

NOTICE OF FINANCE COMMITTEE MEETING

NOTICE IS HEREBY GIVEN that the San Lorenzo Valley Water District has called a regular meeting of the Finance Committee to be held Wednesday, June 3, 2015 at 9:00 a.m. at the Operations Building, 13057 Highway 9, Boulder Creek, California.

AGENDA

- 1. Convene Meeting/Roll Call
- 2. Oral Communications

This portion of the agenda is reserved for Oral Communications by the public for items which are not on the Agenda. Any person may address the Committee at this time, on any subject that lies within the jurisdiction of the Committee. Normally, presentations must not exceed three (3) minutes in length, and individuals may only speak once during Oral Communications. No actions may be taken by the Committee on any Oral Communications presented; however, the Committee may request that the matter be placed on a future agenda. Please state your name and town/city of residence at the beginning of the statement for the record.

3. New Business

Members of the public will be given the opportunity to address each scheduled item prior to Committee action. The Chairperson of the Committee may establish a time limit for members of the public to address the Committee on agendized items.

- BEAR CREEK ESTATES RATE STUDY
 Discussion and possible action regarding the Bear Creek Estates Rate Study.
- b. FY1415 REVENUE COMPARISON
 Discussion and possible action regarding FY 1415 revenue comparison. (attachment)
- DROUGHT SURCHARGE
 Discussion and possible action regarding drought surcharge

Old Business:

- a. 2015-16 BUDGET*
 Discussion and possible action regarding the 2015-16 Budget.
 (*copy of the 2015-16 Budget is available on line)
- 5. Informational Material: None.
- 6. Adjournment

In compliance with the requirements of Title II of the American Disabilities Act of 1990, the San Lorenzo Valley Water District requires that any person in need of any type of special equipment, assistance or accommodation(s) in order to communicate at the District's Public Meeting can contact the District Office at (831) 338-2153 a minimum of 72 hours prior to the scheduled meeting.

Agenda documents, including materials related to an item on this agenda submitted to the Committee after distribution of the agenda packet, are available for public inspection and may be reviewed at the office of the District Secretary, 13060 Highway 9, Boulder Creek, CA 95006 during normal business hours. Such documents may also be available on the District website at www.slvwd.com subject to staff's ability to post the documents before the meeting.

Certification of Posting

I hereby certify that on May 29, 2015, I posted a copy of the foregoing agenda in the outside display case at the District Office, 13060 Highway 9, Boulder Creek, California, said time being at least 72 hours in advance of the meeting of the Finance Committee of the San Lorenzo Valley Water District in compliance with California Government Code Section 54956.

Executed at Boulder Creek, California, on May 29, 2015.

Holly B. Morrison, District Secretary San Lorenzo Valley Water District



REQUEST FOR PROPOSALS

TO PROVIDE:

CONSULTING SERVICES TO THE SAN LORNZO VALLEY WATER DISTRICT

PROJECT TITLE:

BEAR CREEK ESTATES SANITARY SYSTEM FINANCIAL STUDY

RESPONSE DUE BEFORE 3:00 P.M.

ON

JULY 10, 2015

San Lorenzo Valley Water District 13060 Highway 9 Boulder Creek, CA 95006 (831) 430-4625



I. INTRODUCTION

The San Lorenzo Valley Water District owns and operates a wastewater collection and treatment system along Bear Creek Road, in and around the neighborhoods along Deerwood Drive, Harmon Gulch and Timberwood Road. The Bear Creek Estates Sanitary System (BCESS) system serves 41 homes.

- 1. System of gravity sewer pipes collecting wastewater from individual homes within the service area. Total length and size of gravity system is unknown
- 2. Force main delivering wastewater from a centralized collection point to a treatment plant. Size, material and length of force main are unknown.
- 3. One pump station.
- 4. One bio-treatment plant with leach field disposal

The system is operated under California Regional Water Quality Control Board Order No. 00-043.

The District currently budgets a flat \$100,000 annual operational revenue for the BCESS. Yearly operational costs fluctuate, but regularly exceed annual revenue. Historically, funds have not been adequate to properly maintain the collection system and treatment plant. Capital Improvement and replacement projects have been financially constrained and limited to emergency or mandatory work only. The wastewater enterprise fund currently has no capital reserves. The District currently has no Capital Improvement Program for BCESS.

The District desires to conduct a rate study that establishes adequate funds to properly maintain the system, build up reserves and fund necessary capital replacement projects.

District anticipates a four-month schedule for completion of this financial study. Estimated completion and Board presentation is anticipated in December 2015.

II. PROJECT SCOPE OF SERVICES

The proposed scope of required services for this project includes:

TASK 100 - PROJECT MANAGEMENT AND INFORMATION COLLECTION

Consultant shall provide overall project management including contract administration, budget and schedule tracking, kick-off and progress meetings and controls. Consultant shall provide internal quality control and quality assurance procedures.

Consultant shall propose a project schedule that meets or exceeds the timeline provided in this Request for Proposals.

Consultant shall research and review existing studies and reports regarding the age and condition of the existing capital components of the entire system and how the District has historically provided for the enterprise fund.

TASK 200 - COST OF SERVICE

Consultant shall analyze the cost characteristics for providing reliable service. Calculations used in the cost of service analysis will include administrative overhead, operations, maintenance, and replacement and enhancements of facilities to comply with new and revised regulations and ensure system reliability.

Consultant shall study available documentation and conduct sufficient field investigation to establish appropriate knowledge of the age, condition and workings of the existing system to make appropriate assumptions regarding a replacement schedule for all capital facilities. The need to fund long-term capital replacement is of critical importance to this study.



Consultant shall consider the impact of current and proposed environmental regulations on the operation and discharge requirements of the system.

Cost of service components to consider include, but are not limited to pumping, treatment, collection, operation and maintenance, administrative and overhead, replacement and capital improvements.

TASK 300 - FINANCIAL ANALYSIS

Consultant shall analyze the existing sewer enterprise's current financial status to determine appropriate reserve levels and funding mechanisms. Rates and charges resulting from the financial analysis shall ensure the District can operate the system adequately and complete projects required to ensure system reliability.

Consultant shall analyze current and historical revenue and billing data.

Consultant shall analyze and discuss the appropriateness of District's current reserve policies as they relate to the sewer enterprise fund.

Consultant shall analyze existing District functioning to propose adequate allocation of overhead between the water and sewer enterprises.

Consultant shall review and evaluate sewer utility operations of other local entities, including rate structures, to compare proposed rate structures.

TASK 400 - PROPOSED RATES

Using industry standards and accepted practices, Consultant shall develop a five year (5-year) plan of proposed rates that are appropriate, produce the desired revenues and comply with Proposition 218 as well as any other legal requirement. Other miscellaneous fees and charges that may also be appropriate to the sewer enterprise fund may also be recommended.

The consultant shall provide options with appropriate analysis for recovery of cost of services. Each option shall provide direct identification of revenues appropriate to fund operating activities, infrastructure replacement and maintenance of appropriate reserves.

TASK 500 - FINAL RATE ANALYSIS REPORT

Consultant shall prepare a final report that provides a detailed analysis of work performed and assumptions made. The report shall provide a clear written analysis of the basis upon which rates were calculated. Rates shall be based on the actual cost of service. The report shall include current rate information and recommended rates over the five year period, including methodology and supporting analysis, fees and rate comparisons.

Consultant shall demonstrate that proposed rate structures are easy to understand and administer.

Consultant shall provide a model (Excel workbook) and appropriate training for District staff to use going forward.

Consultant shall provide seven (7) hard copies (one wet signature and six copies) and a digital pdf of the final report.

Consultant shall demonstrate that any proposed rates and fees are in keeping with the District's adopted Strategic Plan.



III. PROPOSAL REQUIREMENTS

The proposal shall not exceed 15 pages excluding resumes, cover letter, dividers, front and back covers. Responses to this RFP shall be in the following order and shall include:

1. Executive Summary (2 pages maximum)

Summarize the contents of your firm's proposal in a clear and concise manner.

2. Project Description (3 pages maximum)

- i. Explain the objective of the project and how you propose to accomplish the recognized goals.
- ii. Describe the services and deliverables to be provided.
- iii. Include a statement on what makes your firm uniquely qualified.

3. Identification of Prime Consultant (1 page maximum)

- i. Legal name and address of the company.
- ii. Legal form of company (partnership, corporation).
- iii. If company is wholly owned subsidiary of a "parent company," identify the "parent company."
- iv. Name, title, address and telephone number of person to contact concerning the Response Submittal.
- v. Number of staff and the discipline/job title of each.

4. Identification of Sub Consultants, if any (1 page maximum)

- i. Legal name and address of the company.
- ii. Name, title, address and telephone number of prime contact
- iii. Number of staff and the discipline/job title of each.

5. Project Organization and Experience of the Project Team (3 pages maximum, not including resumes)

- i. Describe proposed project organization, including identification and responsibilities of key personnel, including sub-consultants. Include only one-page resumes.
- ii. Describe the experience of the Project Manager and the experience that the proposed personnel have working on past projects as a team.
- iii. Describe project management approach to the work effort, locations where work will be done, responsibilities for coordination with the District, lines of communication necessary to maintain design on schedule.
- iv. Describe a proposed schedule showing all facets of work that will meet the District's objectives and goals in a timely manor.
- v. Describe the Firm's capacity to perform the work within the time limitations, considering the firm's current and planned workload and the firm's current and planned work force.

6. Experience and Past Performance, Including Cost and Schedule Control (3 pages max / 3 projects max)

- i. Include a summary of the past experience and performance of the Project Manager on similar projects. Include the following information:
 - 1. Owner, contact name and phone number
 - 2. Project size and description
 - 3. Project design budget and total dollar value of completed design
 - 4. Budgeted project design schedule and total time to design completion
 - 5. Estimated construction costs and actual construction costs
- ii. Describe the firm's past experience and performance on similar projects. Include the information listed above.



7. Firm's Local Experience (1 page maximum)

Describe the firm's experience and knowledge with Sewer District Rate Studies.

8. Creative Alternatives (1 pages maximum)

Discuss any creative solutions to meet the project objectives.

9. Proposed Total Professional Fee and Fee Schedules Submitted Under Separate Sealed Cover

- i. Proposed fee shall be organized into Task 100 through 500, as discussed above, with appropriate further breakdown into subtasks.
- ii. Proposed Fee Schedule shall include an estimated timeline (Gantt Chart Format) for completion of each task and subtask.
- iii. Proposed fee shall not be the sole basis of award, but will be used to evaluate the Consultant's understanding of the Scope of Work.
- iv. Include the hourly rates of all staff that will charge directly to the project.

10. Exceptions to this RFP

The Consultant shall certify that it has fully read the RFP and takes no exceptions to this RFP including, but not limited, to the Consultant Services Agreement (attached). If the Consultant does take exception(s) to any portion of the RFP, the specific portion of the RFP to which exception is taken shall be identified and explained.

The District will require a professional liability insurance verification for coverage of not less than \$1,000,000.00.

IV. EVALUATION CRITERIA

The evaluation criteria and the respective weights that will be given to each criterion are as follows:

1.	Executive Summary	10%
2.	Project Description	25%
3.	Identification of Consultant	5%
4.	Project Organization and Experience	25%
5.	Past Performance, Including Cost and Schedule Control	20%
6.	Firm's Local Experience	5%
7.	Creative Alternatives	5%
8.	Proposed Fee	5%

V. SELECTION PROCESS

The District will enter into negotiations with the top ranked firm. At this time, the District contemplates the use of a <u>Time and Material Not to Exceed contract for the services requested</u>. Negotiations will cover: scope of work, contract terms and conditions, office arrangements, attendance requirements and appropriateness of the proposed fee.



After negotiating a proposed agreement that is fair and reasonable the General Manager will present the contract to the District's Board for authorization to execute a contract with the most responsive firm.

VI. SELECTION SCHEDULE

The District anticipates that the process for selection of firm and awarding of the contract will be according to the following tentative schedule:

Proposal Due Date	July 10, 2015
Interview (TBD-If Necessary)	TBD
Board of Directors Approval	August 6, 2015
Final Selection and Notification	August 7. 2015

VII. SPECIAL CONDITIONS / ATTACHMENTS

The following documents are included on the CD to provide background for the Groundwater Development Plan:

- Bear Creek Estates Wastewater Facility Discharge Permit Renewal, Order No. 00-043
- 2013 Water and Wastewater Charges Study

VIII. SUBMITTAL REQUIREMENTS

- 1. One (1) executed original marked "ORIGINAL" in red ink and three (3) copies of the Proposal shall be submitted. One single sealed Proposed Fee Estimate marked "FEE ESTIMATE" in red ink shall be submitted separate from the proposal. Emailed proposals will not be accepted. <u>Submit one electronic copy of the proposal in PDF format (no CD,DVD or Thumb Drive)</u>. The Response shall be signed by an individual, partner, officer or officers authorized to execute legal documents on behalf of the Firm.
- 2. The Response Proposal must be received no later than **3:00 p.m.** local time, on or before **July 10**, **2013** at the office of:

San Lorenzo Valley Water District 13060 Highway 9 Boulder Creek, CA 95006

Attn: District Secretary (Holly Morrison)

Failure to comply with the requirements of this RFP may result in disqualification. Questions regarding this RFP shall be submitted in writing to **hmorrison@slvwd.com**.



AGREEMENT FOR PROFESSIONAL SERVICES by and between the SAN LORENZO VALLEY WATER DISTRICT (District) and XXX (Consultant)

PREAMBLE

This agreement for the performance of professional services ("Agreement") is made and entered into on this **XX** day of **XXXX**, **2015** ("Effective Date"), by and between ______. with its principal place of business located at ______ ("Consultant") and the San Lorenzo Valley Water District, a California County Water District, with its principal place of business located at 13060 Highway 9, Boulder Creek, CA 95006("District"). District and Consultant may be referred to individually as a "Party" or collectively as the "Parties" or the "Parties to this Agreement."

RECITALS

- A. District desires to secure professional services as described in Exhibit A, entitled "Scope of Services"; for BEAR CREEK ESTATES SANITARY SYSTEM FINANCIAL STUDY
- **B.** Consultant represents that it possesses the professional qualifications and expertise to provide such services and
- **C.** The Parties have specified herein the terms and conditions under which such services will be provided and paid for.

The Parties agree as follows:

AGREEMENT PROVISIONS

1. SCOPE OF SERVICES

Except as specified in this Agreement, Consultant shall furnish all technical and professional services, including labor, material, equipment, transportation, supervision and expertise (collectively referred to as "Services") to satisfactorily complete the work required by District at its own risk and expense. Services to be provided to District are more fully described in Exhibit A, entitled "Scope of Services.". All of the exhibits referenced in this Agreement are attached and incorporated by this reference.

2. TERM OF AGREEMENT

Consultant shall provide the services under the requirements of this Agreement commencing upon the date of execution of this Agreement by the parties. Consultant shall complete services within the time limits set forth in Scope of Services or as mutually determined in writing by Parties.

3. RESPONSIBILITY OF CONSULTANT

Consultant shall be responsible for the quality, technical accuracy, and coordination of services furnished by it under this Agreement as outlined in Exhibit A. Consultant will endeavor to provide services in a manner consistent with the level of care and skill ordinarily exercised by other professionals providing the same service in the same locale. Consultant shall be solely responsible to District for the performance of



Consultant, and any of his or her employees, agents, subcontractors, or suppliers, under these Agreement Documents.

4. RESPONSIBILITY OF DISTRICT

- A. District has established a budget for professional services including all costs as outlined in Exhibits A and B. The District Manager, or designee, shall be District's authorized representative and will ensure all required budget, purchase orders, service orders and any other internal documentation necessary to comply with the terms of this Agreement are properly and timely prepared in order to enable Consultant to commence and continue services according to terms of the Agreement.
- B. On behalf of District, the District Manager, or designee, shall be District's authorized representative in the interpretation and enforcement of all work performed in connection with this Agreement. The District Manager, or designee, shall render decisions in a timely manner pertaining to documents submitted by Consultant in order to avoid unreasonable delay in the orderly and sequential progress of Consultant's services. Consultant shall promptly comply with instructions from District Manager or designee. The District Manager will ensure all required budget, purchase orders, service orders and any other internal documentation necessary to comply with the terms of this agreement are properly and timely prepared in order to enable Consultant to continue services according to the terms of this Agreement.

5. PAYMENT OF COMPENSATION

- A. In consideration for Consultant's performance of services, District shall pay Consultant for all services rendered by Consultant pursuant to Consultant's Standard Rate Schedule, the current version of which is outlined in Exhibit B, "Services Fee Schedule." Payments made by District under this Agreement shall be the amounts charged for Services provided and billed by Consultant, subject to verification by District, pursuant to the standard rates set forth in the "Services Fee Schedule" attached as Exhibit B. Consultant may begin services prior to the effective date of this agreement at its own risk, with the understanding that, upon District approval, District may choose to compensate consultant for services performed prior to authorization by District's Board of Directors, with the limits of the District Manager's authority.
- B. Consultant shall bill District on a monthly basis for services provided by Consultant during the preceding month, subject to verification by District. Payment to Consultant for services will be made within thirty (30) days of date of Consultant invoice.
- **C.** Compensation for the services hereunder shall be capped at **\$ XX** unless changed in writing by District.

6. RIGHT TO TERMINATION

Both parties reserve the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days written notice to the other party. As of the date of termination, Consultant shall immediately cease all services hereunder, except such as may be specifically approved by both Consultant and District's authorized representative. Consultant shall be entitled to compensation for all services rendered



prior to termination and for any services authorized by the authorized representative thereafter.

7. NO ASSIGNMENT OF AGREEMENT/SUCCESSORS IN INTEREST

This Agreement is a contract for professional services. District and Consultant bind themselves, their partners, successors, assigns, executors and administrators to all covenants of this Agreement. Except as otherwise set forth in this Agreement, no interest in this Agreement shall be assigned or transferred, either voluntarily or by operation of law, without the prior written approval of both parties.

8. NO AGENCY

Consultant shall not have authority, expressed or implied, to act on behalf of District as an agent, or to bind District to any obligations whatsoever, unless specifically authorized in writing by the District Manager or authorized representative.

9. NO THIRD PARTY BENEFICIARY

This Agreement shall not be construed to be an Agreement for the benefit of any third party or parties and no third party or parties shall have any claim or right of action under this Agreement for any cause whatsoever.

10. CONSULTANT IS AN INDEPENDENT CONSULTANT

It is agreed that in performing the work required under this Agreement, Consultant and any person employed by or contracted with Consultant to furnish labor and/or materials under this Agreement is neither an agent nor employee of District. Consultant has full rights to manage its employees subject to the requirements of the law.

11. CONFIDENTIALITY OF MATERIAL

All memoranda, specifications, plans, data, drawings, descriptions, documents, discussions or other information received by or for Consultant and all other written information submitted to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant and shall not, without the prior written consent of District, be used for any purposes other than the performance of the services nor be disclosed to an entity not connected with performance of the services. Nothing furnished to Consultant, which is otherwise known to Consultant or becomes generally known to the public or is of public record, shall be deemed confidential.

12. RIGHT OF DISTRICT TO INSPECT RECORDS OF CONSULTANT

District, through its authorized employees, representatives or agents shall have the right during the term of this Agreement and for three (3) years from the date of final payment for goods or services provided under this Agreement, to audit the books and records of Consultant for the purpose of verifying any and all charges made by Consultant in connection with Consultant's compensation under this Agreement, including termination of Consultant. Consultant agrees to maintain sufficient books and records in accordance with generally accepted accounting principles to establish the correctness of all charges submitted to District. District shall disallow any expenses not so recorded.

Consultant shall submit to District any and all reports concerning its performance under this Agreement that may be requested by District in writing. Consultant agrees to assist



District in meeting District's reporting requirements to the State and other agencies with respect to Consultant's services hereunder.

13. CORRECTION OF SERVICES

Consultant will be given the opportunity and agrees to correct any incomplete, inaccurate or defective services at no further cost to District, when such defects are due to the negligence, errors or omissions of Consultant.

14. FORCE MAJEURE

The time for performance of services to be rendered pursuant to this Agreement may be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of Consultant, including, but not restricted to, acts of God or of any public enemy, acts of the government, fires, earthquakes, floods, epidemic, quarantine restrictions, riots, strikes, freight embargoes and unusually severe weather if Consultant shall, within ten (10) days of the commencement of such condition, notify the District Manager who shall thereupon ascertain the facts and extent of any necessary delay, and extend the time for performing services for period of enforced delay when and if the District Manager's determination shall be final and conclusive upon the parties to this Agreement.

15. FAIR EMPLOYMENT

Consultant shall not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, condition of physical handicap, religion, ethnic background, or marital status, in violation of state or federal law.

16. HOLD HARMLESS/INDEMNIFICATION

Consultant agrees, to the fullest extent permitted by law, to indemnify and hold District, its Board members, officers, and employees, harmless from any damage, liability or cost (including reasonable attorneys' fees and costs of defense) to the extent caused by Consultant's negligent acts, errors or omissions in the performance of professional services under this Agreement and those of his or her sub-consultants or anyone for whom Consultant is legally liable.

Consultant is not obligated to indemnify District in any manner whatsoever for District's own negligence.

17. INSURANCE REQUIREMENTS

- **A.** Without limiting Contractor's indemnification of District, and prior to commencing any Services required under this Agreement, Consultant shall purchase and maintain in full force and effect, at its sole cost and expense, the following insurance policies with at least the indicated coverages, provisions and endorsements:
 - Commercial General Liability Policy (bodily injury and property damage): Policy limits are subject to review, but shall in no event be less than, the following:

\$1,000,000 Each Occurrence

\$1,000,000 General Aggregate

\$1,000,000 Products/Completed Operations Aggregate



\$1,000,000 Personal Injury

- 2. Workers' Compensation Insurance Policy as required by statute and employer's liability with limits of at least one million dollars (\$1,000,000) policy limit Bodily Injury by disease, one million dollars (\$1,000,000) each accident/Bodily Injury and one million dollars (\$1,000,000) each employee Bodily Injury by disease.
- 3. Comprehensive Business Automobile Liability Insurance Policy with policy limits at minimum limit of not less than one million dollars (\$1,000,000) each accident using. Liability coverage shall apply to all owned, non-owned and hired autos.
- 4. Professional Liability or Errors and Omissions Insurance as appropriate shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of Consultant. Coverage shall be in an amount of not less than one million dollars (\$1,000,000) per claim/aggregate.

B. EVIDENCE OF COVERAGE

Prior to commencement of any services under this Agreement, Consultant, shall, at its sole cost and expense, purchase and maintain not less than the minimum insurance coverage with endorsements and deductibles indicated in this Agreement. Consultant shall file with District all certificates for required insurance policies for District's approval as to adequacy of insurance protection.

18. AMENDMENTS

It is mutually understood and agreed that no alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the Parties and incorporated into this Agreement. Such changes, which are mutually agreed upon by District and Consultant, shall be incorporated in amendments to this Agreement.

19. WAIVER

No term or provision hereof shall be deemed waived and no default or breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented to such breach. The consent by any party to, or waiver of, a breach or default by the other shall not constitute a consent to, waiver of, or excuse for, any other different or subsequent breach or default.

The failure of either party to insist upon or enforce strict conformance by the other party of any provision of this Agreement or to exercise any right under this Agreement shall not be construed as a waiver or relinquishment of such party's right unless made in writing and shall not constitute any subsequent waiver or relinquishment.

20. INTEGRATED DOCUMENT - TOTALITY OF AGREEMENT

This Agreement embodies the Agreement between District and Consultant and its terms and conditions. No other understanding, agreements, conversations or otherwise, with any officer, agent or employee of District prior to execution of this Agreement shall affect or modify any of the terms or obligations contained in any documents comprising this



Agreement. Any such verbal agreement shall be considered as unofficial information and in no way binding upon District.

Agreement Documents comprise the entire Agreement between District and Consultant concerning the work to be performed for this project. Agreement Documents are complementary; what is called for in one of the Agreement Documents is binding as if called for by all of them.

21. SEVERABILITY CLAUSE

In the event any one or more of the provisions contained herein shall, for any reason, be held invalid, illegal or unenforceable in any respect, it shall not affect the validity of the other provisions, which shall remain in full force and effect.

