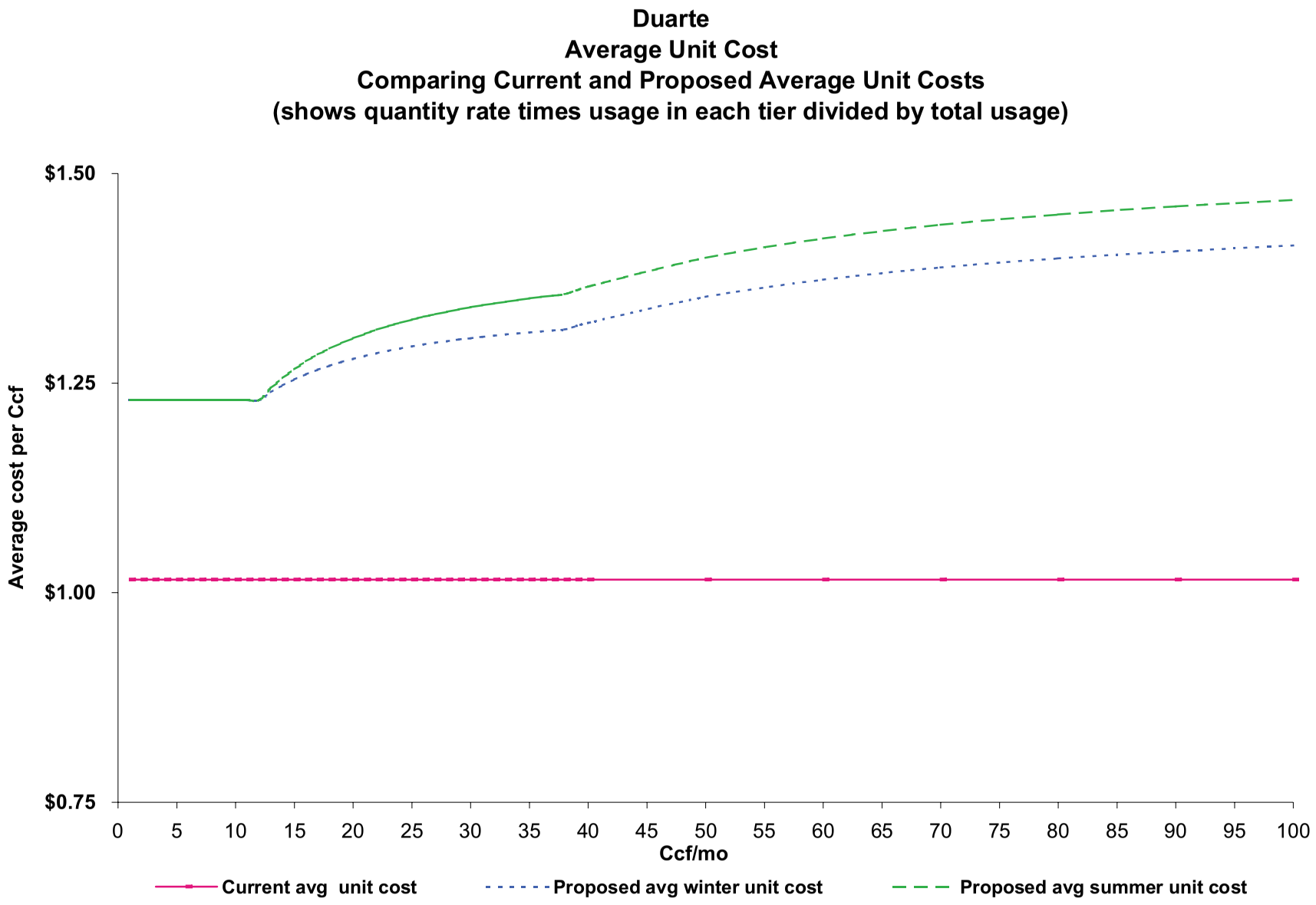
Non-residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

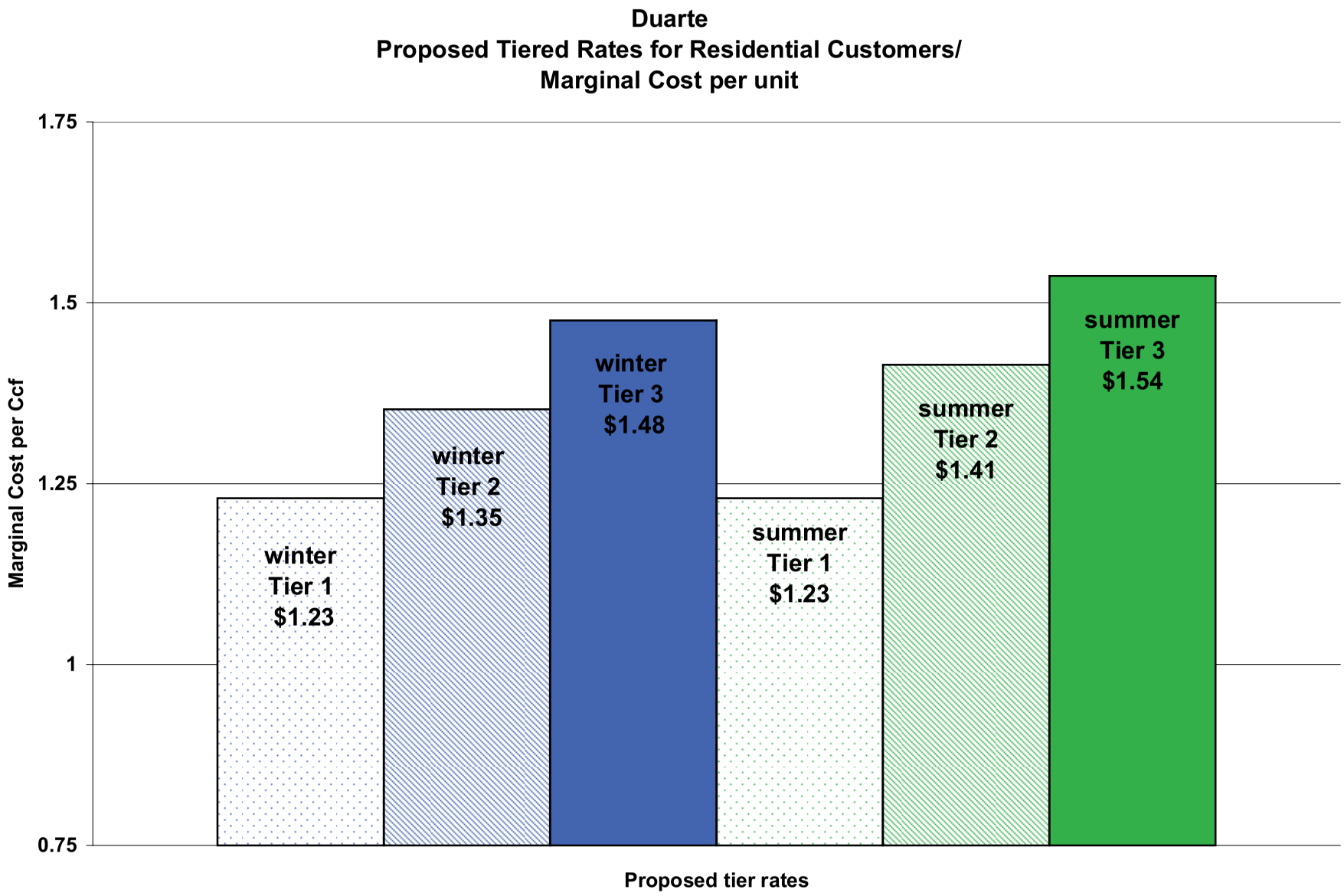
	Meter Charge	Quantity Charge
Current	$ 10.19	$ 1.0157
Proposed		
Commercial winter	$ 5.10	$ 1.1622
Commercial summer	$ 5.10	$ 1.2784
Public Authority winter	$ 5.10	$ 1.1988
Public Authority summer	$ 5.10	$ 1.3187
Industrial winter	$ 5.10	$ 1.1933
Industrial summer	$ 5.10	$ 1.3127
Current	$ 2.41	$ 0.8085
Proposed		
Pressure Irrigation winter	$ 1.20	$ 0.7978
Pressure Irrigation summer	$ 1.20	$ 0.8776
Current	$ 2.41	$ 0.6243
Proposed		
Gravity Irrigation winter	$ 1.20	$ 0.7050
Gravity Irrigation summer	$ 1.20	$ 0.7756