If any part of this agreement is for any reason held to be excessively broad as to time, duration, geographical scope, activity or subject, it will be construed, by limiting or reducing it, so as to be enforceable to the extent reasonably necessary for the protection of the parties.

22. NOTICES

All notices to the Parties shall, unless otherwise requested in writing, be sent to District addressed as follows:

Brian C. Lee District Manager San Lorenzo Valley Water District 13060 Highway 9 Boulder Creek, CA 95006

And to Consultant addressed as follows:

XXX

23. STATUTES AND LAW GOVERNING AGREEMENT

This Agreement shall be governed and construed in accordance with the statutes and laws of the State of California.

24. WAIVER OF CONSEQUENTIAL DAMAGES

District and Consultant mutually agree to waive all claims of consequential damages arising from disputes, claims, or other matters relating to this Agreement.

25. DISPUTE RESOLUTION

A. Unless otherwise mutually agreed to by the Parties, any controversies between Consultant and District regarding the construction or application of this Agreement, and claims arising out of this agreement or its breach, shall be submitted to mediation within thirty (30) days of the written request of one Party after the service of that request on the other Party.



- **B.** The Parties may agree on one mediator. If they cannot agree on one mediator, the Party demanding mediation shall request that the Superior Court, State of California, County of Santa Cruz appoint a mediator. The mediation meeting shall not exceed one day or eight (8) hours. The Parties may agree to extend the time allowed for mediation under this Agreement.
- **C.** The costs of mediation shall be borne by the Parties equally.
- **D.** Mediation under this section is a condition precedent to filing an action in any court. In the event any legal action or proceeding is commenced to interpret or enforce the terms of, or obligations arising out of this Agreement, or to recover damages for the breach thereof, the Party prevailing in any such action or proceeding shall be entitled to recover from the non-prevailing Party all reasonable attorneys' fees, costs and expenses incurred by the prevailing Party.

26. VENUE

In the event that suit shall be brought by either Party, the Parties agree that the venue shall be exclusively vested in the state courts of the State of California, County of Santa Cruz, or where otherwise appropriate, exclusively in the United States District Court, Northern District of California, San Jose.

27. SIGNATURES

SAN LORENZO VALLEY WATER DISTRICT,

The individuals executing this Agreement represent and warrant that they have the right, power, legal capacity and authority to enter into and to execute this Agreement on behalf of the respective legal entities of Consultant and District.

The Parties acknowledge and accept the terms and conditions of this Agreement as evidenced by the following signatures of their duly authorized representatives. It is the intent of the Parties that this Agreement shall become operative on the Effective Date.

Brian C. Lee District Manager	XXX	
San Lorenzo Valley Water District		
Approved as to form:		
Marc G. Hynes, District Counsel		





California Regional Water Quality Control Board

Central Coast Region



Winston H, Hickox Secretary for "mental cetton

Internet Address: http://www.swrch.ca.gov/~rvqcb3
81 Higuera Street, Suite 200, San Luis Obispo, California 93401-5427
Phone (805) 549-3147 • FAX (805) 543-0397

July 25, 2000

RECEIVED

JUL 2 8 2000

Mr. James Mueller San Lorenzo Valley Water District 13060 Highway 9 Boulder Creek, CA 95006

Dear Mr. Mueller:

RENEWAL OF BEAR CREEK ESTATES WASTEWATER FACILITY, SANTA CRUZ COUNTY, ORDER NO. 00-043

Enclosed is an updated copy of Waste Discharge Requirements Order No. 00-043, for Bear Crank Estates Wastewater Facility, Santa Cruz County. This Order was adopted by the Board at July 14, 2000 meeting.

If you have any questions or comments please call Howard Kolb at 805/549-333 For Chris Adair 805/542-4629 of my staff.

5/2-362-12-- J. 15 Sincerely, C/

Enclosure

s:/northern/howard/permits/wdr/san lorenzo valley water dist, bear creek estates/final renewal bear creek Discharger File: San Lorenzo Valley Water DistrictBear Creek Estates

California Environmental Protection Agency



RWQC\$-6 (1/94) .



re of Cal/EPA's objectives is to provide superior levels of customer service. Your feedback telling us what is going well and at needs improvement is essential to our success in our efforts to better serve you. Please take a moment to respond to sfollowing questions.

Winston H. Hickor, Secretary for Environmental Protection

SERVICE PROVIDER: Regional Water Quality Control Board (San Luls Oblspo)				
What was the nature of your contact with us? (Please check only one box)				
☐ General Information ☐ ☐ Permitting/Licensing Assistance ☐] Problem Resolution] Registration Assistance	☐ Technical Assistance ☐ Other:		
Staff was courteous and helpful. Staff provided complete, accurate info to you. A timely response was provided. My overall experience was positive. Plasse complete the permittin The regulations were understandable The application instructions were understandable. The permitticense/registration terms conditions were understandable.	ormation section balow if your contact willing assistance;	Digagrae Digagrae		
 Please Indicate any staff person you would like 	ke to commend:	Namo(s)		
o Comments:				
If you feel we fell short in meeting your service person involved and the date the incident occurrence.	ce expectations, please describe the scurred.	ituation, including name of the staff		
 As a result of your experience with us, what see 	ervice-related improvements can your	recommend?		

STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 81 Higuera Street, Suite 200

San Luis Obispo, California 93401-5427

WASTE DISCHARGE REQUIREMENTS ORDER NO. 00-043 Waste Discharger Identification No. 3 440107001

FOR SAN LORENZO VALLEY WATER DISTRICT, BEAR CREEK ESTATES WASTEWATER TREATMENT FACILITY, SANTA CRUZ COUNTY

The California Regional Water Quality Control Board, Central Coast Region (hereinafter called the Board) finds that:

SITE OWNER AND LOCATION

- 1. On January 27, 2000, James A. Mueller, San Lorenzo Valley Water District (SLVWD) District Manager, filed a Report of Waste Discharge. The report was filed on behalf of Bear Creek Estates Wastewater Treatment for authorization to continue Facility discharging treated domestic wastewater within the San Lorenzo River sub-basin.
- 2. San Lorenzo Valley Water District (hereafter Discharger), 13060 Highway 9, Boulder Creek, owns and operates a wastewater treatment facility. The facility includes collection lines and a septic-tank/leachfield system. located in Santa Cruz County along Bear Creek Road approximately 2 1/2 miles northeast of the community of Boulder Creek as shown on Attachment "A" of this Order.

PURPOSE OF ORDER

3. The primary objectives of this order are to: 1) Permit the discharge of treated domestic wastewater; 2) Review and revise discharge limits; and 3) Review and revise a discharge monitoring program to evaluate the impact to water quality.

SITE/FACILITY DESCRIPTION

Discharge Type

 The facility is designed to treat and dispose domestic wastewater from the Bear Creek Estates Subdivision, Units 3, 4, and 5.

Design and Current Capacity

- 5. The facility treatment system consists of two single-chambered septic tanks in series, each having a liquid volume of approximately 16,800 gallons (total capacity of approximately 33,600 gpd).
- 6. Septic tank effluent is alternately discharged among five leachfields.
- 7. The facility is designed to treat an average dry weather flow of 12,000 gallons per day gpd and a peak wet weather flow of 32,500 gpd.
- 8. The system treats and disposes up to 16,500 gallons-per-day (gpd) of domestic wastewater.

Geology

9. The leachfield disposal area is located on approximately 2.1 acres of sloping (5-30%) topography consisting of silty/clay soils underlain by silistone and sandsione.

Surface and Groundwater

- Bear Creek, a tributary to San Lorenzo River, flows around the eastern portion of the disposal area. The edge of the leachfield disposal area is over 100 feet from the creek.
- 11. Depth to ground water was measured during wet weather at a depth of 12 feet and generally migrates in a southerly direction. Ground water in the vicinity of the discharge has the following average concentrations based on results of ground water samples collected from March 1986 to September 1994:

Ground water samples collected from December 1991 to December 1999 have the following average concentrations:

Constituent Total dissolved solids Sodium Chloride Total nitrogen Nitrate as NO3	Concentration 503 mg/l 95 mg/l 36 mg/l 7.4 mg/l 1.4 mg/l
--	---

12. Storm water flows over the leachfield area and into Bear Creek. Because the flow is less than one million gpd, the facility is not required to have a storm water pollution prevention plan.

Monitoring and Reporting Program (MRP)

The MRP requires effluent monitoring, ground water monitoring, receiving water monitoring, leachfield/seep monitoring, and system performance monitoring.

BASIN PLAN

 The Water Quality Control Plan, Central Coastal Basin (Basin Plan), was adopted by the Board on November 17, 1989, and approved by

- the State Water Resources Control Board on August 16, 1990. The Regional Board approved amendments of the Plan on February 11, 1994 and September 8, 1994. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters. BP
- Present and anticipated beneficial uses of Bear Creek that could be affected by the discharge include: BP
 - a. Domestic and municipal supply;
 - b. Agricultural supply;
 - c. Ground water recharge;
 - d. Industrial service supply;
 - e. Water contact recreation;
 - f. Non-contact water recreation;
 - g. Wildlife habitat;
 - h. Cold fresh-water habitat;
 - i. Fish migration;
 - j. Fish spawning
 - k. Preservation of Biological Habitats of Special Significance;
 - I. Rare, Threatened, or Endangered Species;
 - m. Fresh Water Replenishment and,
 - n. Commercial and Sport Fishing.
 - 15. Present and anticipated uses of ground in the vicinity of the discharge include: \hat{H}^{P}
 - a. Domestic supply;
 - b. Agricultural supply;
 - c. Industrial process supply; and,
 - d. Industrial service supply.
 - 16. The San Lorenzo Wastewater Management Plan (WWMP), adopted by Santa Cruz County Board of Supervisors, was approved by the Regional Board on April 5, 1995 as Resolution 95-04. The WWMP includes findings and recommendations resulting from investigation of elevated nitrate levels in surface water and groundwater in the San Lorenzo River watershed. The WWMP recommends the Regional Board require nitrogen control measures in the issuance of new or revised waste discharge requirements. The WWMP's

- goal is for at least 50 % reduction in nitrogen from onsite disposal systems. BP
- This order requires 50 % reduction of nitrogen in effluent, consistent with Resolution No. 95-04. BP
- The surface water quality objectives specified in the Basin Plan for the San Lorenzo River above Bear Creek, are: BP

Analyte	Value	Units
Total Dissolved Solids	400	nıg/l
Sodium	50	mg/l
Chloride	60	mg/l
Boron	0.2	nıg/l
Sulfate	80	mg/l

 The range of median ground water quality objectives in the San Lorenzo Sub-Basin, as specified in the Basin Plan, are reported as follows: BP

Analyte	Range	Units
Total Dissolved Solids	100-250	mg/l
Sodium	10-20	mg/l
Chloride	20-30	mg/i
Nitrate (as N)	1-5	mg/l .
Sulfate	10-50	ing/l

CEQA

20. These waste discharge requirements are for an existing facility and are exempt from provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) in accordance with Section 15301, Chapter 3, Title 14, of the California Code of Regulations.

EXISTING ORDERS AND GENERAL FINDINGS

- 21. The discharge has been regulated by Waste Discharge Requirements Order No. 95-09, adopted by the Board on March 10, 1995. The discharge from Bear Creek Estates has been regulated by the Board since February 15, 1963.
- 22. Discharge of waste is a privilege, not a right,

- and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
- 23. On March 28, 2000, the Board notified the Discharger and interested agencies and persons of its intent to adopt waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
- 24. In a public hearing on July 14, 2000, the Regional Board heard and considered all comments pertaining to the discharge and found this Order consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, that San Lorenzo Valley Water District, its agents, successors, and assigns, may discharge wastewater at Bear Creek Estates Wastewater Treatment Facility providing compliance is maintained with the following:

[Note: Other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph £.3. of this Order.

Throughout the Order superscripts (BP) are provided to indicate requirements taken from the Basin Plan. Requirements not referenced are based on staff's professional judgment.]

PROHIBITIONS

 Discharge of wastewater to the treatment system from other than Bear Creek Estates Units 3, 4, and 5, is prohibited.

- Discharge of wastewater is prohibited outside of the leachfield disposal area shown on Attachment "A".
- Discharge of wastewater within 100 feet of Bear Creek is prohibited.
- Wastewater on the soil surface of the leachfield disposal area is prohibited.
- Bypass of the collection and treatment systems and discharge of untreated or partially treated wastes directly to the leachfield disposal area is prohibited.

SPECIFICATIONS

Effluent Limitations

- Daily flow averaged over each month shall not exceed 16,500 gallons.
- 2. Effluent discharged to the leachfield shall not have a pH less than 6.5 or greater than 8.3BP.

Receiving Water Limitations

3. The discharge shall not cause a statistically significant increase in fecal coliform concentration in Bear Creek. Compliance is evaluated by statistically comparing fecal coliform concentrations in creek samples collected upstream and downstream of the leachfield disposal area.

Ground Water Limitations

- 4. The discharge shall not cause a statistically significant increase of mineral constituent (total dissolved solids, sodium, chloride, and nitrate) concentrations in the ground water. This is determined by statistical analysis of water quality data from the disposal area's monitoring wells.
- 5. The discharge shall not cause ground water to exceed concentrations of chemical constituents limits specified in Title 22, Chapter 15, Article

4, Section 64435, of the California Code of Regulations as listed below BP.

Maximum Contaminant Constituents Level (mg/l)

45 Nitrate (as NO3)

System Operation Specifications

- 6. The wastewater discharge shall be rotated among the five leaching areas at least once every nine months.
- 7. High water alarms, readily audible or visible to maintenance personnel, shall be installed at each raw wastewater pumping station.
- 8. Stand-by power or portable pumps shall be available for use when wastewater-pumping facilities fail.
- 9. The Discharger currently has an onsite septic system. To comply with the San Lorenzo Wastewater Management Plan, this system shall be modified to reduce nitrogen levels by a minimum of 50%. The Discharger will comply with the timeline fisted below for system construction:

Completion Date Task

Completion of extended treatment system design

1/1/2002

Installation of extended treatment system

7/1/2003

Submit a technical report detailing optimal system

performance

1/1/2004

Solids/Solid Waste Control

- 10. Solids accumulation in each septic tank shall be measured semi-annually and the appropriate tank cleaned when it appears (a) the bottom of the scum layer will be within 4" of the bottom of the outlet device before the next scheduled inspection or (b) the sludge level will be within 10" of the outlet device before the next scheduled inspection.
- Solids cleaned from tanks shall be disposed of at an approved septage receiving facility.

Stormwater Control

 Extraneous surface drainage shall be diverted away from the treatment system and leachfield disposal area.

Inflow/Infiltration Control

- 13. The Discharger shall develop and implement an Infiltration/Inflow and Spill Prevention Program (Program). The Program shall be reviewed and updated as necessary by every five years.
- A. The Program shall be developed in accordance with good engineering practices and shall address the following objectives:
 - identify infiltration and inflow sources that may affect treatment facility operation or possibly result in overflow or exceed pump station capacity; and,
 - identify, assign, and implement spill prevention measures and collection system management practices to ensure overflows and contribution of pollutants or incompatible wastes to Discharger's treatment system are minimized.
- B. The District shall make a copy of the Program available upon request to a representative of the Regional Board.
- C. The Program shall provide a description of the collection and transport system, measures used to ensure proper operation, and other

- information necessary to determine compliance with these requirements. The Program shall include, at a minimum, the following items:
- a. A map showing: collection system lines greater than 12 inches, pump stations, standby power facilities, surface water bodies (including discharge point(s) where pump station overflows may occur), storm drain inlets, and date of last revision.
- b. A narrative description of the following:
 - i. Line Flushing and Cleaning: Describe available equipment and 'projected schedule necessary to clean and flush entire system every two years, and assigned staff. Describe coordination with area plumbers to address introduction of incompatible wastes (e.g., root balls, construction debris, etc.) during lateral cleaning and efforts to abate introduction of material into the system, which might cause system backup.
 - ii. Visual System Inspection: Describe visual inspection methods (e.g., televising lines,), rep'acement schedules, frequency, collection system length and assigned staff. Describe results and detail problem areas found. Inspection records shall be retained for five years.
 - Inflow & Infiltration: Describe current iii. and five year projected investigation smoke testing), (e.g., methods frequency, results, and efforts to reduce storm water inflows and sewer line exfiltration. Inspection records shall be retained for five years. Preventive Repair and Replacement; Describe a projected schedule to eliminate sewage conveyance systems determined or structurally projected 10 be compromised. List each project or reach of conveyance to be replaced separately along with proposed start and estimated completion dates.

- iv Pump Station Maintenance: Describe each pump station, location, flow monitoring (wet and dry weather), and the previous year's operational problems and overflows.
- v. Alternate Power Supply for Pump Station Operation: Describe alternate power supply for each pump station within the member entity's system.
- D. Fiscal Resources: The Program shall provide a description of fiscal resources necessary to ensure system operation. The Program shall include, at a minimum, the following items:
 - Fee Structure: Quantification of current and five year projected sewer assessment fees necessary to implement the Program.
 - b. Available Fiscal Resources: Actual and five year projected budget expenses for staffing, operation and replacement of the collection system, including a description of a capital improvement or cinking fund to provide funding for item E.e., below.
- E. Personnel and Training: The Program shall provide a description of staffing available to ensure system operation. The Program shall include, at a minimum, the following items:
 - a. Personnel: Identify specific individuals (and job titles) who are responsible for developing, implementing, and revising the Program. Provide an organizational chart of all staff, position, duties, and training received during the past year. Identify managers and provide a list of contacts with associated phone numbers.
 - Training: List the frequency of training, qualification of each employee. Periodic dates for training shall be identified.
 - . Planning and Reporting: The Program shall

provide a description of planning efforts and reporting of system operation. The Program shall include, at a minimum, the following liems:

- a. Spill Response: Describe a plan, identify employees responsible and duties necessary to implement your response to spills. Identify posting, notification, and spill estimation efforts used.
- b. Annual Reporting: List spills or system problems during the previous year, cleanups, amounts, location, and efforts to ensure similar spills or problems do not reoccur. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken. Inspections and maintenance activities shall be documented and recorded.
- c. Offsite and Onsite Spill Alarms: Describe the current or proposed alarm system (or why unnecessary), central information location, staffing and response times for detecting spills from the system.
- d. Wet Season Manhole Inspections: Describe or propose frequency to conduct inspections to detect line blockage during wet season flows to avoid system overflows, staffing, and available and projected equipment to ensure safe and effective inspections.
- e. Capital Improvement Describe a current and projected work plan.
- f. Five Year Planning Describe projected planning efforts.
- g. 20 Year Planning Describe long term planning efforts.
- G. The District shall provide an annual report, due January 30th of each year, describing program development and permit compliance over the previous twelve months. Report shall be of

sufficient content as to enable the Regional Board to determine compliance with requirements.

PROVISIONS

- Order No. 95-09, "Waste Discharge Requirements for San Lorenzo Valley Water District, Bear Creek Estates, Santa Cruz County" adopted by the Board on March 10, 1995 is hereby rescinded.
- Discharger shall comply with "Monitoring and Reporting Program No. 00-043", and any amendments thereto, as specified by the Executive Officer.
- 3. The Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984; except Item Nos. A.8. and A11.
- 4. Pursuant to Title 23, Division 3, Chapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than January 1, 2009, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

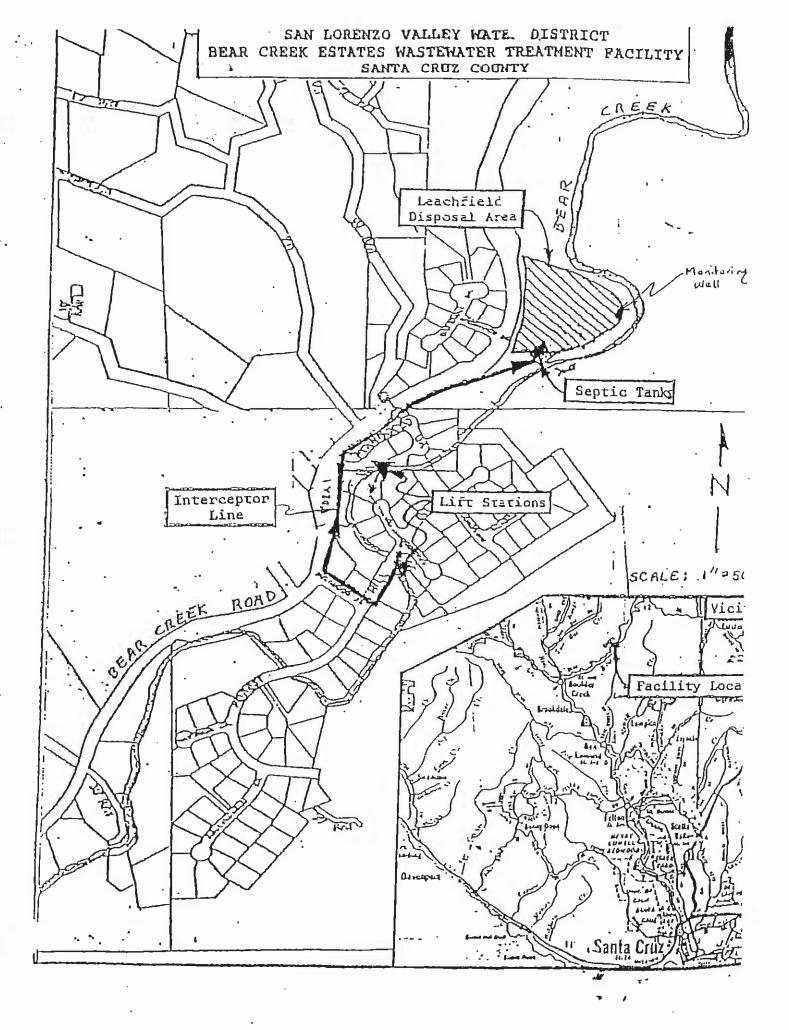
I, Roger W. Briggs, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region, on July 14, 2000.

Madlig E. Hages

HEK/SLR/Permits/Bear Creek/00-043 WDR

Task: 121-01

File: Discharger file; San Lorenzo Valley WD, Bear Creek Estates WWF



STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 81 Higuera Street, Suite 200 San Luis Obispo, CA 93401-5427

MONITORING AND REPORTING PROGRAM NO. 00-043 FOR SAN LORENZO VALLEY WATER DISTRICT BEAR CREEK ESTATES WASTEWATER TREATMENT FACILITY SANTA CRUZ COUNTY

INFLUENT MONITORING1

Representative influent samples shall be collected before treatment and analyzed for the following:

Parameter	Units	Type of Sample	Minimum Measuring Frequency
BOD	mg/l	Grab	Monthly
pH	10	п	11
Organic Nitrogen (N)	14	ı,	* Twice per month
Nitrate (N)	n	п	
Nitrite (N)	u	II .	n
Ammonia (N)	ı,	и	ti .
Total dissolved solids	0	и	Quarterly
Total suspended solids	п	п	14

(N) - All nitrogen data shall be reported as nitrogen.

^{*}Staff requires monitoring twice per month for the Nitrogen series (Organic Nitrogen, Nitrate, Nitrite, and Ammonia) for a minimum of 15 months. After 15 months Discharger shall submit a report analyzing the nitrogen removal efficiency of the wastewater treatment plant. Regional Board staff will evaluate the report to determine the need and frequency for continued nitrogen monitoring.

I Influent monitoring shall begin after installation of enhanced wastewater treatment system. The enhanced wastewater treatment system shall be installed by July 1, 2003.

EFFLUENT MONITORING

Representative effluent samples shall be collected prior to leachfield disposal and analyzed for the following:

Parameter	Units	Type of Sample	Minimum Measuring Frequency
Flow to Leachfield	Gallons per day	Metered	Monthly
BOD	mg/l	Grab	11
pH	41	11	tt .
Organic Nitrogen (N)	n	п	* Twice per month ²
Nitrate (N)	64	11	"
Nitrite (N)	ď	44	II .
Ammonia (N)	"	41	H
Total suspended solids	"	м	Quarterly .
Total dissolved solids	ti .	"	н
Sodium	0	"	U
Chloride	п	и	tt

⁽N) - All nitrogen data shall be reported as nitrogen.