"small user" represents 25th percentile user
"large user" represents 90th percentile user

Season and User	Consumption (Ccf)	Total current bill	Total proposed bil	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	11	$21.36	17.88	-16.28%	(3.48)
winter average user	100	$111.76	121.32	8.55%	9.56
large user	202	$215.36	239.86	11.38%	24.50
SUMMER - COMMERCIAL					
small user	14	$24.41	23.00	-5.78%	(1.41)
summer average user	93	$104.65	123.99	18.48%	19.34
large user	93	$104.65	123.99	18.48%	19.34
WINTER - PUBLIC AUTHORITY					
small user	10	$20.35	17.09	-16.02%	(3.26)
winter average user	97	$108.71	121.38	11.65%	12.67
large user	205	$218.41	250.85	14.85%	32.44
SUMMER - PUBLIC AUTHORITY					
small user	12	$22.38	20.92	-6.50%	(1.45)
summer average user	176	$188.95	237.19	25.53%	48.23
large user	430	$446.94	572.13	28.01%	125.19
WINTER - INDUSTRIAL					
small user	14	$24.41	21.81	-10.66%	(2.60)
winter average user	110	$121.92	136.37	11.85%	14.45
large user	228	$241.77	277.18	14.65%	35.41
SUMMER - INDUSTRIAL					
small user	18	$28.47	28.73	0.90%	0.26
summer average user	106	$117.85	144.24	22.39%	26.39
large user	233	$246.85	310.95	25.97%	64.11
WINTER - PRESSURE IRRIGATION					
small user	48	$41.22	39.49	-4.18%	(1.72)
winter average user	164	$135.00	132.04	-2.19%	(2.96)
large user	186	$152.79	149.59	-2.09%	(3.19)
SUMMER - PRESSURE IRRIGATION					
small user	127	$105.09	112.65	7.20%	7.57
summer average user	315	$257.08	277.64	8.00%	20.56
large user	635	$515.79	558.47	8.27%	42.67
WINTER - GRAVITY IRRIGATION					
small user	85	$55.48	61.13	10.19%	5.65
winter average user	115	$74.21	82.28	10.88%	8.07
large user	166	$106.05	118.24	11.50%	12.19
SUMMER - GRAVITY IRRIGATION					
small user	50	$33.63	39.98	18.89%	6.35
summer average user	101	$65.47	79.53	21.49%	14.07
large user	190	$121.03	148.55	22.74%	27.53


Duarte
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf/month usage
(shows 5/8" x 3/4" meter charge and quantity charge times usage)
Total Bill ($)
$160
$140
$120
$100
$80
$60
$40
$20
$-
0
10
20
30
40
50
60
70
80
90
100
Ccf/month
Total current bill
Proposed winter total bill
Proposed summer total bill


Duarte
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
$1.50
$1.25
$1.00
$0.75
Average cost per Ccf
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


Duarte
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
1.75
1.5
1.25
1
0.75
Marginal Cost per Ccf
winter
Tier 1
$1.23
winter
Tier 2
$1.35
winter
Tier 3
$1.48
summer
Tier 1
$1.23
summer
Tier 2
$1.41
summer
Tier 3
$1.54
Proposed tier rates

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
c) WRAM for each service area
d) Modified cost balancing accounts for purchased water (including pump tax) and purchased power for each service area
e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (D.07-11-014)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030)**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 31.65	$ 10.19		5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protection Service base is 4"
Tariff - Quantity charge per ccf	$ 1.2264	$ 1.2264	$ 1.2264	$ 1.2264	$ -	$ 1.2264		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	23,000	4,872	1,100	345	380	155	29,851	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities -Sales in ccf	3,840,875 Ccf	1,217,490 Ccf	222,471 Ccf	79,207 Ccf	0 Ccf	2,155 Ccf	5,362,198 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 2,811,033	$ 595,216	$ 134,319	$ 42,147	$ 102,557	$ 18,947	$ 3,704,218	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity charge	$ 4,710,449	$ 1,493,130	$ 272,838	$ 97,139	$ -	$ 2,643	$ 6,576,200	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 7,521,482	$ 2,088,346	$ 407,157	$ 139,287	$ 102,557	$ 21,590	$ 10,280,418	
Adopted Quantities - Supply Mix							5,647,554 Ccf	
Purchase Water (ccf)							1,176,991 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)							4,470,563 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate							4.45%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Adopted Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%						**Overall**	**Comments**
Meter Charge % revenue	37.37%	28.50%	32.99%	36.03%	N/A	N/A	36.03%	
Quantity Charge % revenue	62.63%	71.50%	67.01%	63.97%			63.97%	Residential and Fire does not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	Overall calculation also does not meet BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District: **Cal Am, LA** **Revenue info from estimated 2007; usage information from 2006-2007**
Service Area **San Marino**
Proposal:
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b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
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e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff					**Adopted Connections (D.07-11-014)**					
Meter Charge % revenue	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**GPM Ratio (ratio of flow by connection diameter**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		1.00	6,954	598	15	10		
3/4" (no 3/4" meters in this district, the one listed here is likely a 5/8" meter per D. Stephenson)	$ 15.27	$ 15.27		1.00	1	0	0	0		
1"	$ 25.46	$ 25.46		2.50	4,319	347	17	8		
1.5"	$ 50.90	$ 50.90		5.00	723	189	27	5		
2"	$ 81.44	$ 81.44		8.00	204	247	69	25		
3"	$ 152.70	$ 152.70		15.00	0	4	7	1		7
4"	$ 254.50	$ 254.50	$ 31.65	25.00	0	9	4	3	46	
6"	$ 509.00	$ 509.00	$ 47.48	50.00	0	4	3	0	72	1
8"	$ 814.40	$ 814.40	$ 63.31	80.00	0	0	0	0	48	
10"	$ 1,170.70	$ 1,170.70	$ 79.13	115.00	0	0	0	0	8	
Quantity Charges					**12,201**	**1,398**	**142**	**52**	**174**	**8**
Any usage level $/Ccf	**$ 1.23**	**$ 1.23**								

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

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Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 1,407,569	$ 298,136	$ 67,289	$ 21,114	$ -	$ -	$ 1,794,109	
Equivalent Units (EU)	23,000	4,872	1,100	345	380	155	29,851	Meter connections expressed as number of std 5/8" meters
Meter charge revenue	$ 1,407,569	$ 298,136	$ 67,289	$ 21,114	$ 102,557	$ 18,947	$ 1,915,612	
Meter chg $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.50	$ 10.20	$ 5.30	$/mo per 5/8" equivalent unit
Adopted Sales ccf	3,840,875 Ccf	1,217,490 Ccf	222,471 Ccf	79,207 Ccf	0 Ccf	2,155 Ccf	5,058,365 Ccf	
New quantity charge revenue target	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753	
New SQR	$ 1.592	$ 1.470	$ 1.528	$ 1.492	N/A	$ 10.018	$ 1.563	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test							**Overall**	**Comments**
Meter Charge % revenue	18.71%	14.28%	16.53%	15.16%	N/A	N/A	18.60%	
Quantity Charge % revenue	81.29%	85.72%	83.47%	84.84%			81.40%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**
Total Rev Req	$ 7,521,482	$ 2,088,346	$ 407,157	$ 139,287	$ 102,557	$ 40,536	**$ 10,299,365**
Meter charge $/EU/mo	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.50	$ 10.20	$ 5.30
Quantity charge if SQR	$ 1.592	$ 1.470	$ 1.528	$ 1.492	N/A	$ 10.018	$ 1.563

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail				**Adopted Connections (D.07-11-014)**					
Size	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 5.10	$ 5.10	1.00	6,954	598	15	10		
3/4" (no 3/4" meters in this district, the one listed here is likely a 5/8" meter per D. Stephenson)	$ 5.10	$ 5.10	1.00	1	0	0	0		
1"	$ 12.75	$ 12.75	2.50	4,319	347	17	8		
1.5"	$ 25.50	$ 25.50	5.00	723	189	27	5		
2"	$ 40.80	$ 40.80	8.00	204	247	69	25		
3"	$ 76.50	$ 76.50	15.00	0	4	7	1		7
4"	$ 127.50	$ 127.50	25.00	0	9	4	3	46	
6"	$ 255.00	$ 255.00	50.00	0	4	3	0	72	1
8"	$ 408.00	$ 408.00	80.00	0	0	0	0	48	
10"	$ 586.50	$ 586.50	115.00	0	0	0	0	8	
				12,201	**1,398**	**142**	**52**	**174**	**8**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

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Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

RESIDENTIAL SQR $ **1.5918**
New Quantity Revenue Target $ **6,113,912**

Residential rate design	Top of Tier (monthly)	Tier Rate percentage differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 14	-	0.9266	$ 1.4750	6.32%	22.70%	15.92%	42.59%	872,033 Ccf	$ 1,286,281	21.04%
Tier 2 winter	14 to 58	10%	1.0193	$ 1.6225	28.20%	17.19%	24.56%		660,243 Ccf	$ 1,071,271	17.52%
Tier 3 winter	>58	20%	1.1120	$ 1.7700	8.07%	2.69%	2.11%		103,393 Ccf	$ 183,009	2.99%
Tier 1 summer	no change	-	0.9266	$ 1.4750	4.51%	24.56%	15.03%	57.41%	943,221 Ccf	$ 1,391,286	22.76%
Tier 2 summer	no change	15%	1.0656	$ 1.6963	34.82%	25.55%	36.88%		981,517 Ccf	$ 1,664,940	27.23%
Tier 3 summer	no change	25%	1.1583	$ 1.8438	18.08%	7.30%	5.50%		280,468 Ccf	$ 517,126	8.46%
Top of Tier - Break points	14				100.00%				3,840,875 Ccf	$ 6,113,912	100.00%
	58										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales) as % of New Res Q revenue target **0.00%**

COMMERCIAL SQR $ **1.4704**
New COMMERCIAL Q Revenue Target $ **1,790,210**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9497	$ 1.3964	47.00%	572,220 Ccf	$ 799,049
All COMMERCIAL Meters (summer)	all	1.0446	$ 1.5360	53.00%	645,270 Ccf	$ 991,161
TOTALS	**% increase in quantity rate**		**25.25%**	100.00%	1,217,490 Ccf	$ 1,790,210

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR $ **1.5277**
New PUBLIC AUTHORITY Q Revenue Target $ **339,868**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9407	$ 1.4372	37.00%	82,314 Ccf	$ 118,298
All PUBLIC AUTHORITY Meters (summer)	all	1.0348	$ 1.5809	63.00%	140,157 Ccf	$ 221,570
TOTALS	**% increase in quantity rate**		**28.90%**	100.00%	222,471 Ccf	$ 339,868

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

INDUSTRIAL SQR $ **1.4919**
New INDUSTRIAL Q Revenue Target $ **118,173**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All INDUSTRIAL Meters (winter)	all	0.9470	$ 1.4128	44.00%	34,851 Ccf	$ 49,239
All INDUSTRIAL Meters (summer)	all	1.0417	$ 1.5541	56.00%	44,356 Ccf	$ 68,934
TOTALS	**% increase in quantity rate**		**26.72%**	100.00%	79,207 Ccf	$ 118,173

Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales) as % of New INDUSTRIAL Q revenue target **0.00%**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

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e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**PRIVATE FIRE**	**OTHER**	**Total**
New Quantity Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753
Total Quantity Revenue	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753
Revenue Neutrality Check	$ -	$ -	$ -	$ -			$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%			0.00%
Meter Charge Revenue	$ 1,407,569.40	$ 298,135.80	$ 67,289.40	$ 21,114.00	$ 102,556.56	$ 18,946.80	**$ -**
Total Revenue	$ 7,521,481.86	$ 2,088,345.58	$ 407,157.19	$ 139,286.82	$ 102,556.56	$ 40,536.49	**$ 8,383,752.55**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.2264
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.4750
	Block 2 (winter)	$ 1.6225
	Block 3 (winter)	$ 1.7700
	Block 1 (summer)	$ 1.4750
	Block 2 (summer)	$ 1.6963
	Block 3 (summer)	$ 1.8438
Tier 1 Block	14	ccf
Tier 2 Block	58	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

small user (winter)		consumption		12 ccf/month
Current bill	$ 24.91			
block	rate	consumption	bill	
0 to 14	$ 1.4750	12	$ 17.70	
14 to 58	$ 1.6225	0	$ -	
>58	$ 1.7700	0	$ -	
		total bill	$ 22.80	
		Percent change in bill		**-8.46%**
		$ change in bill	**$**	**(2.11)**

annual avg user (winter)		consumption		26 ccf/month
Current bill	$ 42.08		$ 40.00	
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	12	$ 19.47	
>58	$ 1.7700	0	$ -	
		total bill	$ 45.22	
		Percent change in bill		**7.47%**
		$ change in bill	**$**	**3.14**

small user (summer)		consumption		12 ccf/month
Current bill	$ 24.91			
block	rate	consumption	bill	
0 to 14	$ 1.4750	12	$ 17.70	
14 to 58	$ 1.6963	0	$ -	
>58	$ 1.8438	0	$ -	
		total bill	$ 22.80	
		Percent change in bill		**-8.46%**
		$ change in bill	**$**	**(2.11)**

annual avg user (summer)		consumption		26 ccf/month
Current bill	$ 42.08		$ 40.00	
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	12	$ 20.36	
>58	$ 1.8438	0	$ -	
		total bill	$ 46.11	
		Percent change in bill		**9.58%**
		$ change in bill	**$**	**4.03**