^{*}Staff requires monitoring twice per month for the Nitrogen series (Organic Nitrogen, Nitrate, Nitrite, and Ammonia) for a minimum of 15 months. After 15 months Discharger shall submit a report analyzing the nitrogen removal efficiency of the wastewater treatment plant. Regional Board staff will evaluate the report to determine the need and frequency for continued nitrogen monitoring.

² Effluent nitrogen monitoring shall be conducted quarterly until the installation of enhanced wastewater treatment system. The additional effluent nitrogen monitoring shall commence once the enhanced wastewater treatment system is installed or July 1, 2003, which ever comes first.

SEPTIC TANK MONITORING

Each septic tank shall be opened and measured for the following items:

Measurement	Units	Type of Measurement	Minlmum Measuring Frequency
Distance of scum layer from bottom of outlet device	Inches	Staff gauge	Semi-Annually (June & Dec.)
Distance of sludge layer from bottom of outlet device	Inches	Staff gauge	Semi-Annually (June & Dec.)

Septic tanks shall be pumped as necessary to ensure proper performance and protection of the leachfield. In the event of a leachfield failure or impending failure, the Executive Officer and the County Environmental Health Department shall be notified immediately. In the event of failure, the area shall be posted to prevent public contact with domestic wastewater.

GROUND WATER MONITORING

The Discharger shall install one monitoring well upgradient and two wells downgradient of the leachfield disposal area. Prior to the installation of monitoring wells, Discharger shall submit a report to the Executive Officer discussing the proposed locations, monitoring well depths, and the technical justification of the proposal. The report shall include an estimated direction of groundwater flow and depth, to accurately position up gradient and down gradient wells. Reports detailing groundwater monitoring well installation and flow must be prepared by a registered professional engineer or hydrogeologist or equivalent professional knowledgeable in hydrogeology and ground water monitoring. The wells shall be installed by January 1, 2001.

The Discharger shall sample monitoring wells in accordance with the following schedule:

Constituent	Units	Type of Sample	Minimum Sampling and Analyzing Frequency
Total Dissolved Solids	mg/l	Grab	Semi-annually (June & Dec)
Sodium	11	li li	11
Chloride	II.	п	11
Organic Nitrogen (N)	\$1	- 11	11
Nitrate (N)	11	и	n
Nitrite (N)	п	п	D
Ammonia (N)	li .	п	11
pH	"	п	11

BEAR CREEK MONITORING

Discharger shall establish two Bear Creek monitoring stations to determine impact of discharge. One station shall be located 100 feet upstream of the leachfield disposal area. The second station shall be located 100 feet downstream of the disposal area. Creek samples from these stations shall be collected and analyzed according to the following:

Constituent	Units	Type of Sample	Minimum Sampling and Analyzing Frequency
Fecal coliform	MPN/100 ml	Grab	Monthly*
Enterococci	и	11	н
Nitrate as N	mg/l	11	В
Total dissolved solids	п	11	16

^{*}Monthly samples shall be collected during the 1st working day of the month. After one year of creek sampling (twelve samples) the Discharger may provide an analysis of coliform monitoring data to determine if a significant change has occurred due to the discharge. If no significant change has occurred, the Discharger may request a reduction in creek monitoring subject to Executive Officer approval.

DISPOSAL AREA INSPECTION

Monthly inspections shall be made of the leachfield disposal area for evidence of surfacing effluent. During the inspection, the level of effluent in each leachfield trench shall be recorded. Notes shall be kept of observations and shall be summarized in the Quarterly Monitoring Reports. In the event of a leachfield failure or impending failure, the Executive Officer and the County Environmental Health Department shall be notified immediately. In the event of failure, the area shall be posted to prevent public contact with domestic wastewater. Repairs shall be made as quickly as possible. To assure compliance with discharge specifications the discharger shall describe which leachfield is in use and when the leachfield was last rotated.

Monthly inspections shall be made of seep areas (along Bear Creek) for evidence of surfacing effluent. Notes shall be kept of observations and shall be summarized in the Quarterly Monitoring Reports. In the event of a surfacing effluent, the Executive Officer and the County Environmental Health Department shall be notified immediately. In the event of failure, the area shall be posted to prevent public contact with domestic wastewater. Repairs shall be made as quickly as possible.

REPORTING

Monthly sampling and inspection results shall be reported quarterly by the 1st day of February, May, August, and November. Semi-annual sampling results shall be submitted with the January and July quarterly reports.

The quarterly reports shall also include a summary of sewage collection or treatment or disposal systems spill(s) during the reporting quarter. At a minimum, the following information shall be reported:

- Location, volume, date, and time of sewage spill, and the number of times spill has occurred at this
 location within the last five years.
- Corrective action(s) taken to stop and mitigate spill and prevent future spills.

If there is no spill during the reporting quarter, a "no sewage spill" statement shall be included in the quarterly report.

All data (weekly, monthly, and semi-annual) shall be submitted to the Board in both hard copy and electronic format. The electronic data submission shall conform to criteria approved by the Central Coast Regional Water Quality Control Board Executive Officer.

ORDERED B

July 14, 2000

Date

HEK/SLR/Permits/Bear Creek/00-043 MRP

Task: 121-01

File: Discharger file;San Lorenzo Valley WD, Dear Creek Estates WWF



FINAL Water and Wastewater Charges Study

Prepared for San Lorenzo Valley Water District, California March 2013



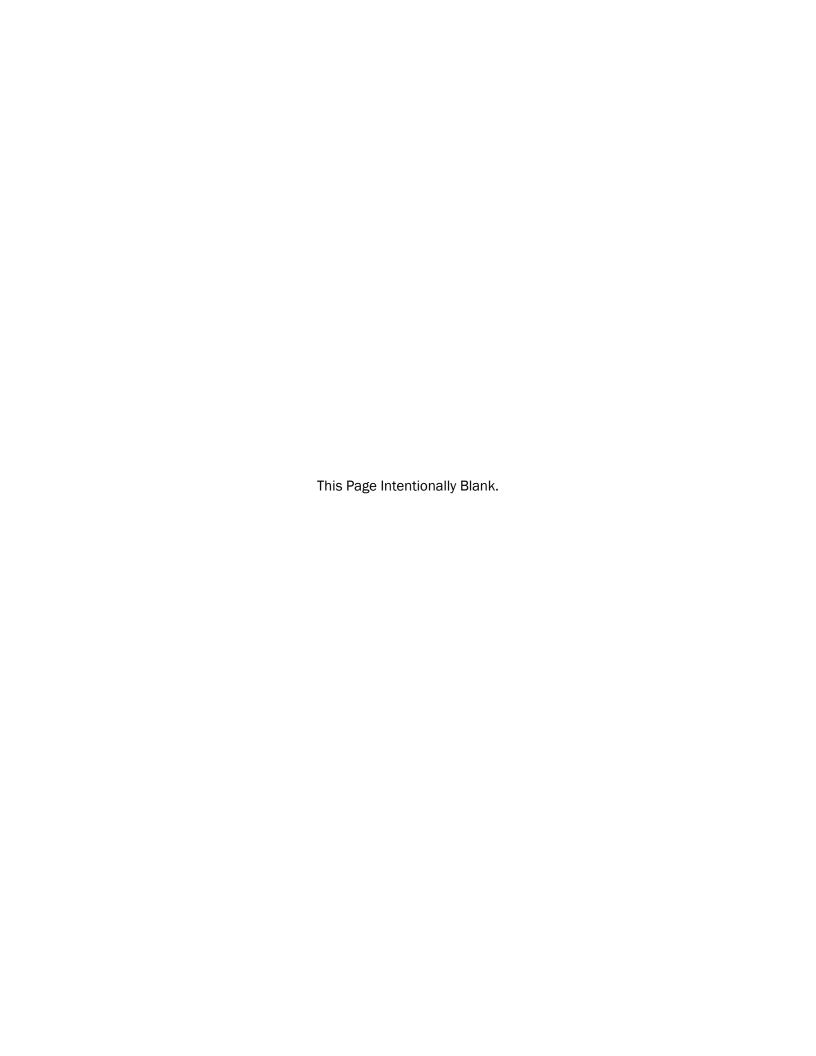


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List of Abbreviations

BOD Biochemical Oxygen Demand

Ccf Hundred Cubic Feet (equal to ~ 748.1 gallons)

CCI Construction Cost Index

CIP Capital improvement program

District San Lorenzo Valley Water District

FY Fiscal year (July 1 to June 30)

ENR Engineering News Record

FY 14 July 1, 2013 to June 30, 2014

gpd gallons per Day

mgd million gallons per day

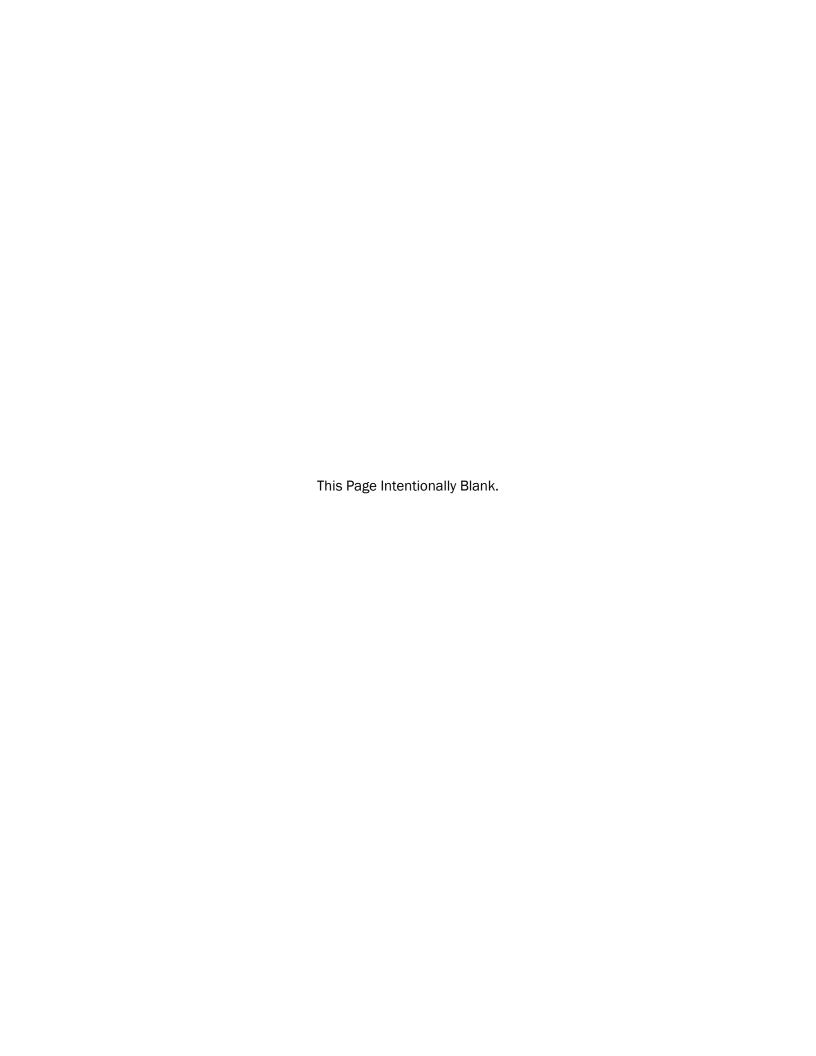
NPDES National Pollutant Discharge Elimination System

OMWC Olympia Mutual Water Company

O&M Operation and maintenance

SLVWD San Lorenzo Valley Water District

TSS Total Suspended Solids



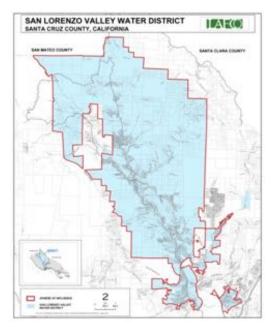
Executive Summary

The precursor to the San Lorenzo Valley Water District (SLVWD or District) was formed in 1941 pursuant to provisions in the California Water Code. The District is located in the mountains of Northern Santa Cruz County in the community of Boulder Creek. It was created to develop a water supply for domestic requirements as well as for fire protection and recreational facilities in the San Lorenzo Valley. The District contains approximately 60 square miles and serves approximately 7,300 water customers and 55 sewer customers. The District is governed by a five person Board of Directors elected to four year terms by registered voters throughout the District's boundaries.

The District has two proprietary funds – the Water Enterprise Fund and the Wastewater Enterprise Fund. The objective of this study is to develop rates that adequately provide for utility operations, capital costs, reserves, and bonded debt, while minimizing the impact on users as much as is reasonably possible.

Water System Description

The District supplies water to the communities of Boulder Creek, Brookdale, Ben Lomond, Zayante, Scotts Valley, Manana Woods and Felton.



The District relies on six surface water sources in the upper watershed, primarily during the wet season, and on several groundwater sources, which tap the Santa Margarita Sandstone and the Lompico aquifers, primarily in the dry season.

The District owns approximately 1,800 acres serving as watershed for its surface water intakes and wells.

The District has four separate water systems: the Northern, the Southern, Felton, and Mañana Woods. Felton is served by surface and spring water. The Northern system is served by both surface water and groundwater. The Southern system and Mañana Woods are currently served only by groundwater.

Key elements of the District's water production, treatment and distribution system are: 1) 8 groundwater wells and pumps with peak capacity of 1.25 million gallons per day (mgd); 2) Surface Water Treatment Plant with peak capacity of 1.5 mgd; 3) 150 miles of water lines, 4) approximately

2000 level indicators, alarms, switches as part of the Supervisory, Control and Data Acquisition (SCADA) system; and 5) the Administrative Headquarters Building.

Wastewater System Description

The District supplies wastewater collection and treatment services to the community of Bear Creek Estates.

Recommended Water Charges and Projected Revenues from Water Charges

Current and FY14 – FY18 recommended quantity charges and basic charges are listed in the tables below. The recommended quantity charges for each rate structure (the current structure and an updated structure using a combination of tier rate structure options) are shown in a table separate from the basic charges. Note that the quantity charges for the updated tier rate structure are projected to produce approximately \$163,000 less (two percent) over the five year period than the quantity charges for the current tier rate structure.

Table ES-1. Current and Recommended Basic Charges								
			R	ecommended				
	Current	FY14	FY15	FY16	FY17	FY18		
Basic Charges, \$/2 months								
Annual Increase, %		13%	13%	9%	9%	9%		
5/8-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
5/8A-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
5/8B-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
5/8C-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
3/4-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
3/4A-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1A-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
1B-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
1F-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
1-1/2-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
1-1/2A-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
1-1/2C-inch	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00		
1-1/2F-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1-1/2G-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
1-1/2S-inch	\$531.36	\$600.00	\$678.00	\$739.00	\$806.00	\$879.00		
2-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
2A-inch	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00		
2G/L-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
3-inch	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00		
4-inch	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00		

		Recommended							
	Current	FY14	FY15	FY16	FY17	FY18			
Current Rate Structure									
Annual Increase, %		13%	13%	8%	8%	8%			
First 10 units	\$2.71	\$3.06	\$3.46	\$3.74	\$4.04	\$4.36			
11 - 40 units	\$3.54	\$4.00	\$4.52	\$4.88	\$5.27	\$5.69			
41 - 100 units	\$4.24	\$4.79	\$5.41	\$5.84	\$6.31	\$6.81			
101 - 200 units	\$4.59	\$5.19	\$5.86	\$6.33	\$6.84	\$7.39			
Over 200 units	\$5.00	\$5.65	\$6.38	\$6.89	\$7.44	\$8.04			
Updated Rate Structure, All Options									
Annual Increase, %		16%	13%	8%	8%	8%			
First 8 units	\$2.71	\$3.14	\$3.55	\$3.83	\$4.14	\$4.47			
9 - 30 units	\$3.54	\$4.11	\$4.64	\$5.01	\$5.41	\$5.84			
31 - 100 units	\$4.24	\$4.93	\$5.57	\$6.02	\$6.50	\$7.02			
Over 100 units	na	\$5.45	\$6.16	\$6.65	\$7.18	\$7.76			
Flat Rate	na	\$3.84	\$4.34	\$4.69	\$5.07	\$5.48			

The recommended water charges are projected to increase revenues by approximately \$9.2 million over the next five fiscal years, FY14 – FY18. The annual amount of revenues from basic and quantity charges, and the cumulative revenues from increases in the water charges, are shown in the figure below.

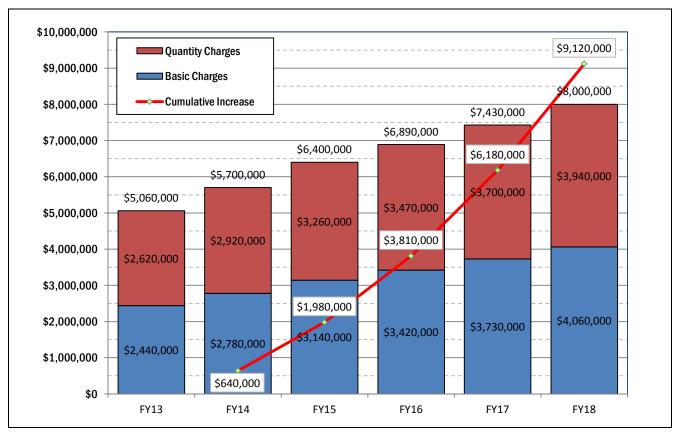
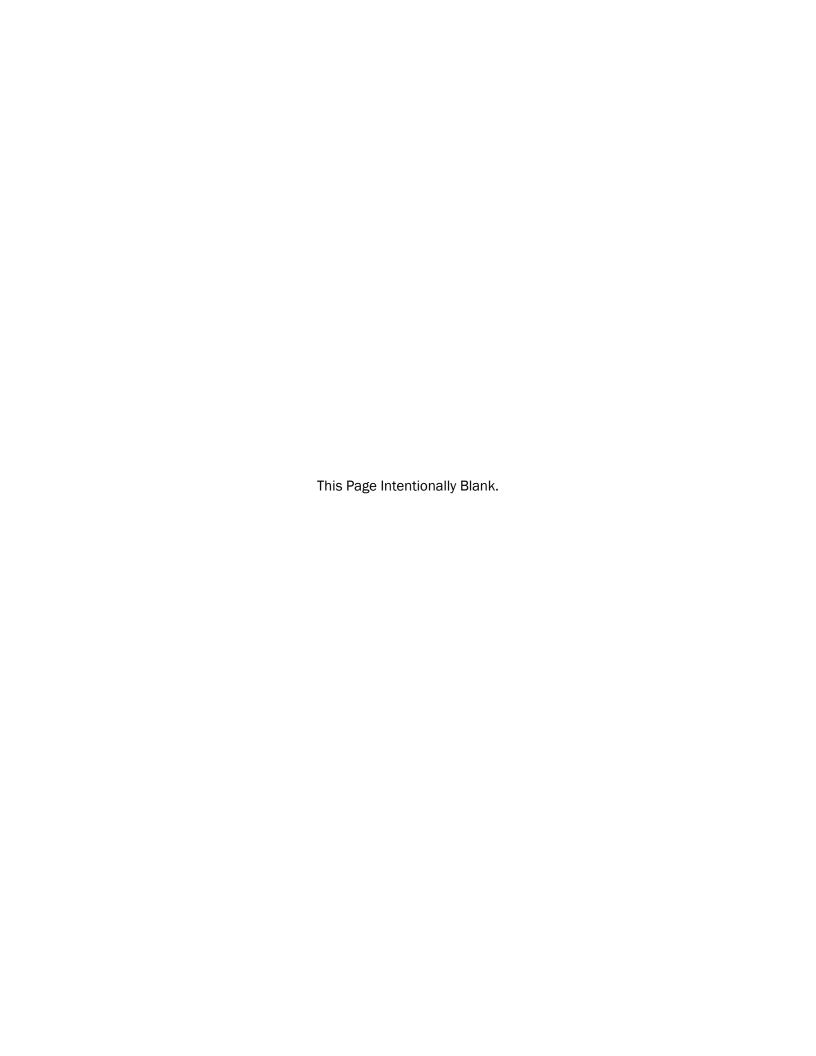


Figure ES-1. Annual Projected Revenues from Basic and Quantity Charges

Recommended Wastewater Charges

The District's current and recommended wastewater charges are shown in the table below.

Table ES-3. Current and Recommended Wastewater Charges								
		Recommended						
Wastewater Charges	Current	FY14	FY15	FY16	FY17	FY18		
Annual Increase, %		15%	15%	15%	15%	3%		
Service Charge, \$/2 months	\$298	\$343	\$394	\$453	\$521	\$537		



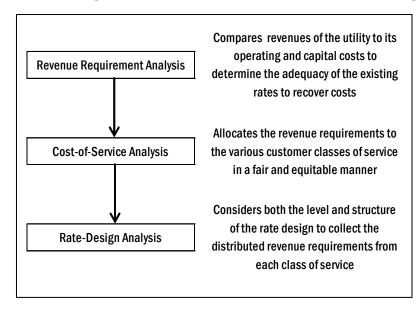
Section 1

Introduction

The District's meter and quantity rates (for the water utility) and sewer rates (for the wastewater utility) are intended to recover revenues sufficient to adequately fund utility operations, maintenance, and capital replacement expenditures, and meet debt service obligations, while keeping rates as competitive as possible and maintaining a prudent level of reserves.

1.1 Overview of Utility Rate Setting Process

Rate studies classically have three categories of technical analysis – the development of revenue required from rates, the allocation of costs among functional cost categories (cost-of-service analysis) and the design of a rate structure. An overview of the rate-setting analytical steps is shown in Figure 1-1.



The revenue required from rates is net of non-rate revenues (for example interest earned on fund balances and loan disbursements) and other revenues not required from rates (such as revenue from meter turn on/off services). The allocation of costs are structured so that the revenue required from charges is distributed proportionally for each sewer service function in a manner that allows the development of unit costs that are applicable to all customers. The rate structure uses the unit costs as a basis for aggregating costs into rates that are applicable to the various customer classes.

Figure 1-1. Overview of Rate Setting Analytical Steps

This rate study includes only the revenue requirement analysis and rate design analysis steps. The cost-of-service analysis step was not conducted. The cost-of-service design incorporated in the current rates is retained.

1.2 Rate-Making Objectives

There are numerous rate-making objectives that must be considered when developing rates and rate structures.

Revenue sufficiency. Generate sufficient revenue to fund operating costs, capital costs and bonded debt, and maintain adequate reserves.

Revenue stability. Recover revenue from fixed and variable charges that will cover fixed and variable costs (barring water shortages when rationing may be required).

Conservation signal. Reward customer for efficient water use and discourage its waste.

Administrative ease. Enable easy implementation and ongoing administration, including monitoring and updating.

Affordability. Be as affordable as possible while maintaining the utilities sound financial position and credit rating.

Customer acceptance. Be as simple as possible to facilitate customer understanding and acceptance.

Fairness. Provide for each customer class to pay its proportionate share of the required revenue in compliance with legal rate-making requirements.



Economic development. Rates must be competitive with local jurisdictions to retain and attract economic development.

Consideration of water intensive industries and users. Recognize that certain industries and users comprise a critical component of the local and regional community and their constant water demand patterns should be accommodated in the rate structure, not penalized.

1.3 Rates and User Accounts

The District has separate rates and rate structures for its water utility and sewer utility. The District's current water and wastewater rates are shown below in the sidebar.

15.00 17.50

BI-MONTI	HLY BASIC	RATE	S
Meter Size	Basic Charge	1 unit of water =	100 Cubic Feet
		100 Cubic Feet =	748 Gallons
5/8	49.73		
5/8A	82.90	First 10 units =	2.71 a unit
5/8B	166.92	11 - 40 units =	
5/8C	265.68	41 - 100 units =	
3/4	49.73	101 - 200 units =	
3/4A	82.90	Over 200 units =	
1	82.90		
1A	166.92	METER CONNEC	TION FEES
1B	265.68	METER CONNEC	TION PEES
1F	49.73	Meter Size	Charge
1K	49.73	Meter Size	Charge
1.5	166.92	5/8	4966.00
1.5A	265.68	3/4	4966.00
1.5C	829.76	1	9932.00
1.5F	82.90	1.5	19,864.00
1.5G	49.73	2	39,728.00
1.5S	531.36	(
2	265.68	INSTALLATION	N DEPOSIT
2A	498.62		, DEI GOII
2G	82.90	5/8 or 3/4	2500.00
2H	49.73	3/8 01 3/4	2500.00
2L	82.90	Meter Drop In	
3	498.62	5/8	90.00
4	829.76	3/4	110.00
	025170	1	155.00
Surplus Water	49.73	Backflows	500.00
Sewer	298.00	Deposit	75.00
		Establishment Charge	20.00
The above charges	s do not include any	Copies	.15
water	usage.	Special Bill (in advance)	20.00
	9000	Meter Test (in advance)	15.00
		1"	17.50

Each water account has one or more meters and each meter is billed for metered water use at the rates shown (except fire service accounts which are not billed for water use).