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

	Meter Charge	Q Charge
Current	$ 10.19	$ 1.2264
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.4750
	Block 2 (winter)	$ 1.6225
	Block 3 (winter)	$ 1.7700
	Block 1 (summer)	$ 1.4750
	Block 2 (summer)	$ 1.6963
	Block 3 (summer)	$ 1.8438
Tier 1 Block	14	ccf
Tier 2 Block	58	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

average winter user		consumption		23 ccf/month
Current bill	$ 38.40			
block		consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	9	$ 14.60	
>58	$ 1.7700	0	$ -	
		total bill	$ 40.35	
		Percent change in bill		**5.09%**
		$ change in bill	**$**	**1.96**

average summer user		consumption		30 ccf/month
Current bill	$ 46.98			
block		consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	16	$ 27.14	
>58	$ 1.8438	0	$ -	
		total bill	$ 52.89	
		Percent change in bill		**12.58%**
		$ change in bill	**$**	**5.91**

large user (winter)		consumption		49 ccf/month
Current bill	$ 70.28			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	35	$ 56.79	
>58	$ 1.7700	0	$ -	
		total bill	$ 82.54	
		Percent change in bill		**17.44%**
		$ change in bill	**$**	**12.26**

largest user (winter)		consumption		784 ccf/month
Current bill	$ 971.69			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	44	$ 71.39	
>58	$ 1.7700	726	$ 1,285.05	
		total bill	$ 1,382.19	
		Percent change in bill		**42.25%**
		$ change in bill	**$**	**410.51**

large user (summer)		consumption		49 ccf/month
Current bill	$ 70.28			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	35	$ 59.37	
>58	$ 1.8438	0	$ -	
		total bill	$ 85.12	
		Percent change in bill		**21.11%**
		$ change in bill	**$**	**14.84**

largest user (summer)		consumption		1253 ccf/month
Current bill	$ 1,546.87			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	44	$ 74.64	
>58	$ 1.8438	1195	$ 2,203.34	
		total bill	$ 2,303.72	
		Percent change in bill		**48.93%**
		$ change in bill	**$**	**756.85**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	14	tier 2	58

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

WINTER

Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Winter Rates				(3)	(4)	Change in Winter Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.2264	Total current bill	Current avg unit cost	Meter Charge	winter Tier 1 $1.4750	winter Tier 2 $1.6225	winter Tier 3 $1.7700	Proposed winter total bill	Proposed avg winter unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.0000	-5.09	-49.95%
1	10.19	1.23	11.42	1.23	5.10	1.48			6.58	1.4750	-4.84	-42.41%
2	10.19	2.45	12.64	1.23	5.10	2.95			8.05	1.4750	-4.59	-36.33%
3	10.19	3.68	13.87	1.23	5.10	4.43			9.53	1.4750	-4.34	-31.32%
4	10.19	4.91	15.10	1.23	5.10	5.90			11.00	1.4750	-4.10	-27.13%
5	10.19	6.13	16.32	1.23	5.10	7.38			12.48	1.4750	-3.85	-23.57%
6	10.19	7.36	17.55	1.23	5.10	8.85			13.95	1.4750	-3.60	-20.50%
7	10.19	8.58	18.77	1.23	5.10	10.33			15.43	1.4750	-3.35	-17.84%
8	10.19	9.81	20.00	1.23	5.10	11.80			16.90	1.4750	-3.10	-15.50%
9	10.19	11.04	21.23	1.23	5.10	13.28			18.38	1.4750	-2.85	-13.44%
10	10.19	12.26	22.45	1.23	5.10	14.75			19.85	1.4750	-2.60	-11.60%
11	10.19	13.49	23.68	1.23	5.10	16.23			21.33	1.4750	-2.35	-9.94%
12	10.19	14.72	24.91	1.23	5.10	17.70			22.80	1.4750	-2.11	-8.46%
13	10.19	15.94	26.13	1.23	5.10	19.18			24.28	1.4750	-1.86	-7.11%
14	10.19	17.17	27.36	1.23	5.10	20.65			25.75	1.4750	-1.61	-5.88%
15	10.19	18.40	28.59	1.23	5.10	20.65	1.62		27.37	1.4849	-1.21	-4.24%
16	10.19	19.62	29.81	1.23	5.10	20.65	3.25		29.00	1.4935	-0.82	-2.74%
17	10.19	20.85	31.04	1.23	5.10	20.65	4.87		30.62	1.5011	-0.42	-1.36%
18	10.19	22.08	32.27	1.23	5.10	20.65	6.49		32.24	1.5078	-0.02	-0.08%
19	10.19	23.30	33.49	1.23	5.10	20.65	8.11		33.86	1.5139	0.37	1.11%
20	10.19	24.53	34.72	1.23	5.10	20.65	9.74		35.49	1.5193	0.77	2.21%
21	10.19	25.75	35.94	1.23	5.10	20.65	11.36		37.11	1.5242	1.16	3.24%
22	10.19	26.98	37.17	1.23	5.10	20.65	12.98		38.73	1.5287	1.56	4.20%
23	10.19	28.21	38.40	1.23	5.10	20.65	14.60		40.35	1.5328	1.96	5.09%
24	10.19	29.43	39.62	1.23	5.10	20.65	16.23		41.98	1.5365	2.35	5.94%
25	10.19	30.66	40.85	1.23	5.10	20.65	17.85		43.60	1.5399	2.75	6.73%
26	10.19	31.89	42.08	1.23	5.10	20.65	19.47		45.22	1.5431	3.14	7.47%
27	10.19	33.11	43.30	1.23	5.10	20.65	21.09		46.84	1.5461	3.54	8.18%
28	10.19	34.34	44.53	1.23	5.10	20.65	22.72		48.47	1.5488	3.94	8.84%
29	10.19	35.57	45.76	1.23	5.10	20.65	24.34		50.09	1.5513	4.33	9.47%
30	10.19	36.79	46.98	1.23	5.10	20.65	25.96		51.71	1.5537	4.73	10.07%
31	10.19	38.02	48.21	1.23	5.10	20.65	27.58		53.33	1.5559	5.13	10.63%
32	10.19	39.24	49.43	1.23	5.10	20.65	29.21		54.96	1.5580	5.52	11.17%
33	10.19	40.47	50.66	1.23	5.10	20.65	30.83		56.58	1.5600	5.92	11.68%
34	10.19	41.70	51.89	1.23	5.10	20.65	32.45		58.20	1.5618	6.31	12.17%
35	10.19	42.92	53.11	1.23	5.10	20.65	34.07		59.82	1.5635	6.71	12.63%
36	10.19	44.15	54.34	1.23	5.10	20.65	35.70		61.45	1.5652	7.11	13.08%
37	10.19	45.38	55.57	1.23	5.10	20.65	37.32		63.07	1.5667	7.50	13.50%
38	10.19	46.60	56.79	1.23	5.10	20.65	38.94		64.69	1.5682	7.90	13.91%
39	10.19	47.83	58.02	1.23	5.10	20.65	40.56		66.31	1.5696	8.29	14.30%
40	10.19	49.06	59.25	1.23	5.10	20.65	42.19		67.94	1.5709	8.69	14.67%
41	10.19	50.28	60.47	1.23	5.10	20.65	43.81		69.56	1.5722	9.09	15.03%
42	10.19	51.51	61.70	1.23	5.10	20.65	45.43		71.18	1.5734	9.48	15.37%
43	10.19	52.74	62.93	1.23	5.10	20.65	47.05		72.80	1.5745	9.88	15.70%
44	10.19	53.96	64.15	1.23	5.10	20.65	48.68		74.43	1.5756	10.28	16.02%
45	10.19	55.19	65.38	1.23	5.10	20.65	50.30		76.05	1.5767	10.67	16.32%
46	10.19	56.41	66.60	1.23	5.10	20.65	51.92		77.67	1.5776	11.07	16.62%
47	10.19	57.64	67.83	1.23	5.10	20.65	53.54		79.29	1.5786	11.46	16.90%
48	10.19	58.87	69.06	1.23	5.10	20.65	55.17		80.92	1.5795	11.86	17.17%
49	10.19	60.09	70.28	1.23	5.10	20.65	56.79		82.54	1.5804	12.26	17.44%
50	10.19	61.32	71.51	1.23	5.10	20.65	58.41		84.16	1.5812	12.65	17.69%
51	10.19	62.55	72.74	1.23	5.10	20.65	60.03		85.78	1.5820	13.05	17.94%
52	10.19	63.77	73.96	1.23	5.10	20.65	61.66		87.41	1.5828	13.44	18.18%
53	10.19	65.00	75.19	1.23	5.10	20.65	63.28		89.03	1.5836	13.84	18.41%
54	10.19	66.23	76.42	1.23	5.10	20.65	64.90		90.65	1.5843	14.24	18.63%
55	10.19	67.45	77.64	1.23	5.10	20.65	66.52		92.27	1.5850	14.63	18.85%
56	10.19	68.68	78.87	1.23	5.10	20.65	68.15		93.90	1.5857	15.03	19.06%
57	10.19	69.90	80.09	1.23	5.10	20.65	69.77		95.52	1.5863	15.42	19.26%
58	10.19	71.13	81.32	1.23	5.10	20.65	71.39		97.14	1.5869	15.82	19.46%
59	10.19	72.36	82.55	1.23	5.10	20.65	71.39	1.77	98.91	1.5900	16.36	19.82%
60	10.19	73.58	83.77	1.23	5.10	20.65	71.39	3.54	100.68	1.5930	16.91	20.18%
70	10.19	85.85	96.04	1.23	5.10	20.65	71.39	21.24	118.38	1.6183	22.34	23.27%
80	10.19	98.11	108.30	1.23	5.10	20.65	71.39	38.94	136.08	1.6373	27.78	25.65%
90	10.19	110.38	120.57	1.23	5.10	20.65	71.39	56.64	153.78	1.6520	33.22	27.55%
100	10.19	122.64	132.83	1.23	5.10	20.65	71.39	74.34	171.48	1.6638	38.65	29.10%
110	10.19	134.90	145.09	1.23	5.10	20.65	71.39	92.04	189.18	1.6735	44.09	30.39%
120	10.19	147.17	157.36	1.23	5.10	20.65	71.39	109.74	206.89	1.6815	49.53	31.47%
130	10.19	159.43	169.62	1.23	5.10	20.65	71.39	127.44	224.59	1.6883	54.96	32.40%
140	10.19	171.70	181.89	1.23	5.10	20.65	71.39	145.14	242.29	1.6942	60.40	33.21%
150	10.19	183.96	194.15	1.23	5.10	20.65	71.39	162.84	259.99	1.6992	65.84	33.91%
160	10.19	196.22	206.41	1.23	5.10	20.65	71.39	180.54	277.69	1.7037	71.27	34.53%
170	10.19	208.49	218.68	1.23	5.10	20.65	71.39	198.24	295.39	1.7076	76.71	35.08%
180	10.19	220.75	230.94	1.23	5.10	20.65	71.39	215.95	313.09	1.7110	82.15	35.57%
190	10.19	233.02	243.21	1.23	5.10	20.65	71.39	233.65	330.79	1.7141	87.58	36.01%
200	10.19	245.28	255.47	1.23	5.10	20.65	71.39	251.35	348.49	1.7169	93.02	36.41%
300	10.19	367.92	378.11	1.23	5.10	20.65	71.39	428.35	525.49	1.7346	147.38	38.98%
400	10.19	490.56	500.75	1.23	5.10	20.65	71.39	605.36	702.50	1.7435	201.75	40.29%
500	10.19	613.20	623.39	1.23	5.10	20.65	71.39	782.36	879.50	1.7488	256.11	41.08%
600	10.19	735.84	746.03	1.23	5.10	20.65	71.39	959.36	1056.51	1.7523	310.48	41.62%
700	10.19	858.48	868.67	1.23	5.10	20.65	71.39	1136.37	1233.51	1.7549	364.84	42.00%
800	10.19	981.12	991.31	1.23	5.10	20.65	71.39	1313.37	1410.51	1.7568	419.20	42.29%
900	10.19	1103.76	1113.95	1.23	5.10	20.65	71.39	1490.38	1587.52	1.7582	473.57	42.51%
1000	10.19	1226.40	1236.59	1.23	5.10	20.65	71.39	1667.38	1764.52	1.7594	527.93	42.69%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	14	tier 2	58