The District has 11 categories of user accounts.

- Single Family
- Multiple Family
- Commercial
- Institutional
- Landscape
- Other
- Vacant
- Fire Service
- **Holding Accounts**
- Private Mutuals (Redwood Christian Park, Wildwood Mutual, Wildwood Woodlands, and Forrest Springs)
- Surplus

The meter size assigned to an account is based on the maximum number of dwelling units served. The table below lists the maximum number of Residential Dwelling Units served for each meter size.

Ta	Table 1-1. Water Meter Sizing Standards							
Meter Size	Maximum Number of Residential Dwelling Units Served							
5%-inch or 34-inch	1							
1-inch	2 to 6							
1½-inch	7 to 21							
2-inch	22 to 38							
3-inch	39 to 80							
4-inch	81 to 200							

1.4 Basis for Current Rates

The current rates are based on escalation of previous rates. The escalation method for setting rates has been in use for over 10 years.

1.5 Recent Evaluations of Rates

The District conducted two formal evaluations of water and wastewater rates during the past eight years. Those studies and the rates during 2005 – 2013 are summarized in this section.

1.5.1 2007 Long Term Financial Plan

In January 2007 the District completed a Long Term Financial Plan for its water and wastewater utilities. The District had not yet incorporated the Felton community into its service area. The Plan evaluated

growth in customer accounts, water sales, and operating and capital expenditures over a 50 year period (2005 – 2055) and the impact on reserves. The long term financial plan unified the many separate planning efforts typically conducted by a water enterprise or sewer enterprise. On July 2, 2007, the District increased its water rates 11 percent. On June 1, 2008 wastewater rates were increased to \$240 per year.

San Lorenzo Valley Water District Long Term Financial Plan

1.5.2 2008 Water Rates Update

On September 5th 2008, the District assumed ownership and operation of the Felton water system. The District was also exploring the issuance of additional debt. Water rates were updated to evaluate the impact of the addition of the Felton community and the impact of the issuance of

additional debt. As a result, the District raised the water quantity charges in 2009, 2010 and 2011 by 15%, 10% and 5%, respectively. The water meter charges were increased by 12%, 8% and 10%, respectively, over the same three years. Wastewater rates were increased to \$270 per year in 2010 and to \$298 per year in 2011.

1.5.3 Water Rates 2005 - 2013

Water rates implemented by the District from 2005 - 2013 are listed in the table below. Only the meter charge for a $\frac{5}{6}$ -inch meter is shown; charges for other meter sizes are omitted for clarity.

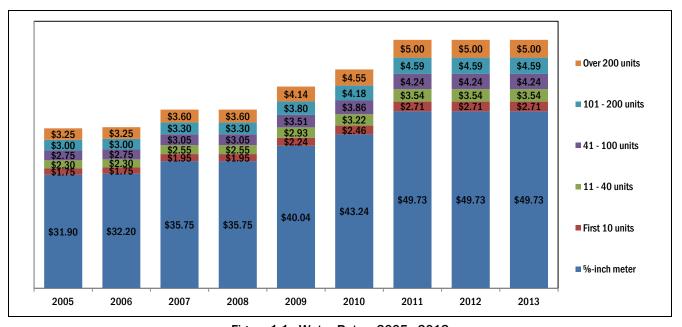


Figure 1-1. Water Rates, 2005 - 2013

Section 2

User Characteristics

The purpose of this section is to summarize the identification of residential and nonresidential users and their corresponding water use characteristics.

2.1 Historic and Projected Water Use

Water use by tier and customer class for calendar years 2010, 2011 and 2012 are shown in Figure 2-1 in units of 100 cubic feet (cf). Figure 2-2 shows projected usage (in 100 cf). For the purpose of projecting water use for FY13 onward, the average of calendar years 2010 and 2011 is used as a starting point for FY13 water use. Water use for FY14 onward includes approximately 4,500 100 cf per year for accounts annexed from the Olympia Mutual Water Company. Monthly water use data for 2010-2012 by customer class and tier is included in Appendix A. Projected water use calculations are included in Appendix B.

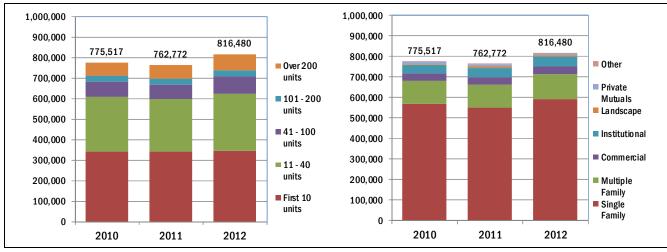


Figure 2-1. Water Use by Tier and Customer Class, 100 cubic feet

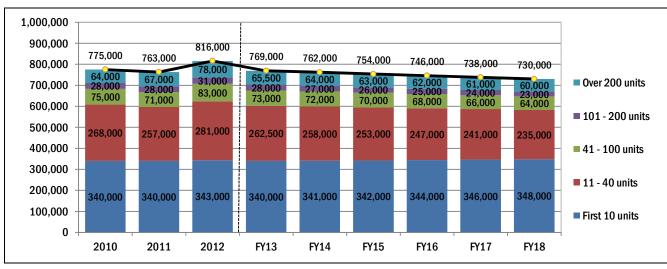


Figure 2-2. Projected Water Use by Tier, 100 cubic feet

2.2 Historic and Projected Number and Type of Meters

The number of water meters by customer class as of February 2013 is shown below in Figure 2-3. Table 2-1 shows projected number of meters by size and type. The number of meters by type and size as of February 2013 is used as the basis for FY13 estimates. Annexation of the Olympia Mutual Water Company is expected to add 51 accounts in FY14 (another 2 accounts incidental to the annexation are included, for a total of 53 accounts). All accounts are assumed to be 5/8-inch meter connections. Fire service meters are excluded from the totals as they do not pay the bimonthly meter charge. Detailed February 2013 meter data showing meters by size, type and customer class is included in Appendix A. calculations of the projected number of meters are included in Appendix B.

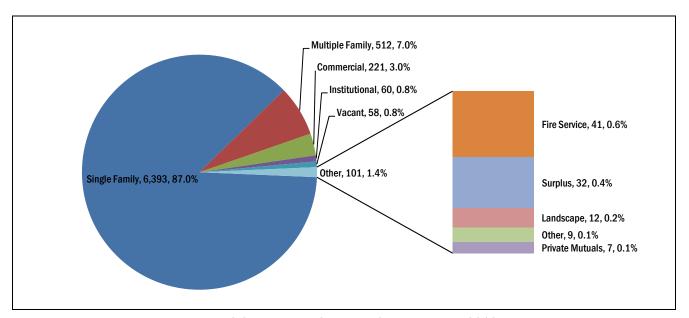


Figure 2-3. Meters by Customer Class, February 2013

	Table 2	2-1. Projected N	umber of Water	Meters by Type		
Meter Size	FY13	FY14	FY15	FY16	FY17	FY18
5/8 *	6,095	6,148	6,148	6,148	6,148	6,148
5/8A	417	417	417	417	417	417
5/8B	10	10	10	10	10	10
5/8C	1	1	1	1	1	1
3/4	405	405	405	405	405	405
3/4A	4	4	4	4	4	4
1	84	84	84	84	84	84
1A	87	87	87	87	87	87
1B	1	1	1	1	1	1
1F/K	115	115	115	115	115	115
1-1/2	23	23	23	23	23	23
1-1/2A	2	2	2	2	2	2
1-1/2C	0	0	0	0	0	0
1-1/2F	2	2	2	2	2	2
1-1/2G	1	1	1	1	1	1
1-1/2\$	1	1	1	1	1	1
2	32	32	32	32	32	32
2A	1	1	1	1	1	1
2G/L	2	2	2	2	2	2
3	3	3	3	3	3	3
4	1	1	1	1	1	11
Total	7,287	7,340	7,340	7,340	7,340	7,340

2.3 Evaluation of Use by Tier and Customer Class

Water use by tier and customer class for calendar years 2010, 2011 and 2012 are shown below in Figure 2-4 as a percent of the total for each year.

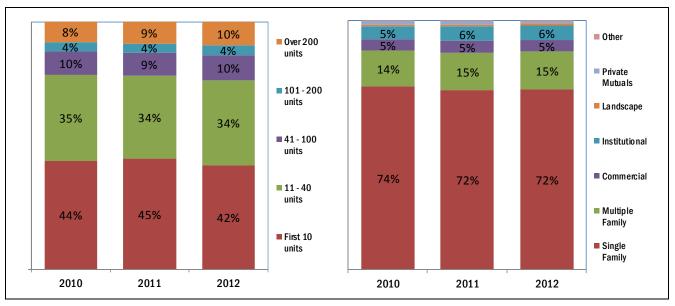


Figure 2-4. Water Use by Tier and Customer Class as a Percent of Total Use

2.3.1 Four-Tier Rate Structure

As shown in the left hand figure in Figure 2-4, the percent of total water use in Tiers 3, 4 and 5 varied between 22 and 24 percent during the three years. The percent of total water use in Tier 4 was constant at 4 percent during the three years.

The small amount of water use in the top three tiers and the minimal amount of water use in Tier 4 provides the basis for our recommendation of combining Tier 4 and Tier 5 into a single tier and charging the weighted average water rate for the two tiers. The new top tier would be for water use "Over 100 units." The change would be revenue neutral with the current tier structure. As a result of the change, some customer bills would decrease and some would increase depending on the weighting of their water use in each tier.

2.3.2 Decline in Average Water Use and Distribution of Water Use Among Tiers

Water use has declined significantly since the prior rate evaluation in 2008. Based on data available during the time of the 2008 evaluation (FY8), average bimonthly water use per account was 21 100 cf. Average bimonthly water use for single family accounts was 17.9 100 cf. Based on projected FY13 water use (which is the average of 2010 and 2011 use), the decline in water use among all customers since FY8 is approximately 17 percent. The calculation of average bimonthly water use is shown below in Table 2-2.

The same rate structure for water use applies to all customer class. As shown below in Table 2-2, within the single family customer class, 53 percent of water use is in Tier 1 and 90 percent of all water use is in the first two tiers. No other customer class has a similar pattern of water use distribution among the tiers (except the combined classes of Surplus, Other and Vacant which have very few accounts).

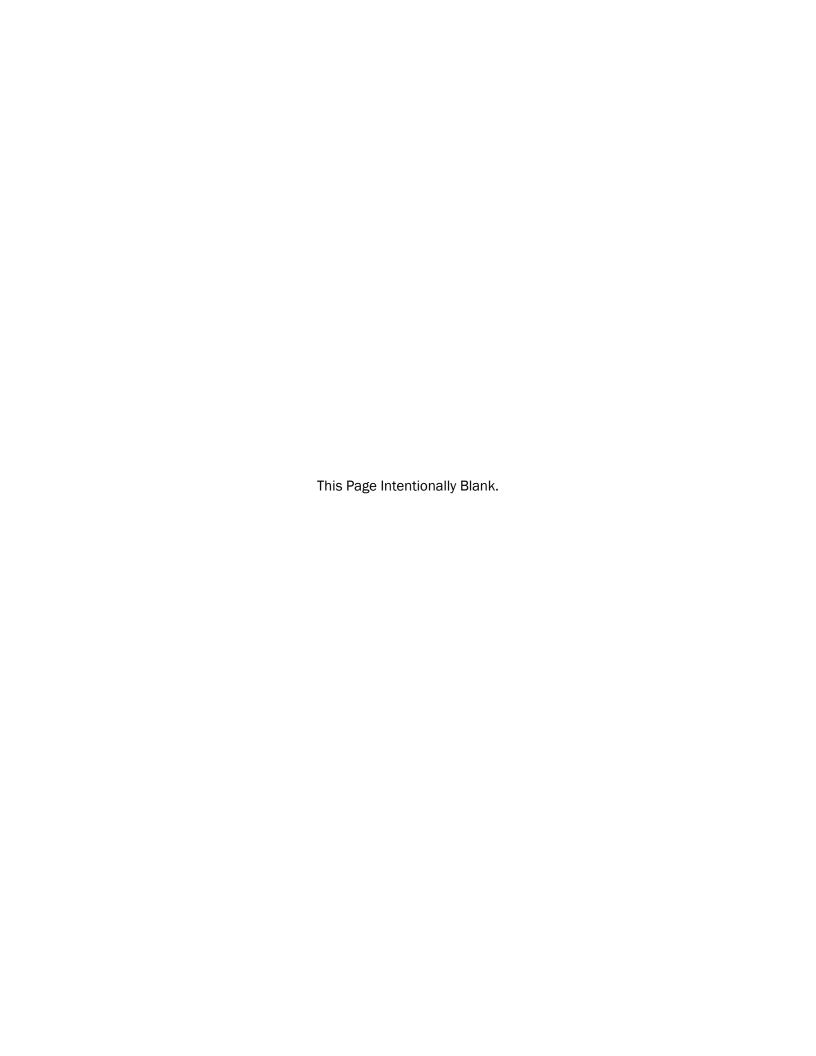
As a result of the radically different water use patterns among customer classes combined with a rate structure that promotes water conservation for the single family customer class, the revenues from quantity charges for each customer class are distributed in radically different patterns.

Table 2	-2. Water Use Pe	er Tier for FY	13 and Com	parison of FY	8 and FY13 A	verage Wate	r Use	
	Single	Multiple				Private	Surplus, Other,	FY13 Projected
	Family	Family	Commercial	Institutional	Landscape	Mutuals	Vacant	Total
Water Sales, 100 cf								
First 10 units	299,414	27,676	9,537	2,492	416	350	395	340,280
11 - 40 units	208,265	34,617	12,777	4,836	754	1,023	310	262,581
41 - 100 units	42,168	12,810	8,705	6,643	805	1,767	79	72,976
101 - 200 units	7,384	5,823	4,117	7,941	578	2,421	4	28,267
Over 200 units	2,919	31,204	1,426	19,889	3,400	6,206	0	65,042
Total	560,150	112,129	36,561	41,800	5,952	11,766	788	769,145
Percent of Total	73%	15%	5%	5%	1%	2%	0.1%	100%
Water Sales, %								
First 10 units	53%	25%	26%	6%	7%	3%	50%	44%
11 - 40 units	37%	31%	35%	12%	13%	9%	39%	34%
41 - 100 units	8%	11%	24%	16%	14%	15%	10%	9%
101 - 200 units	1%	5%	11%	19%	10%	21%	1%	4%
Over 200 units	1%	28%	4%	48%	57%	53%	0%	8%
Total	100%	100%	100%	100%	100%	100%	100%	100%
Average Bimonthly Use, 100 cf								
Meters	6,393	512	221	60	12	7	99	7,304
Bionthly Use, 100 cf								
FY13 Projected	14.6	37	28	116	83	280	1.3	18
FY8 (Prior Study)	17.9	46	39	163	134	341	1.4	21
% change from FY8	-18%	-20%	-29%	-29%	-38%	-18%	-6%	-17%

2.3.3 Average Quantity Charge for Each Customer Class

Because the revenues from quantity charges for each customer class are distributed in radically different patterns, the average quantity charge for each customer class varies significantly. The average quantity charge for each customer class varies from a low of \$3.17 per 100 cf for the Single Family customer class to highs of \$4.51 per 100 cf for the Landscape customer class and \$4.61 per 100 cf for the Private Mutual customer class. Calculations of the average quantity charge for each customer class are shown below in Table 2-3. Revenues by customer class and tier for 2010, 2011 and 2012 used in the calculation of the FY13 projected total are shown in Appendix C.

Table 2-3.	Water Use R	evenues by	Tier and Ave	rage Quantit	y Charge per	Customer Cla	ass	
							Surplus,	FY13
	Single	Multiple				Private	Other,	Projected
	Family	Family	Commercial	Institutional	Landscape	Mutuals	Vacant	Total
Water Sales Revenue								
First 10 units	\$811,412	\$75,002	\$25,845	\$6,753	\$1,126	\$949	\$1,070	\$922,157
11 - 40 units	\$737,258	\$122,544	\$45,229	\$17,119	\$2,669	\$3,620	\$1,097	\$929,537
41 - 100 units	\$178,792	\$54,312	\$36,909	\$28,164	\$3,413	\$7,492	\$333	\$309,416
101 - 200 units	\$33,893	\$26,728	\$18,895	\$36,447	\$2,653	\$11,110	\$18	\$129,743
Over 200 units	\$14,593	\$156,018	\$7,130	\$99,445	\$16,998	\$31,028	\$0	\$325,210
Total	\$1,775,947	\$434,603	\$134,008	\$187,929	\$26,859	\$54,198	\$2,519	\$2,616,064
Percent of Total	68%	17%	5%	7%	1%	2%	0.1%	100%
Water Sales Revenue, %								
First 10 units	46%	17%	19%	4%	4%	2%	42%	35%
11 - 40 units	42%	28%	34%	9%	10%	7%	44%	36%
41 - 100 units	10%	12%	28%	15%	13%	14%	13%	12%
101 - 200 units	2%	6%	14%	19%	10%	20%	1%	5%
Over 200 units	1%	36%	5%	53%	63%	57%	0%	12%
Total	100%	100%	100%	100%	100%	100%	100%	100%
Average Quantity Charge, \$/100 cf								
Customer Classes								
Total Quantity Charge Revenue	\$1,775,947	\$434,603	\$134,008	\$187,929	\$26,859	\$54,198	\$2,519	\$2,616,064
Average Water Use, FY13 Projected	560,150	112,129	36,561	41,800	5,952	11,766	788	769,145
Average Quantity Charge	\$3.17	\$3.88	\$3.67	\$4.50	\$4.51	\$4.61	\$3.20	\$3.40



Section 3

Water Rates

Revenue, expenditures, reserve levels, water rates, and debt coverage for the water utility are summarized in this section.

3.1 Water Operating Revenues and Expenditures

Budgeted and projected operating revenues and expenditures are shown in the table below. Revenues (except revenues from water fees) and expenditures for FY13 are from the District's budget. Projected revenues and expenditures are based on annual escalation rates provided by the District.

	Table 3	-1. Budgeted and	Projected Ope	rating Expend	itures		
ltem		FY13	FY14	FY15	FY16	FY17	FY18
Non-resti	ricted Revenues [1]						
4101	Water Charges for Service	\$5,058,467	\$5,699,884	\$6,399,558	\$6,897,271	\$7,432,051	\$8,007,81
4209	Property Taxes	\$470,000	\$470,000	\$470,000	\$470,000	\$470,000	\$470,00
4308	Charges and Penalties	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,00
4314	Meter Sales	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,00
4319	Lease Fees	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,00
4320	Miscellaneous	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,00
4446	Johnson Property Rentals	\$9,600	\$9,600	\$9,600	\$9,600	\$9,600	\$9,60
Total N	on-restricted Revenues	\$5,641,067	\$6,282,484	\$6,982,158	\$7,479,871	\$8,014,651	\$8,590,41
Restricte	d Revenues [2]						
4429	Sale of Surplus Property	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3.00
4449	Reimbursement for Manana Woods O&M	\$50,000	\$0	\$0	\$0	\$0	
4454	Transfer in From Capital Reserve Fund	\$535,000	\$0	\$0	\$0	\$0	:
Total R	estricted Revenues	\$588,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,00
Operating	g Expenses [3]						
	Personnel	\$2,827,035	\$2,911,846	\$2,999,201	\$3,089,177	\$3,181,853	\$3,277,30
	Materials & Services	\$1,337,000	\$1,377,110	\$1,418,423	\$1,460,976	\$1,504,805	\$1,549,94
	Capital R&R	\$1,290,200	\$1,290,200	\$1,290,200	\$1,290,200	\$1,290,200	\$1,290,20
Total 0	perating Expenditures	\$5,454,235	\$5,579,156	\$5,707,825	\$5,840,353	\$5,976,858	\$6,117,4
Summary	ı						
	stricted Revenues	\$5,641,067	\$6,282,484	\$6,982,158	\$7,479,871	\$8,014,651	\$8,590,41
Restric	ted Revenues	\$588,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3.0
Total R	evenues	\$6,229,067	\$6,285,484	\$6,985,158	\$7,482,871	\$8,017,651	\$8,593,4
Operat	ing Expenditures	\$5,454,235	\$5,579,156	\$5,707,825	\$5,840,353	\$5,976,858	\$6,117,4
Net Inc	come / (Shortfall)	\$774,832	\$706,328	\$1,277,334	\$1,642,518	\$2,040,793	\$2,475,95
Notes:							
1	Water Charges for Service are summarized in Tab	le 3-6. Devenues for other	Non-restricted items	were provided by the	District		
2	Revenues from the Restricted revenue categories			Here provided by the	DISTIPLE.		
3	Personnel and Materials & Services expenditures			for FY14 onward are	escalated as shown	helow:	
J	1 0.00mmon and materials & octytoes expenditures	, 10. 1 1 10 are from the Dist	FY14	FY15	FY16	FY17	FY18
		Personnel	3%	771 <u>5</u> 3%	3%	3%	7710 3
		Materials & Services	3%	3%	3%	3%	3
	Debt Service and Capital Repair and Refurbishme				3 70	3 70	•

3.2 Water System Capital Project Expenditures and Source of Funds

The District's projected Capital Project expenditures are shown in the table below. The source of funds for each Project is also shown. The Capital Project expenditures shown in the table exclude capital expenditures for renewal and replacement which are part of Operating expenditures.

The District's Capital Project expenditures are for three projects:

Capital Improvement Program Projects. The District's CIP identifies fifty-five proposed projects with an aggregate value of \$27,500,000.¹

Campus Development Project. Consolidates the operations of three existing SLVWD facilities on one site. This includes combining five contiguous parcels, remodeling an existing commercial building for a new administration building and adding a new annex, constructing a new operations building, and developing associated parking and storage areas.²

Olympia Annexation and Distribution System Project. Expands SLVWD's service boundary to absorb the existing Olympia Mutual Water Company service area and associated water distribution system improvements. SLVWD proposes to expand and annex its current service boundary by approximately 35.3 acres, which includes the service area of OMWC and four additional parcels. The proposed annexation area is located within SLVWD's Sphere of Influence. The proposed annexation will allow SLVWD to move forward with the OMWC consolidation project and associated water system improvements. The consolidation of the OMWC and SLVWD eliminates OMWC as a separate water system. SLVWD proposes to provide new and replacement water distribution main lines and required appurtenances such as isolation valves and fire hydrants in order to connect the OMWC service area to the existing SLVWD water distribution system in the nearby area.³

Item	FY13	FY14	FY15	FY16	FY17	FY18
Capital Project Expenditures						
Prop 50 Grant Projects	\$400,000	\$1,000,000	\$3,000,000	\$1,000,000	\$0	\$0
Campus Development Project	\$350,000	\$0	\$4,000,000	\$2,000,000	\$0	\$1
Olympia Mutual Annexation	\$10,000	\$0	\$0	\$0	\$0	\$(
Total Capital Project Expenditures	\$760,000	\$1,000,000	\$7,000,000	\$3,000,000	\$0	\$(
Debt Service [1]						
Current	\$1,004,353	\$1,009,483	\$1,004,308	\$999,108	\$896,508	\$896,508
Campus Development			\$464,989	\$464,989	\$464,989	\$464,98
Olympia Mutual Annexation		\$67,356	\$67,356	\$67,356	\$67,356	\$67,350
Total Debt Service	\$1,004,353	\$1,076,839	\$1,536,653	\$1,531,453	\$1,428,853	\$1,428,85
Loan Disbursement						
Debt Service, Campus Development			\$6,000,000			
Olympia Mutual Annexation						
Total Loan Disbursement	\$0	\$0	\$6,000,000	\$0	\$0	\$(
Notes:						
1 Debt service payments are calculated as shown:	Biannual	Number of	Capital	Issuance Cost &	Principal	Biannual
	Rate	Payments	Expenditure	Reserve	Amount	Payment
Campus Development Project	2.000%	40	\$6,000,000	\$360,000	\$6,360,000	\$232,495
Olympia Mutual Annexation	1.125%	40			\$1,080,000	\$33,678

MUNICIPAL FINANCIAL SERVICES

¹ 2010 Capital Improvement Program.

² Initial Study/Mitigated Negative Declaration for the San Lorenzo Valley Water District's Campus Development Project dated November 2010.

³ Initial Study/Mitigated Negative Declaration for the San Lorenzo Valley Water District's Olympia Annexation and Distribution System Project dated February 2012.

3.3 Water Enterprise Cash Flow

Cash flow is shown in the table and figure below. The development of revenues from water charges is described in a subsequent Section 3.6 of the report.

	Tab	le 3-3. Wate	r Enterprise C	ash Flow			
							Five Years
Item	FY13	FY14	FY15	FY16	FY17	FY18	FY14 - FY18
Beginning Balance, July 1 [1]	\$8,598,514	\$7,808,993	\$6,555,617	\$5,361,854	\$2,526,537	\$3,163,742	
Revenues							
Non-restricted Revenues							
Water Charges for Service	\$5,058,467	\$5,699,884	\$6,399,558	\$6,897,271	\$7,432,051	\$8,007,812	\$34,436,577
All Other	\$582,600	\$582,600	\$582,600	\$582,600	\$582,600	\$582,600	\$2,913,000
Restricted Revenues	\$588,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
Total Revenues	\$6,229,067	\$6,285,484	\$6,985,158	\$7,482,871	\$8,017,651	\$8,593,412	\$37,364,577
Operating Expenditures	\$5,454,235	\$5,579,156	\$5,707,825	\$5,840,353	\$5,976,858	\$6,117,458	\$29,221,650
Debt Service	\$1,004,353	\$1,076,839	\$1,536,653	\$1,531,453	\$1,428,853	\$1,428,853	\$7,002,651
Capital Project Expenditures							
Capital Project Expenditures	\$760,000	\$1,000,000	\$7,000,000	\$3,000,000	\$0	\$0	\$11,000,000
Loan Disbursements	\$0	\$0	(\$6,000,000)	\$0	\$0	\$0	(\$6,000,000)
Total Debt Service and Capital Projects	\$760,000	\$1,000,000	\$1,000,000	\$3,000,000	\$0	\$0	\$5,000,000
Interest Earnings [2]	\$200,000	\$117,135	\$65,556	\$53,619	\$25,265	\$31,637	\$293,212
Ending Balance	\$7,808,993	\$6,555,617	\$5,361,854	\$2,526,537	\$3,163,742	\$4,242,481	
Notes:							
1 The Beginning Balance for FY13 is based	on Unrestriced Net	Assets from page	33 of the Financial	Statements and S	Supplementary Inf	ormation June 30,	2012 and 2011.
2 Interest Earnings for FY13 are updated fi	om the District's bu	dget amount to re	eflect a steady decr	rease in yield in rat	es on investment.		
Values for FY14 onward are the previous	years' ending balan	ce times the inter	est rates shown be	low provided by th	e District.		
		<u>FY14</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<i>FY18</i>	
		1.5%	1.0%	1.0%	1.0%	1.0%	

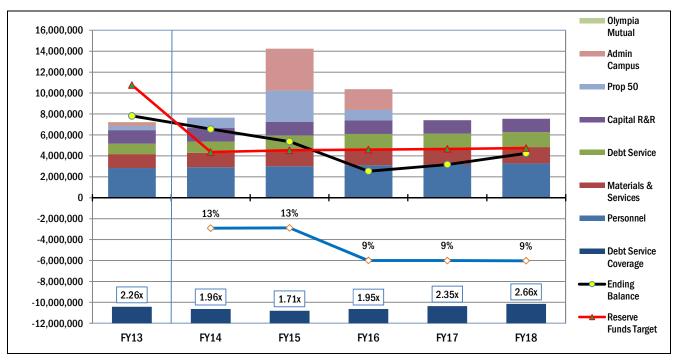


Figure 3-1. Water Fund Cash Flow, Debt Service Coverage and % Increase in Single Family Bills

3.4 Debt Service Coverage

Issuers of public enterprise revenue bonds generally covenant in the bond resolution or indenture to establish rates and charges for the products or services provided by the enterprise in a manner sufficient to provide revenues to pay such amounts and to provide coverage.

Projected coverage ratios and the dollar amount over or under the coverage requirement for a coverage test with Net Revenues equal to 125 percent of the estimated debt service is shown below in Table 3-4.

	Table 3-4. Debt	Service Covera	age Evaluation			
	FY13	FY14	FY15	FY16	FY17	FY18
Debt Service						
Current	\$1,004,353	\$1,009,483	\$1,004,308	\$999,108	\$896,508	\$896,508
Campus Development	\$0	\$0	\$464,989	\$464,989	\$464,989	\$464,989
Olympia Mutual Annexation	\$0	\$67,356	\$67,356	\$67,356	\$67,356	\$67,356
Total Debt Service	\$1,004,353	\$1,076,839	\$1,536,653	\$1,531,453	\$1,428,853	\$1,428,853
Coverage Ratio Required	1.25 x	1.25 x	1.25 x	1.25 x	1.25 x	1.25 x
Net Revenue Required *	\$1,255,441	\$1,346,049	\$1,920,816	\$1,914,316	\$1,786,066	\$1,786,066
* Net revenue required equals 1.25x times to	the principal and interest due	in the next fiscal yea	ar.			
Gross Revenue **						
Non-restricted Revenues	\$5,641,067	\$6,282,484	\$6,982,158	\$7,479,871	\$8,014,651	\$8,590,412
Restricted Revenues	\$588,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Interest on Fund Balance	\$200,000	\$117,135	\$65,556	\$53,619	\$25,265	\$31,637
Total Gross Revenue	\$6,429,067	\$6,402,619	\$7,050,715	\$7,536,490	\$8,042,916	\$8,625,050
** Gross revenue equals revenue from charge	es for services of the Enterpris	se which include rate	s, capacity charges,	interest on the fund	balance and other o	perating revenue.
Net Revenue from Rates ***						
Gross Revenue	\$6,429,067	\$6,402,619	\$7,050,715	\$7,536,490	\$8,042,916	\$8,625,050
Less Operating Expenses						
Personnel	\$2,827,035	\$2,911,846	\$2,999,201	\$3,089,177	\$3,181,853	\$3,277,308
Materials & Services	\$1,337,000	\$1,377,110	\$1,418,423	\$1,460,976	\$1,504,805	\$1,549,949
Net Revenue from Rates	\$2,265,032	\$2,113,663	\$2,633,090	\$2,986,336	\$3,356,258	\$3,797,792
*** Net revenue equals gross revenue less	O&M expenditures.					
Evaluation of Covenant Performance						
Net Revenue from Rates	\$2,265,032	\$2,113,663	\$2,633,090	\$2,986,336	\$3,356,258	\$3,797,792
Net Revenue Required	\$1,255,441	\$1,346,049	\$1,920,816	\$1,914,316	\$1,786,066	\$1,786,066
Amount Over/(Under) Requirement	\$1,009,591	\$767,615	\$712,273	\$1,072,020	\$1,570,192	\$2,011,726
Calculated Coverage Ratio	2.26 x	1.96 x	1.71 x	1.95 x	2.35 x	2.66 x

3.5 Reserve Fund Policy

The District adopted a San Lorenzo Valley Water District Reserve Fund Policy on January 15, 2009 in Resolution No. 17 (08-09). The Introduction in the Reserve Fund Policy reads as follows:

"San Lorenzo Valley Water District recognizes the importance of adopted policies relative to reserves and reserve funds. Written adopted financial policies relative to designated reserves

RESERVE FUND	TARGET LEVEL
Working Capital Reserve Fund.	\$ 750,000
Emergency Reserve Fund.	\$1,000,000
Watershed Property Asset Reserve Fund.	\$6,500,000
Capital Replacement/System Improvement Reserve Fund	\$1,250,000
Equipment Replacement Reserve Fund.	\$ 350,000
Rate Stabilization Reserve Fund	\$ 350,000
Sick/Annual Leave Liability Reserve Fund.	\$ 300,000

and reserve funds have many benefits, and represents a critical element of sound fiscal management. Reserves and reserve funds are prudent fiscal management tools, which are a cornerstone of long-term financial planning. A written and adopted Reserve Fund Policy provides for and facilitates attainment of program and financial goals relative to the prudent accumulation and management of designated reserves and reserve funds. This Reserve Fund Policy was developed to clearly identify specific designated reserves and

reserve funds. It is the intent of this Reserve Fund Policy to clearly identify both reserve fund categories and purposes, and set target levels for reserves that are consistent with the District's mission statement, the uniqueness of the District, and the philosophy of the District's Board of Directors. This policy shall be known and may be cited as the San Lorenzo Valley Water District Reserve Fund Policy."

Projected reserve fund levels based on the Reserve Fund Policy are shown in the table below.

	Table 3-5. Reserve Fund Target Levels													
Reserve Component	Туре	Minimum or	Calculated	FY13	FY14	FY15	FY16	FY17	FY18					
Working Capital Reserve Fund	non-restricted	\$750,000	2 months of O&M expenditures	\$861,000	\$883,000	\$981,000	\$1,002,000	\$1,008,000	\$1,031,000					
Emergency Reserve Fund	restricted	\$1,000,000	board directive	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000					
Watershed Property Asset Reserve Fund	restricted	\$6,500,000	board directive	\$6,500,000	\$0	\$0	\$0	\$0	\$0					
Capital Replacement/System Improvement	t restricted	\$1,250,000	board directive	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000					
Equipment Replacement Reserve Fund	restricted	\$350,000	board directive	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000					
Rate Stabilization Reserve Fund	restricted	\$350,000	10% of water fee revenues	\$506,000	\$570,000	\$640,000	\$690,000	\$743,000	\$801,000					
Sick/Annual Leave Liability Reserve Fund	restricted	\$300,000	board directive	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000					
Total Reserve Fund Target		\$10,500,000		\$10,767,000	\$4,353,000	\$4,521,000	\$4,592,000	\$4,651,000	\$4,732,000					

3.6 Revenue from Water Charges

In order to generate revenues that adequately provide for utility operations, capital renewal and replacement costs, capital project costs, reserves, and bonded debt, rates need to be raised to generate approximately \$3 million per year in additional revenue by FY18. The recommended water charges are projected to increase revenues by approximately \$9.2 million over the next five fiscal years, FY14 – FY18. Concurrent with generating additional revenue from rates, the District will reduce its cash reserves from approximately \$8.5 million (as of July 1, 2012) to \$4 million at the end of FY18. The amount of revenue projected from water rates is summarized below in Table 3-6. Detailed calculations of revenue from charges are shown in Appendix D.

	Table 3-6.	Summary of	Revenue fron	n Water Rate	S		
Item	FY13	FY14	FY15	FY16	FY17	FY18	Five Years FY14 - FY18
Annual Fee Increases							
Basic Charges	0%	13%	13%	9%	9%	9%	
Quantity Charges	0%	13%	13%	8%	8%	8%	
Revenue from Fees							
Basic Charges	\$2,442,467	\$2,777,884	\$3,139,558	\$3,423,271	\$3,730,051	\$4,064,812	\$17,135,577
Quantity Charges	\$2,616,000	\$2,922,000	\$3,260,000	\$3,474,000	\$3,702,000	\$3,943,000	\$17,301,000
Total	\$5,058,467	\$5,699,884	\$6,399,558	\$6,897,271	\$7,432,051	\$8,007,812	\$34,436,577
Percent of Total							
Basic Charges	48%	49%	49%	50%	50%	51%	50%
Quantity Charges	52%	51%	51%	50%	50%	49%	50%
Revenue Increases							
Annual	FY13 base						
Basic Charges	<i>\$2,442,467</i>	\$335,418	\$697,092	\$980,805	\$1,287,584	\$1,622,346	
Quantity Charges	\$2,616,000	\$306,000	\$644,000	\$858,000	\$1,086,000	\$1,327,000	
Total	\$5,058,467	\$641,418	\$1,341,092	\$1,838,805	\$2,373,584	\$2,949,346	
Cumulative							
Basic Charges		\$335,418	\$1,032,510	\$2,013,314	\$3,300,899	\$4,923,244	
Quantity Charges		\$306,000	\$950,000	\$1,808,000	\$2,894,000	\$4,221,000	
Total		\$641,418	\$1,982,510	\$3,821,314	\$6,194,899	\$9,144,244	

The annual amount of revenues from basic and quantity charges, and the cumulative revenues from increases in the water charges, are shown in the figure below.

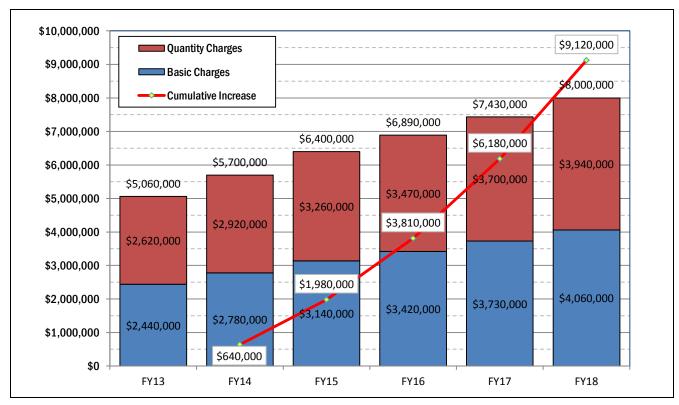


Figure 3-2. Annual Projected Revenues from Basic and Quantity Charges

3.7 Evaluation of Optional Tier Structure Changes

Five optional changes to the tiered rate structure are presented in this section. The changes are first evaluated individually. Then, the cumulative impact of the changes on the rate structure is evaluated. Finally, rates based on the current rate structure and the revised rate structure are compared after applying the recommended percent increase in rates.

3.7.1 Option 1-Flat Water Rate for Six Customer Classes

Many water purveyors charge nonresidential customer classes a flat rate for all water use while using a tiered water rate structure for residential customer classes. The current water rate structure was updated to evaluate the impact of using a flat rate for all water use for six, nonresidential customer classes – Commercial, Institutional, Landscape, Surplus, Other and Vacant. These six customer classes comprise approximately 11 percent of all water use. The update calculation, using projected FY13 water use, is shown in the table below. The updated rate structure with the flat rate is designed to be revenue neutral with the current rate structure. The difference in revenue from rates for the updated and current rate structure is \$175 which is 0.01% of the total revenue.

		Table	e 3-7. Flat	Water Rate fo	or Six Custon	ner Classes			
		Single	Multiple				Private	Surplus, Other,	Projected
		Family	Family	Commercial	Institutional	Landscape	Mutuals	Vacant	FY13 Total
Water Sales Revenue									
First 10 units		\$832,371	\$76,939	\$32,426	\$8,473	\$1,413	\$973	\$1,343	\$953,938
11 - 40 units		\$758,085	\$126,006	\$43,440	\$16,442	\$2,564	\$3,722	\$1,054	\$951,312
41 - 100 units		\$183,852	\$55,849	\$29,597	\$22,585	\$2,737	\$7,704	\$267	\$302,591
101 - 200 units		\$34,852	\$27,485	\$13,996	\$26,998	\$1,965	\$11,425	\$14	\$116,734
Over 200 units		\$15,001	\$160,386	\$4,848	\$67,623	\$11,558	\$31,896	\$0	\$291,313
Total		\$1,824,162	\$446,665	\$124,307	\$142,120	\$20,237	\$55,720	\$2,678	\$2,615,888
Percent of Total	_	70%	17%	5%	5%	1%	2%	0.1%	100%
Water Rates, \$/100 cf	current	Current Tier	ed Rates Increa	sed by 2.75% to r	emain revenue ne	eutral Using Flat F	Rate equal to Ave	erage Rate.	
First 10 units	\$2.71	\$2.78	\$2.78	\$3.40	\$3.40	\$3.40	\$2.78	\$3.40	
11 - 40 units	\$3.54	\$3.64	\$3.64	\$3.40	\$3.40	\$3.40	\$3.64	\$3.40	
41 - 100 units	\$4.24	\$4.36	\$4.36	\$3.40	\$3.40	\$3.40	\$4.36	\$3.40	
101 - 200 units	\$4.59	\$4.72	\$4.72	\$3.40	\$3.40	\$3.40	\$4.72	\$3.40	
Over 200 units	\$5.00	\$5.14	\$5.14	\$3.40	\$3.40	\$3.40	\$5.14	\$3.40	
Revenues Using	_	Single	Multiple				Private	Surplus, Other,	Projected
Average Quantity Charge		Family	Family	Commercial	Institutional	Landscape	Mutuals	Vacant	FY13 Total
Before Assignment of Flat R	ates								
Total Quantity Charge Re	evenue	\$1,775,947	\$434,603	\$134,008	\$187,929	\$26,859	\$54,198	\$2,519	\$2,616,064
Average Water Use, 100	cf	560,150	112,129	36,561	41,800	5,952	11,766	788	769,145
Average Quantity Charge	, \$/100 cf	\$3.17	\$3.88	\$3.67	\$4.50	\$4.51	\$4.61	\$3.20	\$3.40
After Assignment of Flat Rat	es								
Total Quantity Charge Revenue		\$1,824,162	\$446,665	\$124,307	\$142,120	\$20,237	\$55,720	\$2,678	\$2,615,888
Average Water Use, 100	Water Use, 100 cf 560,150 112,129 36,561 41,800 5,952 11,76		11,766	788	769,145				
Average Quantity Charge, \$/100 cf		\$3.26	\$3.98	\$3.40	\$3.40	\$3.40	\$4.74	\$3.40	\$3.40
Difference		\$48,214	\$12,062	(\$9,701)	(\$45,809)	(\$6,622)	\$1,522	\$158	(\$175)

Note that the average price of water for all use is \$3.40 per 100 cf. The average price is used as a flat rate for the six, nonresidential customer classes. Because the average rate for all water use is less than the current average rate for the Commercial (\$3.67 per 100 cf), Institutional (\$4.50 per 100 cf), and Landscape (\$4.51 per 100 cf) customer classes, the tiered rates for Residential, Multiple Family and Private Mutual are increased in order to maintain total revenues from water rates of approximately \$2,616,000. The percent increase in tiered rates is 2.75 percent. The result is a rate structure that is

revenue neutral with the current rate structure (within \$175) and more equitable for nonresidential customers.

3.7.2 Option 2-Lower Residential Tiers

The tiers for Residential customer classes were evaluated. Actual water use data for 2010 and 2011 and projected water use data for FY13 were used in the evaluation. The evaluation suggests the current lowest tier may be decreased to include the first 8 units instead of the first 10 units. The second tier would be adjusted to 9-30 units (the next 22 units) instead of 11-40 units (the next 30 units) and the third tier would be adjusted from 41-100 units (the next 60 units) to 31-100 units (the next 70 units). Tier 4 and Tier 5 remain the same. The amounts of water in each tier for the current water rate structure and revised water rate structure for the Residential customer class are shown in the figures below (the Tier 5 water use labels and % water use labels are not shown for clarity).

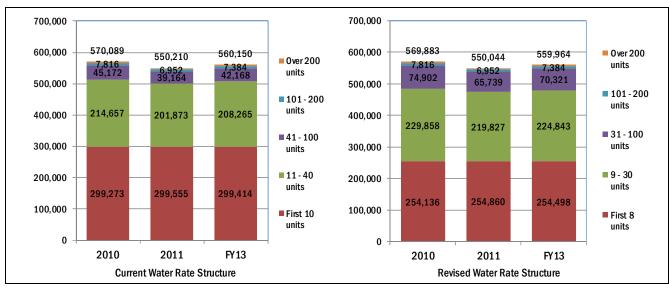


Figure 3-3. Lower Residential Tiers, 100 cf in Each Tier

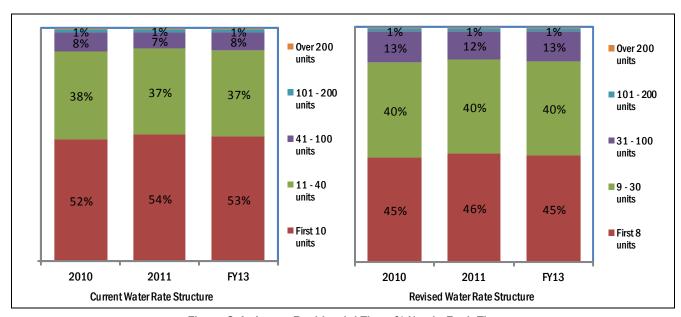


Figure 3-4. Lower Residential Tiers, % Use in Each Tier

The impact on revenues from quantity charges using the revised water rate structure for the Residential customer class is summarized in the table below. As a result of lowering the number of units in Tier 1 (from 10 to 8) and Tier 2 (from 30 to 22) more water is priced at higher tier prices and more revenue is generated from the same amount of water sales (note that the difference in water use of 186 units is due to slight changes in the source data used to evaluate the water use in each tier).

Cur	rent Rate Structur	e	Upda	ited Rate Structu	re		
		Sales			Sales	Differe	псе
Tier	Units in Tier	100 cf	Tier	Units in Tier	100 cf	100 cf	Percent
First 10 units	10	299,414	First 8 units	8	254,498	(44,916)	-15%
11 - 40 units	30	208,265	9 - 30 units	22	224,843	16,578	8%
41 - 100 units	60	42,168	31 - 100 units	70	70,321	28,153	67%
101 - 200 units	100	7,384	101 - 200 units	100	7,384	0	0%
Over 200 units	no limit	2,919	Over 200 units	no limit	2,919	0	0%
Total		560,150	Total		559,964	(186)	0%
Cur	rent Rate Structur	e	Upda	nted Rate Structu	re		
		Revenue			Revenue	Differe	псе
Tier	Units in Tier	Dollars	Tier	Units in Tier	Dollars	Dollars	Percent
First 10 units	10	\$811,412	First 8 units	8	\$689,690	(\$121,722)	-15%
11 10	30	\$737,258	9 - 30 units	22	\$795,942	\$58,684	8%
11 - 40 units	60	\$178,792	31 - 100 units	70	\$298,159	\$119,367	67%
41 - 100 units	60			400	\$33,893	\$0	0%
	100	\$33,893	101 - 200 units	100	433,033	ΨU	0 /
41 - 100 units		\$33,893 \$14,593	101 - 200 units Over 200 units	100 no limit	\$33,693 \$14,593	\$0 \$0	0%

The impact of the revised water rate structure on the Residential customer class is an increase in revenues of approximately 3 percent.

3.7.3 Option 3-Adjust Tiers for Dwelling Units for Multiple Family and Private Mutuals

This section evaluates two separate adjustments for the Multiple Family and Private Mutual customer classes – 1) adjustment of tiers based on the number of dwelling units served by a meter; and 2) lowering of tiers as was illustrated in the previous section for the Residential customer class. The first adjustment will lower revenues from water rates; the second adjustment will slightly increase revenue from water rates (as was the case for the Residential customer class). The table below shows the current rate structure for Multiple Family and Private Mutuals customer classes on the left hand side, with and without adjustment of tiers based on the number of dwelling units. The same amount of water use (within a fraction of a percent) is used on the right hand side of the table with a rate structure with lower Residential tiers.