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(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 quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

SUMMER

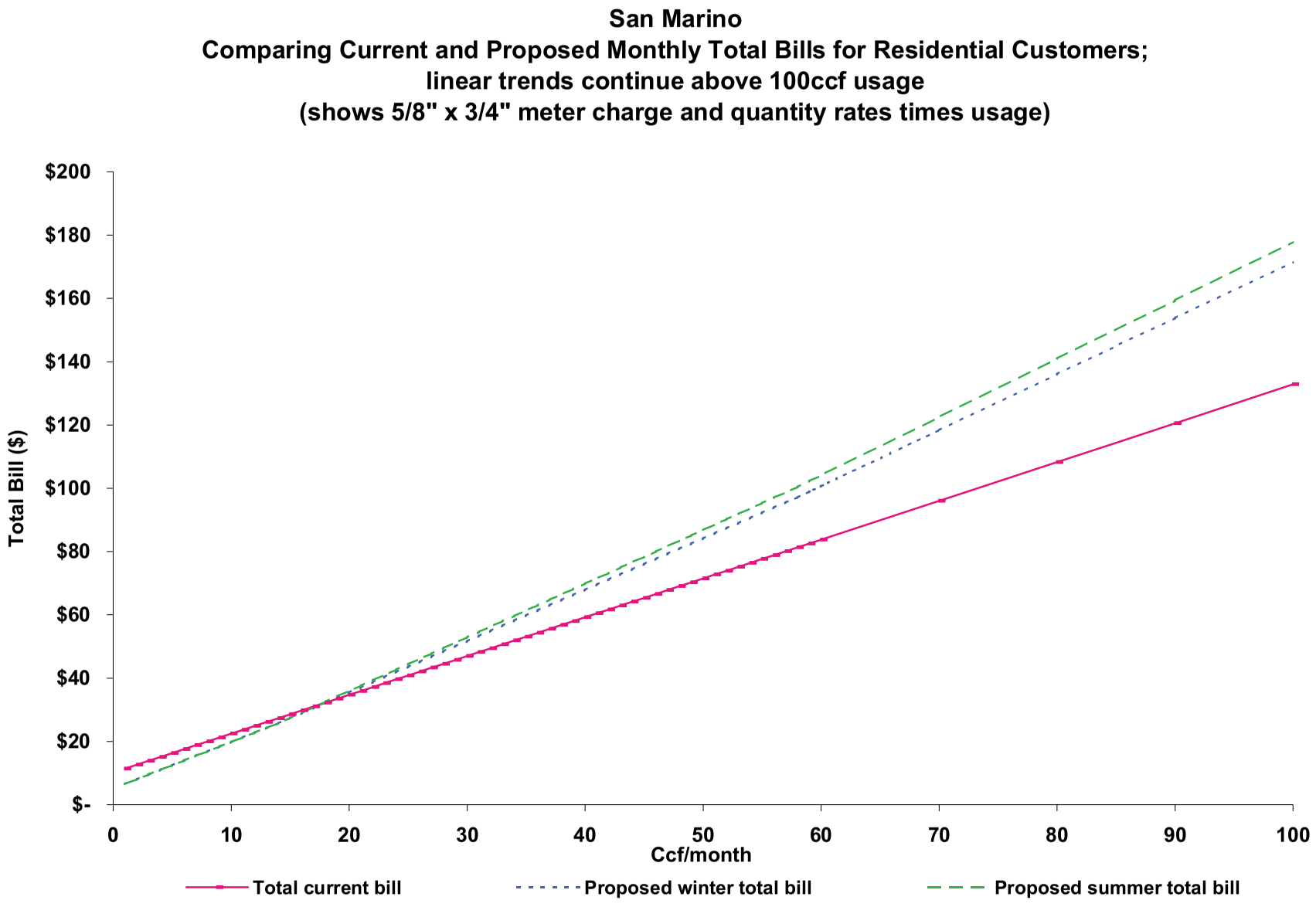
Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Summer Rates						Change in Summer Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $1.2264	Total current bill	Current avg unit cost	Meter Charge	summer Tier 1 $1.4750	summer Tier 2 $1.6963	summer Tier 3 $1.8438	Proposed summer total bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.23	11.42	1.23	5.10	1.48			6.58	1.48	-4.84	-42.41%
2	10.19	2.45	12.64	1.23	5.10	2.95			8.05	1.48	-4.59	-36.33%
3	10.19	3.68	13.87	1.23	5.10	4.43			9.53	1.48	-4.34	-31.32%
4	10.19	4.91	15.10	1.23	5.10	5.90			11.00	1.48	-4.10	-27.13%
5	10.19	6.13	16.32	1.23	5.10	7.38			12.48	1.48	-3.85	-23.57%
6	10.19	7.36	17.55	1.23	5.10	8.85			13.95	1.48	-3.60	-20.50%
7	10.19	8.58	18.77	1.23	5.10	10.33			15.43	1.48	-3.35	-17.84%
8	10.19	9.81	20.00	1.23	5.10	11.80			16.90	1.48	-3.10	-15.50%
9	10.19	11.04	21.23	1.23	5.10	13.28			18.38	1.48	-2.85	-13.44%
10	10.19	12.26	22.45	1.23	5.10	14.75			19.85	1.48	-2.60	-11.60%
11	10.19	13.49	23.68	1.23	5.10	16.23			21.33	1.48	-2.35	-9.94%
12	10.19	14.72	24.91	1.23	5.10	17.70			22.80	1.48	-2.11	-8.46%
13	10.19	15.94	26.13	1.23	5.10	19.18			24.28	1.48	-1.86	-7.11%
14	10.19	17.17	27.36	1.23	5.10	20.65			25.75	1.48	-1.61	-5.88%
15	10.19	18.40	28.59	1.23	5.10	20.65	1.70		27.45	1.49	-1.14	-3.99%
16	10.19	19.62	29.81	1.23	5.10	20.65	3.39		29.14	1.50	-0.67	-2.25%
17	10.19	20.85	31.04	1.23	5.10	20.65	5.09		30.84	1.51	-0.20	-0.64%
18	10.19	22.08	32.27	1.23	5.10	20.65	6.79		32.54	1.52	0.27	0.84%
19	10.19	23.30	33.49	1.23	5.10	20.65	8.48		34.23	1.53	0.74	2.21%
20	10.19	24.53	34.72	1.23	5.10	20.65	10.18		35.93	1.54	1.21	3.49%
21	10.19	25.75	35.94	1.23	5.10	20.65	11.87		37.62	1.55	1.68	4.67%
22	10.19	26.98	37.17	1.23	5.10	20.65	13.57		39.32	1.56	2.15	5.78%
23	10.19	28.21	38.40	1.23	5.10	20.65	15.27		41.02	1.56	2.62	6.82%
24	10.19	29.43	39.62	1.23	5.10	20.65	16.96		42.71	1.57	3.09	7.80%
25	10.19	30.66	40.85	1.23	5.10	20.65	18.66		44.41	1.57	3.56	8.71%
26	10.19	31.89	42.08	1.23	5.10	20.65	20.36		46.11	1.58	4.03	9.58%
27	10.19	33.11	43.30	1.23	5.10	20.65	22.05		47.80	1.58	4.50	10.39%
28	10.19	34.34	44.53	1.23	5.10	20.65	23.75		49.50	1.59	4.97	11.16%
29	10.19	35.57	45.76	1.23	5.10	20.65	25.44		51.19	1.59	5.44	11.89%
30	10.19	36.79	46.98	1.23	5.10	20.65	27.14		52.89	1.59	5.91	12.58%
31	10.19	38.02	48.21	1.23	5.10	20.65	28.84		54.59	1.60	6.38	13.23%
32	10.19	39.24	49.43	1.23	5.10	20.65	30.53		56.28	1.60	6.85	13.85%
33	10.19	40.47	50.66	1.23	5.10	20.65	32.23		57.98	1.60	7.32	14.45%
34	10.19	41.70	51.89	1.23	5.10	20.65	33.93		59.68	1.61	7.79	15.01%
35	10.19	42.92	53.11	1.23	5.10	20.65	35.62		61.37	1.61	8.26	15.55%
36	10.19	44.15	54.34	1.23	5.10	20.65	37.32		63.07	1.61	8.73	16.06%
37	10.19	45.38	55.57	1.23	5.10	20.65	39.01		64.77	1.61	9.20	16.55%
38	10.19	46.60	56.79	1.23	5.10	20.65	40.71		66.46	1.61	9.67	17.02%
39	10.19	47.83	58.02	1.23	5.10	20.65	42.41		68.16	1.62	10.14	17.47%
40	10.19	49.06	59.25	1.23	5.10	20.65	44.10		69.85	1.62	10.61	17.91%
41	10.19	50.28	60.47	1.23	5.10	20.65	45.80		71.55	1.62	11.08	18.32%
42	10.19	51.51	61.70	1.23	5.10	20.65	47.50		73.25	1.62	11.55	18.72%
43	10.19	52.74	62.93	1.23	5.10	20.65	49.19		74.94	1.62	12.02	19.10%
44	10.19	53.96	64.15	1.23	5.10	20.65	50.89		76.64	1.63	12.49	19.47%
45	10.19	55.19	65.38	1.23	5.10	20.65	52.59		78.34	1.63	12.96	19.82%
46	10.19	56.41	66.60	1.23	5.10	20.65	54.28		80.03	1.63	13.43	20.16%
47	10.19	57.64	67.83	1.23	5.10	20.65	55.98		81.73	1.63	13.90	20.49%
48	10.19	58.87	69.06	1.23	5.10	20.65	57.67		83.42	1.63	14.37	20.80%
49	10.19	60.09	70.28	1.23	5.10	20.65	59.37		85.12	1.63	14.84	21.11%
50	10.19	61.32	71.51	1.23	5.10	20.65	61.07		86.82	1.63	15.31	21.41%
51	10.19	62.55	72.74	1.23	5.10	20.65	62.76		88.51	1.64	15.78	21.69%
52	10.19	63.77	73.96	1.23	5.10	20.65	64.46		90.21	1.64	16.25	21.97%
53	10.19	65.00	75.19	1.23	5.10	20.65	66.16		91.91	1.64	16.72	22.23%
54	10.19	66.23	76.42	1.23	5.10	20.65	67.85		93.60	1.64	17.19	22.49%
55	10.19	67.45	77.64	1.23	5.10	20.65	69.55		95.30	1.64	17.66	22.74%
56	10.19	68.68	78.87	1.23	5.10	20.65	71.24		96.99	1.64	18.13	22.98%
57	10.19	69.90	80.09	1.23	5.10	20.65	72.94		98.69	1.64	18.60	23.22%
58	10.19	71.13	81.32	1.23	5.10	20.65	74.64		100.39	1.64	19.07	23.45%
59	10.19	72.36	82.55	1.23	5.10	20.65	74.64	1.84	102.23	1.65	19.68	23.85%
60	10.19	73.58	83.77	1.23	5.10	20.65	74.64	3.69	104.07	1.65	20.30	24.23%
70	10.19	85.85	96.04	1.23	5.10	20.65	74.64	22.13	122.51	1.68	26.47	27.57%
80	10.19	98.11	108.30	1.23	5.10	20.65	74.64	40.56	140.95	1.70	32.65	30.15%
90	10.19	110.38	120.57	1.23	5.10	20.65	74.64	59.00	159.39	1.71	38.82	32.20%
100	10.19	122.64	132.83	1.23	5.10	20.65	74.64	77.44	177.83	1.73	45.00	33.88%
110	10.19	134.90	145.09	1.23	5.10	20.65	74.64	95.88	196.26	1.74	51.17	35.27%
120	10.19	147.17	157.36	1.23	5.10	20.65	74.64	114.32	214.70	1.75	57.34	36.44%
130	10.19	159.43	169.62	1.23	5.10	20.65	74.64	132.75	233.14	1.75	63.52	37.45%
140	10.19	171.70	181.89	1.23	5.10	20.65	74.64	151.19	251.58	1.76	69.69	38.32%
150	10.19	183.96	194.15	1.23	5.10	20.65	74.64	169.63	270.02	1.77	75.87	39.08%
160	10.19	196.22	206.41	1.23	5.10	20.65	74.64	188.07	288.45	1.77	82.04	39.75%
170	10.19	208.49	218.68	1.23	5.10	20.65	74.64	206.51	306.89	1.78	88.21	40.34%
180	10.19	220.75	230.94	1.23	5.10	20.65	74.64	224.94	325.33	1.78	94.39	40.87%
190	10.19	233.02	243.21	1.23	5.10	20.65	74.64	243.38	343.77	1.78	100.56	41.35%
200	10.19	245.28	255.47	1.23	5.10	20.65	74.64	261.82	362.21	1.79	106.74	41.78%
300	10.19	367.92	378.11	1.23	5.10	20.65	74.64	446.20	546.59	1.80	168.48	44.56%
400	10.19	490.56	500.75	1.23	5.10	20.65	74.64	630.58	730.97	1.81	230.22	45.97%
500	10.19	613.20	623.39	1.23	5.10	20.65	74.64	814.96	915.35	1.82	291.96	46.83%
600	10.19	735.84	746.03	1.23	5.10	20.65	74.64	999.34	1099.72	1.82	353.69	47.41%
700	10.19	858.48	868.67	1.23	5.10	20.65	74.64	1183.72	1284.10	1.83	415.43	47.82%
800	10.19	981.12	991.31	1.23	5.10	20.65	74.64	1368.10	1468.48	1.83	477.17	48.14%
900	10.19	1103.76	1113.95	1.23	5.10	20.65	74.64	1552.48	1652.86	1.83	538.91	48.38%
1000	10.19	1226.40	1236.59	1.23	5.10	20.65	74.64	1736.86	1837.24	1.83	600.65	48.57%