Table 3-9. Impact of Tier Adjustment for Dwelling Units and Lower Residential Tiers	
on Multiple Family and Private Mutuals Water Use and Revenues	

			•						
			nt Tiers					dential Tiers	
	Multiple	e Family	Private	Mutuals		Multiple	e Family		Mutuals
	No	Adjust Tiers	No	Adjust Tiers		No	Adjust Tiers	No	Adjust Tiers
	Adjustment	for Units	Adjustment	for Units		Adjustment	for Units	Adjustment	for Units
Water Sales, 100 cf					Water Sales, 100 cf				
First 10 units	27,676	59,936	350	6,289	First 8 units	22,737	50,962	280	5,472
11 - 40 units	34,617	41,690	1,023	4,374	9 - 30 units	33,332	45,023	757	4,834
41 - 100 units	12,810	8,441	1,767	886	31 - 100 units	19,034	14,081	2,103	1,512
101 - 200 units	5,823	1,478	2,421	155	101 - 200 units	5,823	1,479	2,421	159
Over 200 units	31,204	584	6,206	61	Over 200 units	31,204	584	6,479	63
Total	112,129	112,129	11,766	11,766	Total	112,129	112,129	12,039	12,039
Water Sales, %					Water Sales, %				
First 10 units	25%	53%	3%	53%	First 8 units	20%	45%	2%	45%
11 - 40 units	31%	37%	9%	37%	9 - 30 units	30%	40%	6%	40%
41 - 100 units	11%	8%	15%	8%	31 - 100 units	17%	13%	17%	13%
101 - 200 units	5%	1%	21%	1%	101 - 200 units	5%	1%	20%	1%
Over 200 units	28%	1%	53%	1%	Over 200 units	28%	1%	54%	1%
Total	100%	100%	100%	100%	Total	100%	100%	100%	100%
Water Rates, \$/100 cf					Water Rates, \$/100 cf				
First 10 units	\$2.71	\$2.71	\$2.71	\$2.71	First 8 units	\$2.71	\$2.71	\$2.71	\$2.71
11 - 40 units	\$3.54	\$3.54	\$3.54	\$3.54	9 - 30 units	\$3.54	\$3.54	\$3.54	\$3.54
41 - 100 units	\$4.24	\$4.24	\$4.24	\$4.24	31 - 100 units	\$4.24	\$4.24	\$4.24	\$4.24
101 - 200 units	\$4.59	\$4.59	\$4.59	\$4.59	101 - 200 units	\$4.59	\$4.59	\$4.59	\$4.59
Over 200 units	\$5.00	\$5.00	\$5.00	\$5.00	Over 200 units	\$5.00	\$5.00	\$5.00	\$5.00
Revenue					Revenue				
First 10 units	\$75,002	\$162,426	\$949	\$17,043	First 8 units	\$61,616	\$138,106	\$759	\$14,828
11 - 40 units	\$122,544	\$147,582	\$3,620	\$15,486	9 - 30 units	\$117,995	\$159,382	\$2,680	\$17,112
41 - 100 units	\$54,312	\$35,790	\$7,492	\$3,755	31 - 100 units	\$80,704	\$59,704	\$8,915	\$6,410
101 - 200 units	\$26,728	\$6,785	\$11,110	\$712	101 - 200 units	\$26,728	\$6,787	\$11,110	\$729
Over 200 units	\$156,018	\$2,921	\$31,028	\$307	Over 200 units	\$156,018	\$2,922	\$32,395	\$314
Total	\$434,603	\$355,504	\$54,198	\$37,302	Total	\$443,060	\$366,901	\$55,858	\$39,393
reduction	on in revenue >	(\$79,100)		(\$16,895)	reductio	n in revenue >	(\$76,159)		(\$16,465)
				d	ifference in revenue due to cha	nges in tiers >	\$2,941		\$430

With both the current rate structure and the updated rate structure, the adjustment of tiers based on the number of dwelling units results in less revenue from the Multiple Family customer class for both the current rate structure (a decrease of \$79,100) and updated rate structure (a decrease of \$76,200). A similar loss of revenues is evident for the Private Mutuals customer class for the current rate structure (a decrease of \$16,900) and updated rate structure (a decrease of \$16,500).

3.7.4 Option 4-Lower Residential Tiers for Multiple Family and Private Mutuals

Isolation of the impact of the updated rate structure (lower Residential tiers) separate from the impact of adjustment of tiers based on the number of dwelling units is done by subtracting the revenue value for the updated rate structure from the revenue value for the current rate structure. For example, the Multiple Family customer class has a decrease in revenue of \$76,200 for the updated rate structure and a decrease in revenue of \$79,100 for the current rate structure. The difference, a positive \$2,900, is the slight increase in revenue from using lower Residential tiers. The difference for the Private Mutuals customer class is approximately \$400.

3.7.5 Option 5-Four-Tier Rate Structure

The small amount of water use in the top three tiers and the minimal amount of water use in Tier 4 provides the basis for our recommendation of combining Tier 4 and Tier 5 into a single tier and charging the weighted average water rate for the two tiers. The new top tier would be for water use "Over 100 units." The change would be revenue neutral with the current tier structure. As a result of the change, some customer bills would decrease and some would increase depending on the weighting of their water use in each tier.

Calculation of a Tier 4 rate for a four-tier rate structure is shown in the table below for both the current rates and rates based on all other optional updates. Note that only three customer classes would have tiered water rates (Residential, Multiple Family and Private Mutuals) and the amount of water priced in Tiers 3 and 4 for the updated rate structure is approximately 12 percent of water sales. In the current water rate structure approximately 22 percent of the water is priced in Tiers 3, 4 and 5.

			Projected		
Water Fees	FY14	FY15	FY16	FY17	FY18
Current Rate Structure					
Water Use, 100 cf					
101 - 200 units	28,000	27,000	26,000	25,000	24,000
Over 200 units	65,500	64,000	63,000	62,000	61,000
Total	93,500	91,000	89,000	87,000	85,000
Water Rate, \$/100 cf					
101 - 200 units	\$5.19	\$5.86	\$6.33	\$6.84	\$7.39
Over 200 units	\$5.65	\$6.38	\$6.89	\$7.44	\$8.04
Revenue					
101 - 200 units	\$145,320	\$158,220	\$164,580	\$171,000	\$177,360
Over 200 units	\$370,075	\$408,320	\$434,070	\$461,280	\$490,440
Total	\$515,395	\$566,540	\$598,650	\$632,280	\$667,800
Combined Tier 4 and Tier 5					
Revenue	\$515,395	\$566,540	\$598,650	\$632,280	\$667,800
Water Use, 100 cf	93,500	91,000	89,000	87,000	85,000
Tier 4 Over 100 Units	\$5.51	\$6.23	\$6.73	\$7.27	\$7.86
Updated Rate Structure					
Water Use, 100 cf					
101 - 200 units	9,000	9,000	9,000	9,000	9,000
Over 200 units	3,000	3,000	3,000	3,000	3,000
Total	12,000	12,000	12,000	12,000	12,000
Water Rate, \$/100 cf					
101 - 200 units	\$5.33	\$6.02	\$6.50	\$7.02	\$7.58
Over 200 units	\$5.81	\$6.57	\$7.10	\$7.67	\$8.28
Revenue					
101 - 200 units	\$47,970	\$54,180	\$58,500	\$63,180	\$68,220
Over 200 units	\$17,430	\$19,710	\$21,300	\$23,010	\$24,840
Total	\$65,400	\$73,890	\$79,800	\$86,190	\$93,060
Combined Tier 4 and Tier 5					
Revenue	\$65,400	\$73,890	\$79,800	\$86,190	\$93,060
Water Use, 100 cf	12,000	12,000	12,000	12,000	12,000
Tier 4 Over 100 Units	\$5.45	\$6.16	\$6.65	\$7.18	\$7.76
Summary for Combined Tier 4 and Tier 5 (Over 100 Units)					
Current Rate Structure	\$5.51	\$6.23	\$6.73	\$7.27	\$7.86
Updated Rate Structure	\$5.45	\$6.16	\$6.65	\$7.18	\$7.70

3.8 Fiscal Impact of Optional Tier Structure Changes

The fiscal impact for each of the five optional tier structure changes is presented in three different ways – 1) changes in revenues from quantity charges recovered from each customer class; 2) changes in the average price of water for each customer class; and 3) changes in sample bimonthly bills using the current rate structure and an FY14 rate structure that includes rate increases and adjusted quantity charges using the five optional tier structure changes.

3.8.1 Changes in Revenues from Quantity Charges

The fiscal impact for each of the five optional tier structure changes is itemized in the table below using projected revenue from quantity charges for FY13 of approximately \$2,616,000. The summary shows the projected total revenues in each tier for each customer class using the current rate structure and the revenue impact for each of the optional tire structure changes. Note that the change to flat rates for six customer classes and the combination of Tier 4 and Tier 5 rates are both revenue neutral on a system wide basis but shift revenues between customer classes (flat rates) and between customers within a customer class (combination of Tier 4 and Tier 5). Options 2, 3 and 4 are not revenue neutral and, taken together, result in a net loss in revenue of approximately \$36,000. It is recommended that Option 2, Option 3 and Option 4 be implemented jointly or not at all to minimize the fiscal impact on a system wide basis.

Table 3-11. Reven	ue Impact of Op	otional Tie	r Structure	Changes o	n Each Cus	tomer Clas	S	
							Surplus,	FY13
	Single	Multiple				Private	Other,	Projected
Revenues from Current Tier Rate Structure	Family	Family	Commercial	Institutional	Landscape	Mutuals	Vacant	Total
Water Sales Revenue								
First 10 units	\$811,412	\$75,002	\$25,845	\$6,753	\$1,126	\$949	\$1,070	\$922,157
11 - 40 units	\$737,258	\$122,544	\$45,229	\$17,119	\$2,669	\$3,620	\$1,097	\$929,537
41 - 100 units	\$178,792	\$54,312	\$36,909	\$28,164	\$3,413	\$7,492	\$333	\$309,416
101 - 200 units	\$33,893	\$26,728	\$18,895	\$36,447	\$2,653	\$11,110	\$18	\$129,743
Over 200 units	\$14,593	\$156,018	\$7,130	\$99,445	\$16,998	\$31,028	\$0	\$325,210
Total	\$1,775,947	\$434,603	\$134,008	\$187,929	\$26,859	\$54,198	\$2,519	\$2,616,064
		\$443,060	-\$434,603					
Summary of Rate Structure Options								
1 Flat Rate for C, I, L, S, O and V	\$48,214	\$12,062	(\$9,701)	(\$45,809)	(\$6,622)	\$1,522	\$158	(\$175)
2 Tiers Adjusted for Units for MF and PM								
Multiple Family		(\$79,100)						(\$79,100)
Private Mutuals						(\$16,895)		(\$16,895)
Total								(\$95,995)
3 Change Tiers 1, 2 and 3 for Residential	\$56,329							\$56,329
4 Option 2 with Option 3 Tiers for MF and PM								
Multiple Family		\$2,941						\$2,941
Private Mutuals						\$430		\$430
Total								\$3,371
5 Combine Tiers 4 and 5	\$0	\$0				\$0		\$0
Total All Options	\$104,543	(\$64,098)	(\$9,701)	(\$45,809)	(\$6,622)	(\$14,943)	\$158	(\$36,471)
% Change from Current	6%	-15%	-7%	-24%	-25%	-28%	6%	-1%

The net impact of the five optional tier structure changes will result in percent increases in water bills for users in the Residential customer class that are greater than average as approximately \$105,000 is shifted from the nonresidential customer classes (except the Surplus, Other and Vacant customer classes) to the Residential customer class. The same shift of revenues to the Residential customer class is, of course, a shift in revenues from the nonresidential customer classes. Nonresidential customers with water use greater than the typical Residential customer should experience percent increases in water bills that are less than average for the system.

3.8.2 Average Quantity Charges Using Updated Rate Structure

The evaluation of the average quantity charge for each customer class using the current rate structure was presented in Section 2.3.3. The average quantity charge for each customer class using the updated rate structure is shown in the table below. For comparison, the table includes a summary of the average quantity charges using the current rate structure.

The FY13 projected average quantity charge for all customer classes combined decreases from \$3.40 per unit using the current rate structure to \$3.35 per unit using the updated rate structure because the updated rate structure is projected to bring in less revenue (approximately \$36,000 less).

The variation from the average quantity charge among all customer classes is lower for the updated rate structure and varies from +\$0.05 to -\$0.08. The variation from the average quantity charge among all customer classes for the current rate structure varies from +\$1.21 to -\$0.23.

Table 3-12	. Water Use R	evenues by	Tier and Ave	rage Quantit	y Charge per	Customer CI	ass	
	Single Family	Multiple Family	Commercial	Institutional	Landscape	Private Mutuals	Surplus, Other, Vacant	FY13 Projected Total
Water Sales Revenue	- anny	· uniny	Commorcial	motitutionui	Lunasaapo	Mutuulo	radant	Total
First 8 units	\$707,504	\$138,106				\$14,828		\$860,438
9 - 30 units	\$818,427	\$159,382				\$17,112		\$994,921
31 - 100 units	\$306,597	\$59,704				\$6,410		\$372,712
Over 100 units	\$49,854	\$9,985				\$1,072		\$60,911
Flat Rate			\$124,307	\$142,120	\$20,237		\$2,678	\$289,342
Total	\$1,882,382	\$367,177	\$124,307	\$142,120	\$20,237	\$39,423	\$2,678	\$2,578,324
Percent of Total	73%	14%	5%	6%	1%	2%	0.1%	100%
Water Sales Revenue, %								
First 8 units	38%	38%	0%	0%	0%	38%	0%	33%
9 - 30 units	43%	43%	0%	0%	0%	43%	0%	39%
31 - 100 units	16%	16%	0%	0%	0%	16%	0%	14%
Over 100 units	3%	3%	0%	0%	0%	3%	0%	2%
Flat Rate	0%	0%	100%	100%	100%	0%	100%	11%
Total	100%	100%	100%	100%	100%	100%	100%	100%
Average Quantity Charge, \$/100 cf Customer Classes								
Total Quantity Charge Revenue	\$1,882,382	\$367,177	\$124,307	\$142,120	\$20,237	\$39,423	\$2,678	\$2,578,324
Average Water Use, FY13 Projected	560,150	112,129	36,561	41,800	5,952	11,766	788	769,145
Average Quantity Charge	\$3.36	\$3.27	\$3.40	\$3.40	\$3.40	\$3.35	\$3.40	\$3.35
Current Rate Structure, FY 13 Projected								
Total Quantity Charge Revenue	\$1,775,947	\$434,603	\$134,008	\$187,929	\$26,859	\$54,198	\$2,519	\$2,616,064
Average Water Use, FY13 Projected	560,150	112,129	36,561	41,800	5,952	11,766	788	769,145
Average Quantity Charge	\$3.17	\$3.88	\$3.67	\$4.50	\$4.51	\$4.61	\$3.20	\$3.40

3.8.3 Bimonthly Bills Using Updated Rate Structure

A summary of the impact of the optional tier structure changes on water bills for six customer classes is shown in the table below. The impact is assessed by comparing bimonthly bills based on the current rates and rate structure versus rates for FY14 using the updated rate structure.

	Table 3-13. Impact of Optional Tier Structure Changes on Bimonthly Water Bills														
	Reside	ential	Multiple	Family		Commercial			Institutional			Landscape		Private I	Autuals
	Avg Use	High Use	Avg Use	High Use	LowUse	Avg Use	High Use	Low Use	Avg Use	High Use	Low Use	AvgUse	High Use	Small	Large
Current Rates															
Dwelling Units	1	1	2	6	1	1	1	1	1	1	1	1	1	4	12
Meter Size	5/8	5/8	5/8A	2	3/4	3/4	3/4	1	2	3	5/8	1	2	5/8A	1-1/2S
Meter Charge	\$49.73	\$49.73	\$82.90	\$265.68	\$82.90	\$82.90	\$82.90	\$82.90	\$265.68	\$498.62	\$49.73	\$82.90	\$265.68	\$82.90	\$531.36
Quantity Charge															
Water Use, 100 cf	<u>14</u>	28	28	84	28	<u>150</u>	250	100	<u>150</u>	300	<u>50</u>	<u>150</u>	250	<u>56</u>	<u>168</u>
First 10 units	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11 - 40 units	4	18	18	30	18	30	30	30	30	30	40	30	30	30	30
41 - 100 units				44		60	60	60	60	60		60	60	16	60
101 - 200 units						50	100		50	100		50	100		68
Over 200 units							50			100			50		
Rate, \$/100 cf															
First 10 units	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71	\$2.71
11 - 40 units	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54	\$3.54
41 - 100 units	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24
101 - 200 units	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59	\$4.59
Over 200 units	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00
	\$41.26	\$90.82	\$90.82	\$319.86	\$90.82	\$617.20	\$1,097	\$387.70	\$617.20	\$1,347	\$168.70	\$617.20	\$1,097	\$201.14	\$699.82
Charge Bimonthly Bill	\$90.99	\$140.55	\$173.72	\$585.54	\$173.72	\$700.10	\$1,097	\$470.60	\$882.88	\$1,845	\$218.43	\$700.10	\$1,097		\$1,231.18
•	\$90.99	\$140.55	\$113.12	\$363.34	\$113.12	\$700.10	\$1,100	\$470.00	₹002.00	\$1,645	\$210.43	\$700.10	\$1,302	\$204.04	\$1,231.10
FY14 Rates, All Options															
Dwelling Units	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2
Meter Charge	\$56.19	\$56.19	\$93.68	\$300.00	\$93.68	\$93.68	\$93.68	\$93.68	\$300.00	\$563.00	\$56.19	\$93.68	\$300.00	\$93.68	\$600.00
Quantity Charge															
Water Use, 100 cf	<u>14</u>	28	28	84	28	<u>150</u>	<u>250</u>	<u>100</u>	<u>150</u>	300	<u>50</u>	<u>150</u>	<u>250</u>	<u>56</u>	<u>168</u>
First 8 units	8	8	16	84										32	96
9 - 30 units	6	20	12											24	72
31 - 100 units															
Over 100 units															
Flat Charge					28	150	250	100	150	300	50	150	250		
Rate, \$/100 cf															
First 8 units	\$3.14	\$3.14	\$3.14	\$3.14										\$3.14	\$3.14
9 - 30 units	\$4.11	\$4.11	\$4.11	\$4.11										\$4.11	\$4.11
31 - 100 units	\$4.93	\$4.93	\$4.93	\$4.93										\$4.93	\$4.93
Over 100 units	\$5.45	\$5.45	\$5.45	\$5.45										\$5.45	\$5.45
Flat Charge					\$3.84	\$3.84	\$3.84	\$3.84	\$3.84	\$3.84	\$3.84	\$3.84	\$3.84		
Charge	\$49.78	\$107.32	\$99.56	\$263.76	\$107.52	\$576.00	\$960	\$384.00	\$576.00	\$1,152	\$192.00	\$576.00	\$960	\$199.12	\$597.36
Bimonthly Bill	\$105.97	\$163.51	\$193.24	\$563.76	\$201.20	\$669.68	\$1,054	\$477.68	\$876.00	\$1,715	\$248.19	\$669.68	\$1,260	\$292.80	\$1,197.36
Increase in Bills															
Dollars	\$14.98	\$22.96	\$19.52	-\$21.78	\$27.48	-\$30.42	-\$126	\$7.08	-\$6.88	-\$130	\$29.76	-\$30.42	-\$102	\$8.76	-\$33.82
Percent	16%	16%	11%	-4%	16%	-4%	-11%	2%	-1%	-7%	14%	-4%	-8%	3%	-3%
Percent Increase in Rates															
Basic Charges	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%
Quantity Charges	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies	varies

3.9 Current and Recommended Water Rates

Current and FY14 – FY18 recommended quantity charges and basic charges are listed in the tables below. The recommended quantity charges for each rate structure (the current structure and an updated structure using all five options) are shown in a table separate from the basic charges.

		Recommended						
	Current	FY14	FY15	FY16	FY17	FY18		
Basic Charges, \$/2 months								
Annual Increase, %		13%	13%	9%	9%	9%		
5/8-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
5/8A-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
5/8B-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
5/8C-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
3/4-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
3/4A-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1A-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
1B-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
1F-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
1-1/2-inch	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00		
1-1/2A-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
1-1/2C-inch	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00		
1-1/2F-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
1-1/2G-inch	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
1-1/2S-inch	\$531.36	\$600.00	\$678.00	\$739.00	\$806.00	\$879.00		
2-inch	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00		
2A-inch	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00		
2G/L-inch	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00		
3-inch	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00		
4-inch	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00		

	Recommended						
	Current	FY14	FY15	FY16	FY17	FY18	
Current Rate Structure							
Annual Increase, %		13%	13%	8%	8%	8%	
First 10 units	\$2.71	\$3.06	\$3.46	\$3.74	\$4.04	\$4.36	
11 - 40 units	\$3.54	\$4.00	\$4.52	\$4.88	\$5.27	\$5.69	
41 - 100 units	\$4.24	\$4.79	\$5.41	\$5.84	\$6.31	\$6.81	
101 - 200 units	\$4.59	\$5.19	\$5.86	\$6.33	\$6.84	\$7.39	
Over 200 units	\$5.00	\$5.65	\$6.38	\$6.89	\$7.44	\$8.04	
Updated Rate Structure, All Options							
Annual Increase, %		16%	13%	8%	8%	8%	
First 8 units	\$2.71	\$3.14	\$3.55	\$3.83	\$4.14	\$4.47	
9 - 30 units	\$3.54	\$4.11	\$4.64	\$5.01	\$5.41	\$5.84	
31 - 100 units	\$4.24	\$4.93	\$5.57	\$6.02	\$6.50	\$7.02	
Over 100 units	na	\$5.45	\$6.16	\$6.65	\$7.18	\$7.76	
Flat Rate	na	\$3.84	\$4.34	\$4.69	\$5.07	\$5.48	

3.10 Single Family Bills and Survey

Calculation of the average Single Family bimonthly water bill is shown in the tables below. The top table shows the bills using the current rate structure. The lower table shows bills using the updated rate structure for all options.

	Current	FY14	FY15	FY16	FY17	FY18
Average Bimonthly Use						
Water Use, 100 cf	560,150	554,548	549,003	543,512	538,077	532,697
Accounts	6,393	6,446	6,446	6,446	6,446	6,446
Average Use						
100 cf/month	14.6	14.3	14.2	14.1	13.9	13.8
gallons per day	180	176	175	173	171	169
Bimonthly Bill						
Meter Charge	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22
Quantity Charge						
Water Use, 100 cf	14	14	14	14	14	14
First 10 units	10	10	10	10	10	10
11 - 40 units	4	4	4	4	4	4
Rate, \$/100 cf						
First 10 units	\$2.71	\$3.06	\$3.46	\$3.74	\$4.04	\$4.36
11 - 40 units	\$3.54	\$4.00	\$4.52	\$4.88	\$5.27	\$5.69
Charge	\$41.26	\$46.60	\$52.68	\$56.92	\$61.48	\$66.36
Bimonthly Bill	\$90.99	\$102.79	\$116.17	\$126.12	\$136.91	\$148.58
Increase						
Dollars		\$11.80	\$13.38	\$9.95	\$10.79	\$11.67
Percent		13%	13%	9%	9%	9%

Table 3-17. Siligle Fa	allilly Average water	ily Average Water Use and Bimonthly Bills Using All Updated Rate Structure Options						
	Current	FY14	FY15	FY16	FY17	FY18		
Average Bimonthly Use								
Water Use, 100 cf	560,150	554,548	549,003	543,512	538,077	532,697		
Accounts	6,393	6,446	6,446	6,446	6,446	6,446		
Average Use								
100 cf/month	14.6	14.3	14.2	14.1	13.9	13.8		
gallons per day	180	176	175	173	171	169		
Bimonthly Bill								
Meter Charge	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22		
Quantity Charge								
Water Use, 100 cf	14	14	14	14	14	14		
First 8 units	10	8	8	8	8	8		
9 - 30 units	4	6	6	6	6	6		
Rate, \$/100 cf								
First 8 units	\$2.71	\$3.14	\$3.55	\$3.83	\$4.14	\$4.47		
9 - 30 units	\$3.54	\$4.11	\$4.64	\$5.01	\$5.41	\$5.84		
Charge	\$41.26	\$49.78	\$56.24	\$60.70	\$65.58	\$70.80		
Bimonthly Bill	\$90.99	\$105.97	\$119.73	\$129.90	\$141.01	\$153.02		
Increase								
Dollars		\$14.98	\$13.76	\$10.17	\$11.11	\$12.01		
Percent		16%	13%	8%	9%	9%		

Comparison of current water bills and water bills based on the two sets of FY14 recommended rates with those of other municipalities is shown in Figure 3-5.