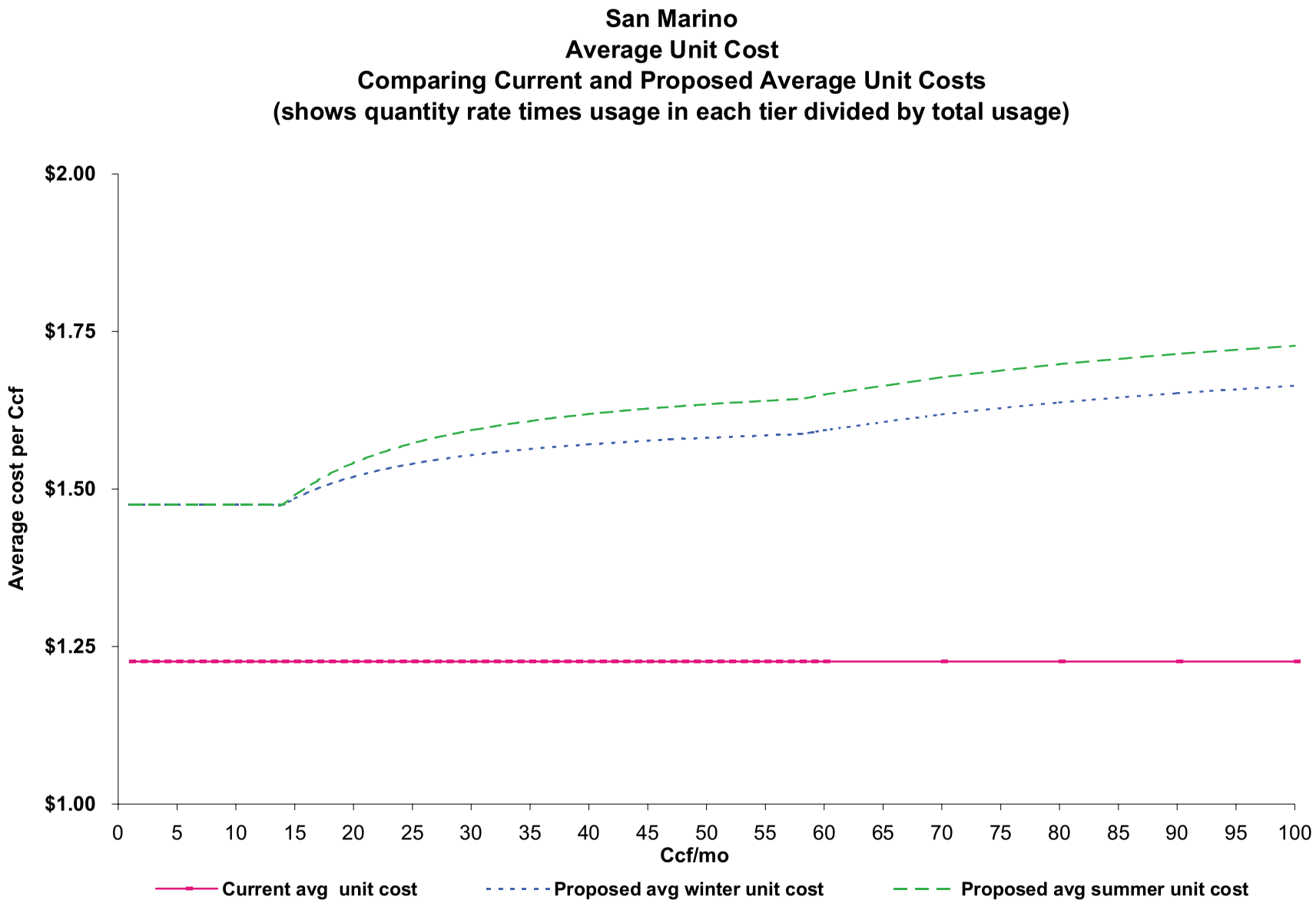
Non-residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

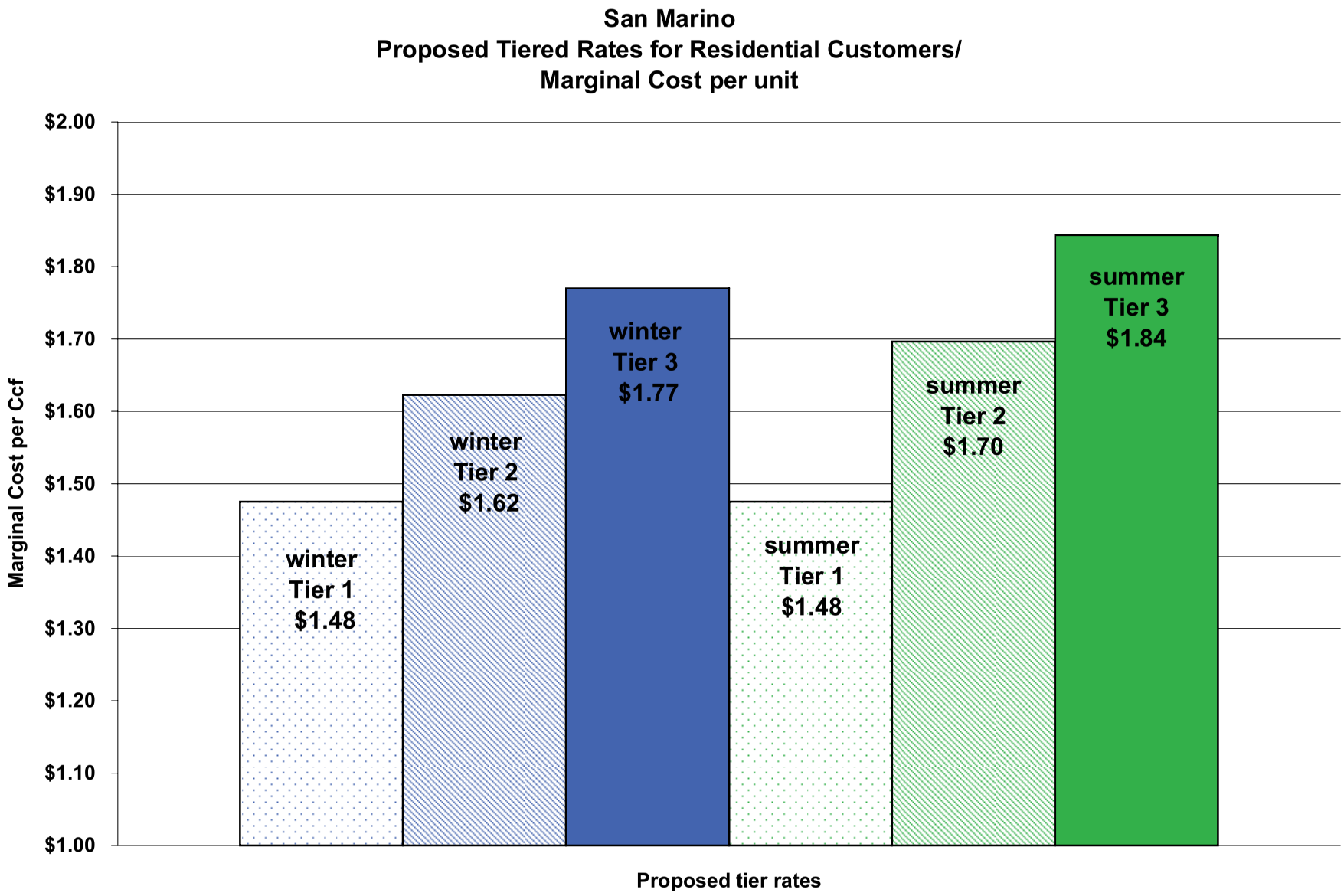
	Meter Charge	Quantity Charge
Current	$ 10.19	$ 1.2264
Proposed		
Commercial winter	$ 5.10	$ 1.3964
Commercial summer	$ 5.10	$ 1.5360
Public Authority winter	$ 5.10	$ 1.4372
Public Authority summer	$ 5.10	$ 1.5809
Industrial winter	$ 5.10	$ 1.4128
Industrial summer	$ 5.10	$ 1.5541

"small user" represents 25th percentile user
"large user" represents 90th percentile user

Season and User	Consumption (Ccf)	Total current bill	Total proposed bill	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	8	$20.00	16.27	-18.65%	(3.73)
winter average user	61	$85.00	90.28	6.21%	5.28
large user	146	$189.24	208.97	10.43%	19.73
SUMMER - COMMERCIAL					
small user	8	$20.00	17.39	-13.06%	(2.61)
summer average user	68	$93.59	109.55	17.06%	15.97
large user	162	$208.87	253.94	21.58%	45.07
WINTER - PUBLIC AUTHORITY					
small user	13	$26.13	23.78	-8.99%	(2.35)
winter average user	107	$141.41	158.88	12.35%	17.46
large user	264	$333.96	384.51	15.14%	50.55
SUMMER - PUBLIC AUTHORITY					
small user	22	$37.17	39.88	7.29%	2.71
summer average user	181	$232.17	291.24	25.44%	59.07
large user	433	$541.22	689.62	27.42%	148.40
WINTER - INDUSTRIAL					
small user	4	$15.10	10.75	-28.78%	(4.34)
winter average user	101	$134.06	147.80	10.25%	13.74
large user	303	$381.79	433.19	13.46%	51.40
SUMMER - INDUSTRIAL					
small user	9	$21.23	19.09	-10.08%	(2.14)
summer average user	122	$159.81	194.70	21.83%	34.89
large user	450	$562.07	704.45	25.33%	142.38


San Marino
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf usage
(shows 5/8" x 3/4" meter charge and quantity rates times usage)
Total Bill ($)
$200
$180
$160
$140
$120
$100
$80
$60
$40
$20
$-
0
10
20
30
40
50
60
70
80
90
100
Ccf/month
Total current bill
Proposed winter total bill
Proposed summer total bill


San Marino
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
$2.00
$1.75
$1.50
$1.25
$1.00
Average cost per Ccf
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


San Marino
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
$2.00
$1.90
$1.80
$1.70
$1.60
$1.50
$1.40
$1.30
$1.20
$1.10
$1.00
Marginal Cost per Ccf
winter Tier 1 $1.48
winter Tier 2 $1.62
winter Tier 3 $1.77
summer Tier 1 $1.48
summer Tier 2 $1.70
summer Tier 3 $1.84
Proposed tier rates