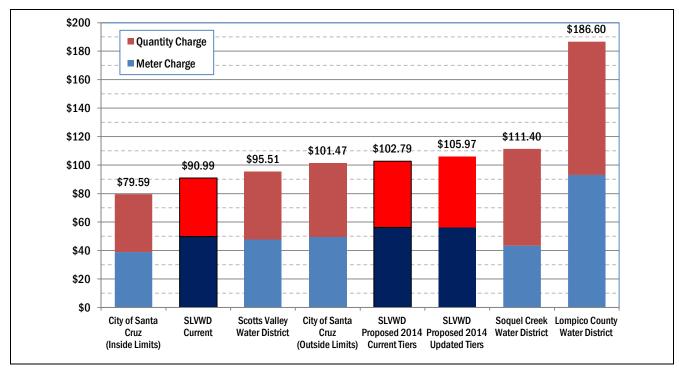
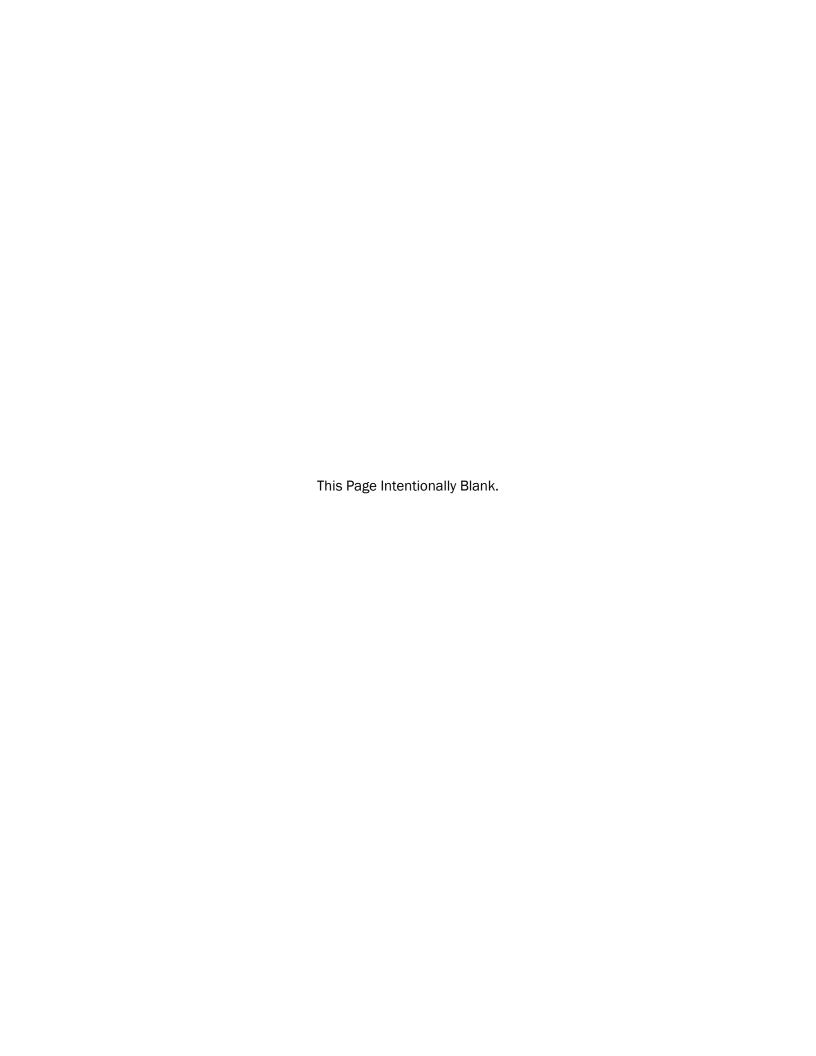


Figure 3-5. Single Family Bimonthly Water Bills Survey



Wastewater Rates

Revenue, expenditures, reserve levels, water rates, and debt coverage for the wastewater utility are summarized in this section.

4.1 Wastewater Operating Revenues and Expenditures

Budgeted and projected operating revenues and expenditures are shown in the table below. Revenues (except revenues from wastewater charges) and expenditures for FY13 are from the District's budget. Projected revenues and expenditures are based on annual escalation rates provided by the District.

Table 4-1	L. Budgeted and	Projected Ope	rating Expendi	itures		
Item	FY13	FY14	FY15	FY16	FY17	FY18
Non-restricted Revenues [1]						
4102 Sewer Charges for Service	\$100,000	\$113,190	\$130,020	\$149,490	\$171,930	\$177,210
Total Non-restricted Revenues	\$100,000	\$113,190	\$130,020	\$149,490	\$171,930	\$177,210
Operating Expenses [2]						
Personnel	\$15,860	\$16,336	\$16,826	\$17,331	\$17,851	\$18,386
Materials & Services	\$54,950	\$56,599	\$58,296	\$60,045	\$61,847	\$63,702
Capital R&R	\$0	\$0	\$0	\$0	\$50,000	\$50,000
Total Operating Expenditures	\$70,810	\$72,934	\$75,122	\$77,376	\$129,697	\$132,088
Summary						
Non-restricted Revenues	\$100,000	\$113,190	\$130,020	\$149,490	\$171,930	\$177,210
Operating Expenditures	\$70,810	\$72,934	\$75,122	\$77,376	\$129,697	\$132,088
Net Income / (Shortfall)	\$29,190	\$40,256	\$54,898	\$72,114	\$42,233	\$45,122
Notes:						
1 Sewer Charges for Service are summarized in Table	4-2. Revenues for other	Non-restricted items	were provided by the	e District.		
2 Personnel and Materials & Services expenditures for	r FY13 are from the Distr	ict's budget. Values	for FY14 onward are	escalated as shown l	pelow:	
		<u>FY14</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>
	Personnel	3%	3%	3%	3%	3%
	Materials & Services	3%	3%	3%	3%	3%
Capital Repair and Refurbishment (R&R) expenditu	res were provided by the	District.				

4.2 Wastewater Enterprise Cash Flow

Cash flow for the wastewater enterprise is shown in the table and figure below.

Table 4-2. Wastewater Enterprise Cash Flow												
							Five Years					
Item	FY13	FY14	FY15	FY16	FY17	FY18	FY14 - FY18					
Beginning Balance, July 1 [1]	-\$214,603	-\$185,413	-\$145,157	-\$90,260	-\$18,146	\$24,087						
Revenues												
Non-restricted Revenues												
Wastewater Charges [2]	\$100,000	\$113,190	\$130,020	\$149,490	\$171,930	\$177,210	\$741,840					
Total Revenues	\$100,000	\$113,190	\$130,020	\$149,490	\$171,930	\$177,210	\$741,840					
Operating Expenditures	\$70,810	\$72,934	\$75,122	\$77,376	\$129,697	\$132,088	\$487,218					
Debt Service	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
Capital Project Expenditures	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
Interest Earnings [3]	\$0	\$0	\$0	\$0	\$0	\$241	\$24:					
Ending Balance	-\$185,413	-\$145,157	-\$90,260	-\$18,146	\$24,087	\$69,450						
Notes: 1 The Beginning Balance for FY13 based on U	Invactricad Nat Acc											
2 Revenues from Wastewater Charges are ca	lculated based on t	the number of use	s and rates shown	below:	,	,	012 and 2011.					
2 Revenues from Wastewater Charges are ca		the number of user	s and rates shown <u>FY15</u>	below: <u><i>FY16</i></u>		<u>FY18</u>	012 and 2011.					
2 Revenues from Wastewater Charges are ca number of users >	lculated based on t <i>FY13</i>	the number of user <u>FY14</u> 55	rs and rates shown <u>FY15</u> 55	below: <u>FY16</u> 55	<u>FY17</u> 55	<i>FY18</i> 55	012 and 2011.					
2 Revenues from Wastewater Charges are ca	lculated based on t	the number of user <u>FY14</u> 55 \$343	rs and rates shown <u>FY15</u> 55 \$394	below: <u>FY16</u> 55 \$453	<u>FY17</u> 55 \$521	<i>FY18</i> 55 \$537	012 and 2011.					
2 Revenues from Wastewater Charges are ca number of users > wastewater rate, \$/2 months >	lculated based on t <i>FY13</i>	the number of user <u>FY14</u> 55 \$343 15%	s and rates shown <u>FY15</u> 55 \$394 15%	below: <u>FY16</u> 55 \$453 15%	<i>FY17</i> 55 \$521 15%	<i>FY18</i> 55 \$537 3%	012 and 2011.					
2 Revenues from Wastewater Charges are ca number of users > wastewater rate, \$/2 months > revenue >	lculated based on t <u>FY13</u> \$298	the number of user <u>FY14</u> 55 \$343 15% \$113,190	s and rates shown <u>FY15</u> 55 \$394 15% \$130,020	below: FY16 55 \$453 15% \$149,490	FY17 55 \$521 15% \$171,930	<i>FY18</i> 55 \$537	012 and 2011.					
2 Revenues from Wastewater Charges are ca number of users > wastewater rate, \$/2 months > revenue > 3 Interest Earnings for FY13 are updated from	lculated based on t <u>FY13</u> \$298 In the District's bud	the number of user FY14 55 \$343 15% \$113,190 Iget amount to refl	s and rates shown <u>FY15</u> 55 \$394 15% \$130,020 ect a steady decre	below: FY16 55 \$453 15% \$149,490 ase in yield in rate	FY17 55 \$521 15% \$171,930 es on investment.	<i>FY18</i> 55 \$537 3%	012 and 2011.					
2 Revenues from Wastewater Charges are ca number of users > wastewater rate, \$/2 months > revenue >	lculated based on t <u>FY13</u> \$298 In the District's bud	the number of user FY14 55 \$343 15% \$113,190 Iget amount to refl	s and rates shown <u>FY15</u> 55 \$394 15% \$130,020 ect a steady decre	below: FY16 55 \$453 15% \$149,490 ase in yield in rate	FY17 55 \$521 15% \$171,930 es on investment.	<i>FY18</i> 55 \$537 3%	012 and 2011.					

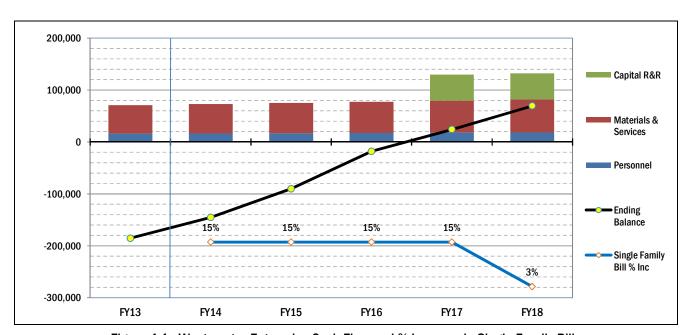


Figure 4-1. Wastewater Enterprise Cash Flow and % Increase in Single Family Bills

4.3 Wastewater Charges

Current and recommended wastewater charges are listed in the table below.

Ta	ble 4-3. Current a	nd Recommen	ded Wastewa	ter Charges		
			R	ecommended		
Wastewater Charges	Current	FY14	FY15	FY16	FY17	FY18
Annual Increase, %		15%	15%	15%	15%	3%
Service Charge, \$/2 months	\$298	\$343	\$394	\$453	\$521	\$537

Past and current wastewater bimonthly charges from 1995 – 2013 and recommended for 2014 – 2018 are shown in the table below. The compound annual increase in charges for the 19 years, 1995 – 2013, is 8.4 percent. The compound annual increase in charges for the 24 years, 1995 – 2018 increases to 9.3 percent when the five years of recommended rate increases are included.

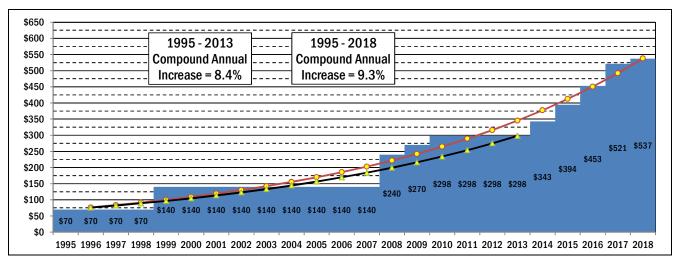
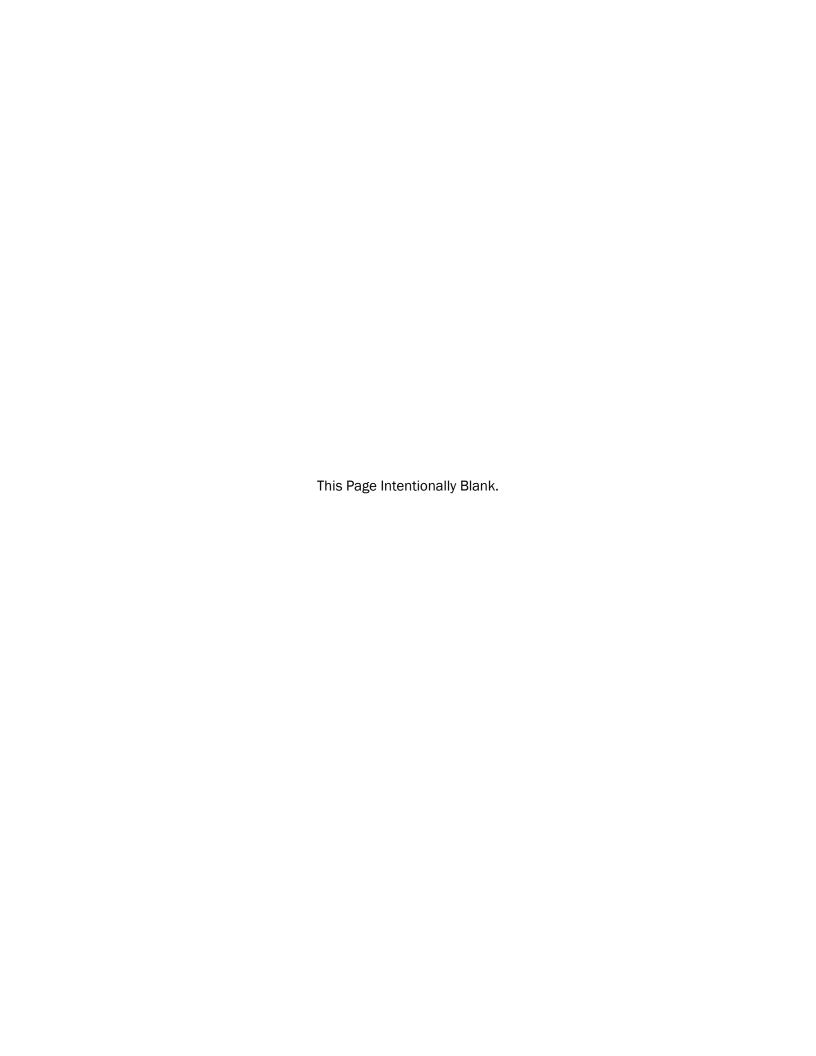


Figure 4-2. Wastewater Single Family Bills 1995 - 2018



Findings and Recommendations

5.1 Findings

Based on our evaluation of the District's finances, charges and customer water use data we have developed the following findings:

- Projected FY14 FY18 operating expenditures are approximately \$29.2 million.
- Projected FY14 FY18 capital expenditures are approximately \$11.0 million.
- Projected FY14 FY18 debt service expenditures are approximately \$7.0 million.
- Projected FY14 FY18 loan disbursements are approximately \$6.0 million.
- Projected FY14 FY 18 revenue required from water charges is \$34.4 million.
- Projected FY14 FY 18 revenue from water charges with no increase in charges is \$24.9 million.
- Annual increases in charges of 13 percent for FY14 and FY15, and approximately 9 percent in FY16, FY17 and FY18 should generate an additional \$9.1 million in revenue.
- The current tier rate structure may be made more equitable, acceptable and fair, without
 compromising revenue sufficiency or revenue stability, by adjusting tier unit amounts, tier prices
 and incorporating adjustment of tier unit amounts for multiple family residential and private
 mutual customer classes.

5.2 Recommendations

The following recommendations are offered regarding the District's water and wastewater service charges:

Recommendation 1. Adopt the projected water charges for the updated tier rate structure for FY14 – FY18, effective July 1 of each Fiscal Year.

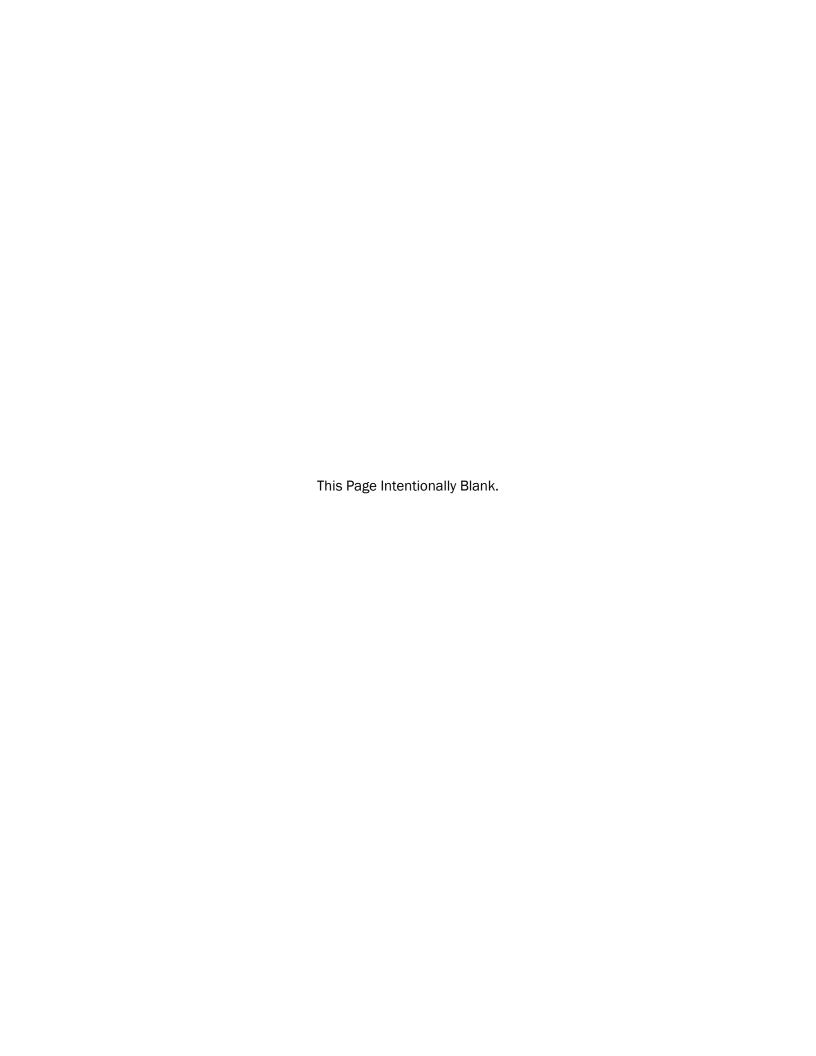
Recommendation 2. Amend the water tiers structure to replace the "200 Units and Over" tier with a "100 Units and Over" tier and eliminate the "101 – 200 Units" tier.

Recommendation 3. Amend the water tiers structure as follows: a) replace the "First 10 units" tier with a "First 8 units" tier; b) replace the "11 - 40 units" tier with a "9 - 30 units" tier; and c) replace the "41 - 100 units" tier with a "31 - 100 units" tier.

Recommendation 4. Apply a flat rate (which represents the average price of water) for all water use to customers in the Commercial, Institutional and Landscape customer classes.

Recommendation 5. Adjust the tier unit amounts for multiple family residential and private mutual customer classes for the number of dwelling units served by the meter.

Recommendation 6. Adopt the projected wastewater rates for FY14 – FY18, effective July 1 of each Fiscal Year.

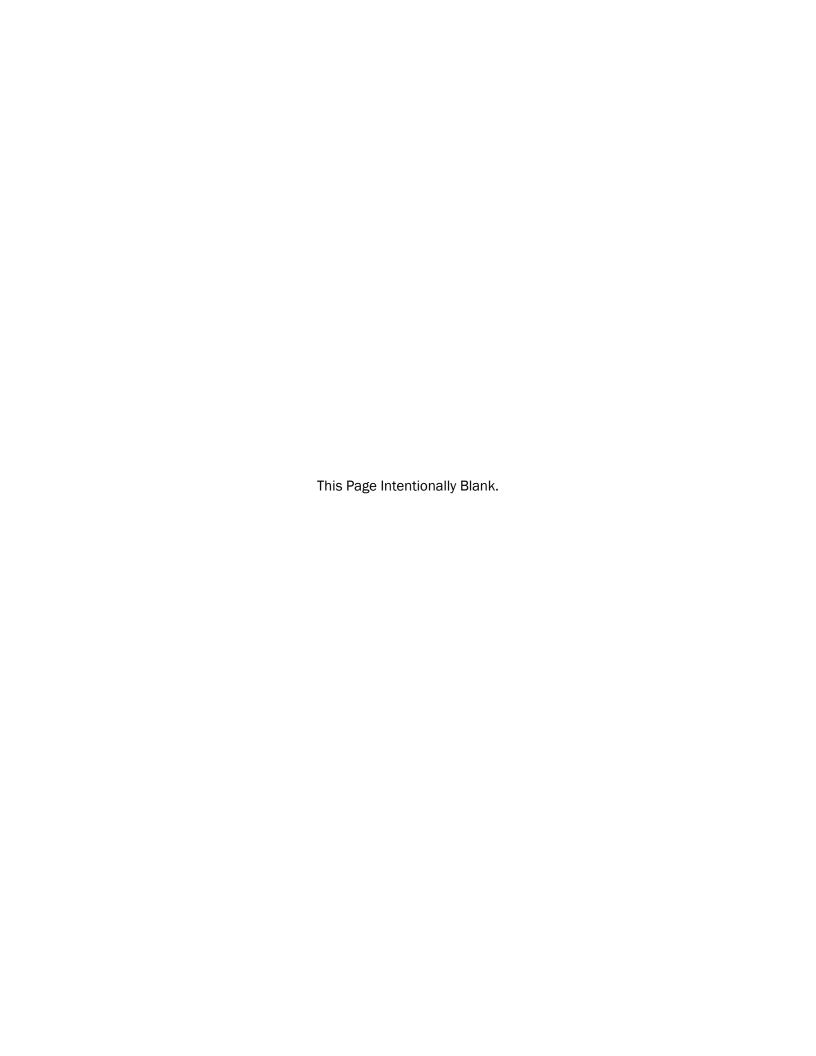


Public Review and Board Action

A summary of the public review process and actions taken by the Board of Directors and the Board's Finance Committee during the course of the studies is included in this section.

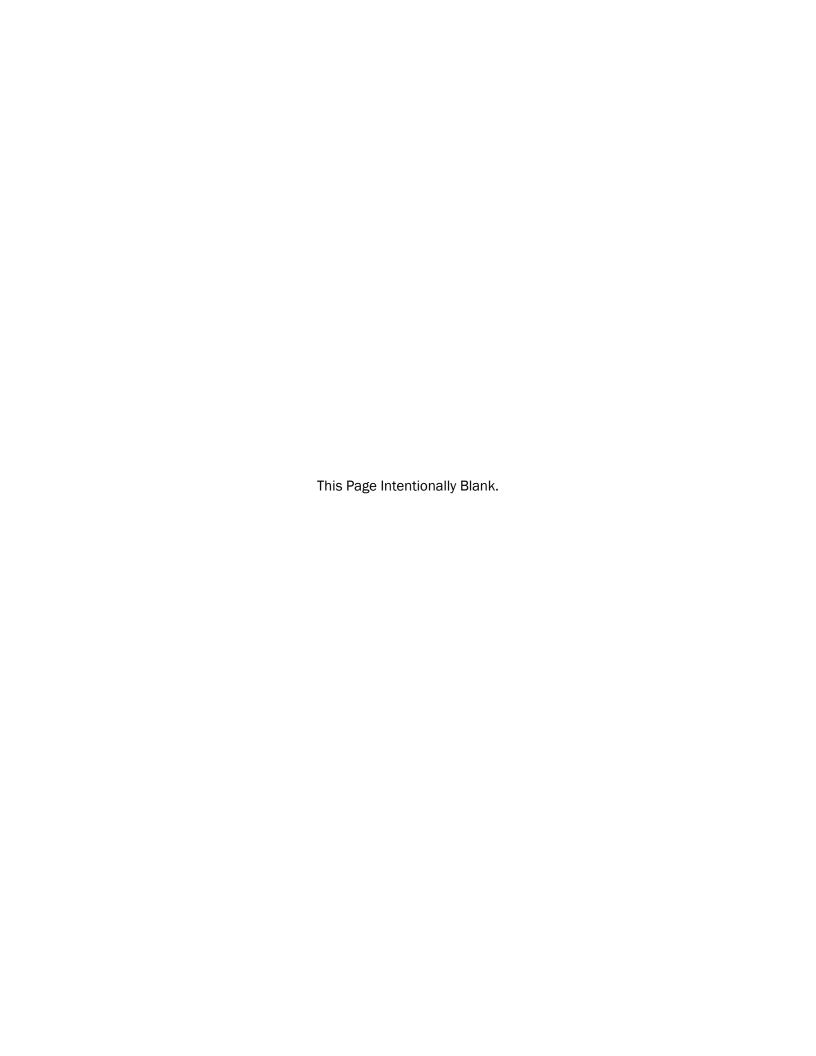
Finance Committee. District staff evaluated water and wastewater rates with its Board's Finance Committee on March 1 and March 15, 2013.

Board of Directors. District staff plan presented findings and recommendations from the draft report of the water and wastewater charge study to the Board of Directors at the March 21, 2013 meeting. The Board of Directors approved the start of the notification procedure required by Proposition 218 for the adoption of rate increases.



Limitations

This document was prepared solely for the San Lorenzo Valley Water District in accordance with professional standards at the time the services were performed and in accordance with the contract between San Lorenzo Valley Water District and Municipal Financial Services. This document is governed by the specific scope of work authorized by San Lorenzo Valley Water District; it is not intended to be relied upon by any other party. We have relied on information or instructions provided by San Lorenzo Valley Water District and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.



Appendix A: Monthly Water Use - 2010, 2011 and 2012 and Meters as of October 2012

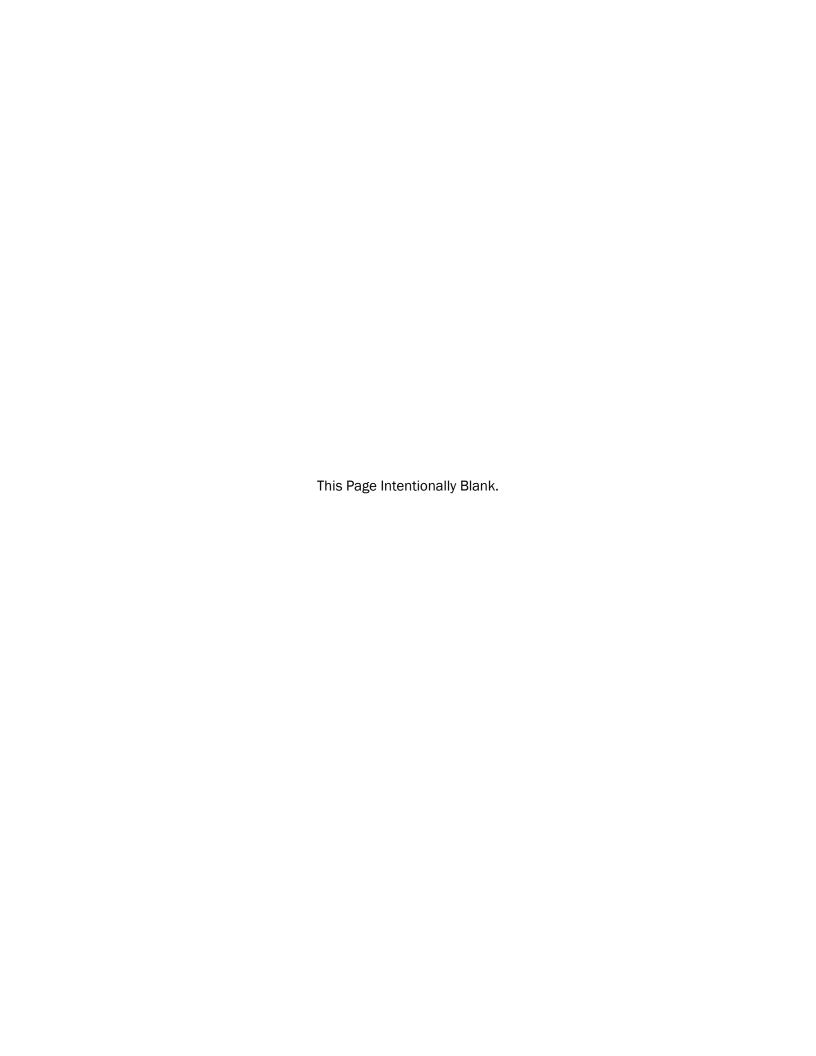


Table A-1 Water Use by Tiers and Customer Class, 2010-2012

USE CODE		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
R	First 10 units	25,410	21,373	24,105	22,656	25,905	23,786	28,259	25,607	28,013	25,183	26,648	22,328
R	11 - 40 units	13,544	6,312	8,765	8,087	15,615	13,118	36,654	22,478	36,936	19,443	25,383	8,322
R	41 - 100 units	1,574	654	690	689	1,660	1,642	11,437	5,271	12,012	3,933	4,623	987
R R	101 - 200 units Over 200 units	336 81	287 136	36 19	187 62	252 108	215 83	1,925 663	958 500	1,788 495	1,189 368	388 518	255 138
MR	First 10 units	1,967	2,538	1,941	2,615	1,940	2,644	2,039	2,703	2,078	2,681	2,025	2,591
MR	11 - 40 units	2,090	2,339	1,796	2,859	2,184	3,285	3,358	4,122	3,465	3,746	2,713	2,578
MR	41 - 100 units	880	646	681	810	744	1,264	1,296	1,960	1,374	1,388	922	659
MR	101 - 200 units	469	183	472	246	479	465	570	756	602	520	678	229
MR	Over 200 units	3,946	11	3,186	16	4,614	76	6,502	229	6,515	35	5,129	166
C	First 10 units	911	586	934	578	955	614	1,029	663	971	650	946	609
С	11 - 40 units	1,124	657	1,033	780	1,116	902	1,498	1,021	1,400	958	1,201	765
С	41 - 100 units	618	372	656	425	837	714	1,012	910	983	599	847	422
C	101 - 200 units	305	127	283	216	345	237	885	477	491	334	211	207
C	Over 200 units	105		63	4	107	23	260	378	94	400	48	91
!	First 10 units	257 404	122	261 401	124	291 517	132	300	136	291	136	294	141
! !	11 - 40 units 41 - 100 units	491 558	166 282	401 443	173 272	517 607	252 347	654 903	280 447	660 918	300 480	601 764	282 401
I	101 - 200 units	474	292	422	263	539	425	1,231	700	1,300	725	876	290
I	Over 200 units	439	102	400	33	543	606	5,057	1,769	5,723	1,386	2,430	267
L	First 10 units	35	26	27	30	38	30	44	30	40	40	38	40
L	11 - 40 units	45	7	37	37	50	48	109	60	94	89	84	52
L	41 - 100 units	44		55	32		60	71	99	84	87	74	60
L	101 - 200 units						100	72	100	25	100	4	100
L	Over 200 units						698		1,963		986		16
PM	First 10 units	30	30	30	30	30	30	30	30	30	30	30	10
PM	11 - 40 units	90	90	71	90	63	90	90	90	90	90	90	30
PM	41 - 100 units	126	180	120	180	120	180	180	180	155	180	123	36
PM PM	101 - 200 units Over 200 units	200 73	206 536	200 292	239 535	200 196	283 544	272 474	233 1,529	200 716	293 1,291	200 358	-2 -585
S	First 10 units	73 22	330	292 1	333	5		19	1,323	27	1,231	44	-363
S	11 - 40 units	6		•		J		5		21		27	
S	41 - 100 units	ŭ											
S	101 - 200 units												
S	Over 200 units												
0	First 10 units	35		32		29		34		40		38	
0	11 - 40 units	56		51		23		57		68		55	
0	41 - 100 units	31		60				25		33		2	
0	101 - 200 units			8									
0 V	Over 200 units		4						12	10	20	5	5
V V	First 10 units 11 - 40 units		1			8	6	11	13 4	10	30 7	э	5
V	41 - 100 units								7		'		
V	101 - 200 units												
V	Over 200 units												
TOTAL		56,372	38,261	47,571	42,268	60,120	52,899	107,025	75,696	107,721	67,677	78,417	41,490
SUMMAR	Y BY CLASS												
R		40,945	28,762	33,615	31,681	43,540	38,844	78,938	54,814	79,244	50,116	57,560	32,030
MR		9,352	5,717	8,076	6,546	9,961	7,734	13,765	9,770	14,034	8,370	11,467	6,223
С		3,063	1,742	2,969	2,003	3,360	2,490	4,684	3,449	3,939	2,941	3,253	2,094
I		2,219	964	1,927	865	2,497	1,762	8,145	3,332	8,892	3,027	4,965	1,381
L		124	33	119	99	88	936	296	2,252	243	1,302	200	268
PM		519	1,042	713	1,074	609	1,127	1,046	2,062	1,191	1,884	801	-511
S		28	0	1	0	5	0	24	0	27	0	71	0
0 v		122	0	151	0	52	0	116	0	141	0	95 5	0
V TOTAL		56,372	38,261	47,571	42,268	60,120	52,899	11 107,025	75,696	10 107,721	67,677	78,417	41,490
	VOVEED	30,372	30,201	41,311	42,200	00,120	32,033	107,023	13,030	101,121	01,011	10,411	41,430
SUMMAR'		00.00=	04.070	07.004	00.000	00.001	07.010	04.705	00.400	04.500	00.750	00.000	05.50
First 10 u		28,667	24,676	27,331	26,033	29,201	27,242	31,765	29,182	31,500	28,750	30,068	25,724
11 - 40 ur 41 - 100 ı		17,446 3,831	9,571 2,134	12,154 2,705	12,026 2,408	19,568 3,968	17,695 4,207	42,425 14,924	28,055 8,867	42,713 15,559	24,633 6,667	30,154 7,355	12,029 2,565
	uiiitə			2,705 1,421	2,408 1,151	3,968 1,815	4,20 <i>7</i> 1,725	4,955	3,224	4,406	3,161	2,355	1,079
) units	1 / 2/1											
101 - 200		1,784 4.644	1,095 785										
		1,784 4,644 56,372	785 38,261	3,960 47,571	650 42,268	5,568 60,120	2,030	12,956 107,025	6,368 75,696	13,543	4,466 67,677	8,483 78,417	93

Table A-1 Water Use by Tiers and Customer Class, 2010-2012

USE CODE	TIER	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
R	First 10 units	25,422	22,157	24,598	22,253	26,308	23,715	27,939	25,371	28,164	24,893	26,313	22,422
R	11 - 40 units	12,151	7,492	10,020	7,623	17,007	12,574	32,188	20,736	36,101	17,189	20,630	8,162
R	41 - 100 units	1,126	988	1,031	632	2,025	1,538	8,406	4,368	11,403	3,490	3,176	981
R	101 - 200 units	118	353	225	358	541	339	1,470	561	1,564	779	488	156
R	Over 200 units	98	54	38	229	414	65	554	137	828	98	151	
MR	First 10 units	1,963	2,564	1,935	2,581	1,947	2,638	2,021	2,715	2,011	2,668	1,976	2,571
MR	11 - 40 units	2,225	2,771	1,868	2,849	2,243	3,346	3,188	4,154	3,373	3,603	2,375	2,704
MR	41 - 100 units	758	832	664	959	734	1,354	1,269	1,928	1,371	1,410	772	944
MR	101 - 200 units	516	277	458	248	456	462	524	775	601	673	445	542
MR C	Over 200 units	4,529 920	703 600	3,494 926	65 622	4,670 956	41 643	6,512 1,007	403 703	6,918 1,020	99 639	4,512 984	36 608
	First 10 units												
C C	11 - 40 units 41 - 100 units	1,122 734	790 427	1,098 667	864 573	1,167 837	957 711	1,395 1,022	1,161 966	1,477 1,037	1,015 688	1,190 898	862 455
C	101 - 200 units	190	204	144	193	297	290	673	519	668	336	469	132
C	Over 200 units	53	204	21	133	40	35	246	415	257	185	27	102
I	First 10 units	265	137	261	144	279	138	288	145	289	135	280	138
i I	11 - 40 units	427	247	425	248	547	280	639	327	620	313	541	281
I	41 - 100 units	510	325	471	385	699	431	925	543	873	550	680	471
I	101 - 200 units	613	277	519	215	923	603	1,184	804	1,300	732	813	361
I	Over 200 units	992	431	605	174	1,582	594	5,366	1,648	5,973	1,584	2,023	51
L	First 10 units	21	39	30	40	40	40	40	40	32	30	30	31
L	11 - 40 units	44	62	44	50	59	97	97	95	90	60	55	43
L	41 - 100 units	5	120	46	60	60	168	67	143	95	120		60
L	101 - 200 units		38		100	29	110		146	94	116		22
L	Over 200 units				36		809		1,650		641		
PM	First 10 units	30	30	30	30	30	30	30	30	30	30	30	30
PM	11 - 40 units	90	90	85	90	86	90	90	90	90	90	90	90
PM	41 - 100 units	124	155	120	147	120	160	142	180	169	180	120	157
PM	101 - 200 units	200	165	200	125	200	200	200	245	200	221	200	161
PM S	Over 200 units	263 8	379	126 5		190 17	777	531 27	2,066	530 35	1,085	180 30	325
s S	First 10 units 11 - 40 units	0		3		17		9		35 8		30 7	
S	41 - 100 units							3		0		,	
S	101 - 200 units												
S	Over 200 units												
0	First 10 units	30		29		29		36		40		40	
0	11 - 40 units	26		16		24		56		60		55	
0	41 - 100 units							6					
0	101 - 200 units												
0	Over 200 units												
V	First 10 units	1	2		2	2	2	6	12	7	9	3	3
V	11 - 40 units												
V	41 - 100 units												
V	101 - 200 units												
V	Over 200 units	FF F74	40.700	FO 100	44.005	C4 FF0	F2 027	00.450	70.070	107.000	00.004	CO FO2	40.700
TOTAL		55,574	42,709	50,199	41,895	64,558	53,237	98,153	73,076	107,328	63,661	69,583	42,799
SUMMARY	BY CLASS												
R		38,915	31,044	35,912	31,095	46,295	38,231	70,557	51,173	78,060	46,449	50,758	31,721
MR		9,991	7,147	8,419	6,702	10,050	7,841	13,514	9,975	14,274	8,453	10,080	6,797
C		3,019	2,021	2,856	2,252	3,297	2,636	4,343	3,764	4,459	2,863	3,568	2,057
!		2,807	1,417	2,281	1,166	4,030	2,046	8,402	3,467	9,055	3,314	4,337	1,302
L		70 707	259	120	286	188	1,224	204	2,074	311	967	85 620	156
PM S		707 8	819 0	561 5	392 0	626 17	1,257 0	993 36	2,611 0	1,019 43	1,606 0	620 37	763 0
ა 0		56	0	5 45	0	53	0	98	0	100	0	95	0
V		1	2	0	2	2	2	6	12	7	9	3	3
TOTAL		55,574	42,709	50,199	41,895	64,558	53,237	98,153	73,076	107,328	63,661	69,583	42,799
	DVTIED	55,017	,. 00	55,100	,000	5.,000	55,251	55,100	. 5,010	20.,020	55,001	55,000	,. 00
SUMMARY		20 000	25 520	27.044	05.670	20.000	27 200	21 204	20.010	24 600	20 404	20.000	25 002
First 10 un		28,660 16.085	25,529	27,814 13 556	25,672	29,608	27,206 17 344	31,394	29,016	31,628 41,810	28,404	29,686	25,803
11 - 40 uni 41 - 100 u		16,085 3,257	11,452 2,847	13,556 2,999	11,724 2,756	21,133 4,475	17,344 4,362	37,662 11,837	26,563 8,128	41,819 14,948	22,270 6,438	24,943 5,646	12,142 3,068
101 - 200 u		3,25 <i>1</i> 1,637	2,84 <i>1</i> 1,314	2,999 1,546	1,239	4,475 2,446	2,004	4,051	3,050	4,427	2,857	2,415	1,374
Over 200 u		5,935	1,514	4,284	504	6,896	2,321	13,209	6,319	14,506	3,692	6,893	412
TOTAL		55,574	42,709	50,199	41,895	64,558	53,237	98,153	73,076	107,328	63,661	69,583	42,799
JINL		55,514	72,103	55,155	71,000	0-1,000	55,251	55,155	10,010	101,020	00,001	00,000	72,133

Table A-1 Water Use by Tiers and Customer Class, 2010-2012

USE CODI		Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	0ct-12	Nov-12	Dec-12
}	First 10 units	26,131	22,686	25,187	21,602	26,169	24,539	28,452	25,239	28,211	24,754	27,225	22,066
}	11 - 40 units	15,314	8,587	12,425	6,334	15,860	16,277	38,911	21,747	37,048	18,362	25,909	7,715
₹ ₹	41 - 100 units 101 - 200 units	1,987 646	898 355	1,075 375	575 263	1,401 296	2,600 110	12,985 2,300	6,100	11,950 1,652	4,005 514	5,505 817	852 241
r R	Over 200 units	732	45	57	263 73	368	142	1,217	1,112 412	1,367	92	644	241
NR	First 10 units	1,955	2,604	1,923	2,558	1,931	2,683	2,012	2,726	1,987	2,668	1,983	2,574
MR	11 - 40 units	2,301	2,977	1,979	2,675	2,109	3,805	3,544	4,214	3,283	3,812	2,705	2,629
MR	41 - 100 units	837	1,176	749	865	707	1,834	1,484	2,110	1,416	1,594	953	903
MR	101 - 200 units	495	427	444	260	458	822	665	862	862	565	459	239
MR	Over 200 units	5,200	160	3,900	127	4,766	437	8,726	345	8,226	125	7,128	
C	First 10 units	924	613	927	587	949	654	1,001	687	987	675	999	611
2	11 - 40 units	1,070	884	982	735	1,103	964	1,470	1,110	1,371	1,117	1,321	734
C	41 - 100 units	727	590	736	466	875	704	1,116	789	964	799	917	395
С	101 - 200 units	281	170	236	109	427	401	734	538	670	445	477	230
С	Over 200 units	40		16		35	7	281	75	78	203	28	311
	First 10 units	266	135	269	131	275	123	293	127	294	127	294	135
l	11 - 40 units	465	276	477	232	516	296	615	302	640	306	582	313
] 	41 - 100 units	547	370	541	360	561	461	898	489	900	489	792	437
I	101 - 200 units Over 200 units	712 1,444	253 76	659 942	293 14	651 1,597	700 1,098	1,274 7,801	712 2,682	1,279 6,014	716 1,397	910 2,242	406 375
L	First 10 units	30	76 30	30	40	30	40	7,801 30	2,002 37	30	30	30	375 21
<u>-</u> L	11 - 40 units	45	67	49	84	71	94	90	70	90	61	86	8
- L	41 - 100 units	2	31	51	120	20	180	112	120	91	120	76	·
_ L	101 - 200 units				92		230	17	179		124		
L	Over 200 units						1,471		1,648		743		
PM	First 10 units	30	30	30	30	30	30	30	30	30	20	30	30
PM	11 - 40 units	90	90	85	90	90	90	90	90	90	60	90	90
PM	41 - 100 units	121	158	120	142	130	178	180	180	162	120	134	86
PM	101 - 200 units	200	151	197	143	200	200	205	201	200	108	200	83
PM	Over 200 units	61	302	76	273	184	850	531	243	391	104	206	
S	First 10 units	26		12		14		25		39		51	
S	11 - 40 units	15						20		69		62	
S	41 - 100 units									69		10	
S S	101 - 200 units Over 200 units									22			
ა 0	First 10 units	36		34		39		40		37		36	
0	11 - 40 units	20		23		27		81		80		52	
0	41 - 100 units							5		6		8	
0	101 - 200 units												
0	Over 200 units												
V	First 10 units	1	3		2	2	9	4	28	8	17	2	5
V	11 - 40 units								4				
V	41 - 100 units												
V	101 - 200 units												
V	Over 200 units	00 == 1	4444	E4 000	20.075	04.004	00.000	117.000		110.010	04.070	00.000	44.400
TOTAL		62,751	44,144	54,606	39,275	61,891	62,029	117,239	75,208	110,613	64,272	82,963	41,489
SUMMAR	Y BY CLASS												
R		44,810	32,571	39,119	28,847	44,094	43,668	83,865	54,610	80,228	47,727	60,100	30,874
MR		10,788	7,344	8,995	6,485	9,971	9,581	16,431	10,257	15,774	8,764	13,228	6,345
C		3,042	2,257	2,897	1,897	3,389	2,730	4,602	3,199	4,070	3,239	3,742	2,281
I		3,434	1,110	2,888	1,030	3,600	2,678	10,881	4,312	9,127	3,035	4,820	1,666
				100	336	121	2,015	249	2,054	211	1,078	192	29
		77	128	130		00.4			744	873	412	660	289
PM		502	731	508	678	634	1,348	1,036		100			
L PM S		502 41	731 0	508 12	678 0	14	0	45	0	199 123	0	123	0
PM S O		502 41 56	731 0 0	508 12 57	678 0 0	14 66	0 0	45 126	0 0	123	0 0	123 96	0
PM S O V		502 41 56 1	731 0 0 3	508 12 57 0	678 0 0 2	14 66 2	0 0 9	45 126 4	0 0 32	123 8	0 0 17	123 96 2	0 0 5
PM S O V TOTAL	NV DV TIED	502 41 56	731 0 0	508 12 57	678 0 0	14 66	0 0	45 126	0 0	123	0 0	123 96	0 0 5
PM S O V TOTAL SUMMAR	Y BY TIER	502 41 56 1 62,751	731 0 0 3 44,144	508 12 57 0 54,606	678 0 0 2 39,275	14 66 2 61,891	0 0 9 62,029	45 126 4 117,239	0 0 32 75,208	123 8 110,613	0 0 17 64,272	123 96 2 82,963	0 0 5 41,489
PM S O V TOTAL SUMMAR First 10 u	nits	502 41 56 1 62,751 29,399	731 0 0 3 44,144 26,101	508 12 57 0 54,606	678 0 0 2 39,275 24,950	14 66 2 61,891 29,439	0 0 9 62,029 28,078	45 126 4 117,239 31,887	0 0 32 75,208 28,874	123 8 110,613 31,623	0 0 17 64,272 28,291	123 96 2 82,963 30,650	0 0 5 41,489 25,442
PM S O V TOTAL SUMMAR First 10 ur	nits nits	502 41 56 1 62,751 29,399 19,320	731 0 0 3 44,144 26,101 12,881	508 12 57 0 54,606 28,412 16,020	678 0 0 2 39,275 24,950 10,150	14 66 2 61,891 29,439 19,776	0 0 9 62,029 28,078 21,526	45 126 4 117,239 31,887 44,821	0 0 32 75,208 28,874 27,537	123 8 110,613 31,623 42,671	0 0 17 64,272 28,291 23,718	123 96 2 82,963 30,650 30,807	0 0 5 41,489 25,442 11,489
PM S O V TOTAL SUMMAR First 10 u 11 - 40 u 41 - 100 u	nits nits units	502 41 56 1 62,751 29,399 19,320 4,221	731 0 0 3 44,144 26,101 12,881 3,223	508 12 57 0 54,606 28,412 16,020 3,272	678 0 0 2 39,275 24,950 10,150 2,528	14 66 2 61,891 29,439 19,776 3,694	0 0 9 62,029 28,078 21,526 5,957	45 126 4 117,239 31,887 44,821 16,780	0 0 32 75,208 28,874 27,537 9,788	123 8 110,613 31,623 42,671 15,558	0 0 17 64,272 28,291 23,718 7,127	123 96 2 82,963 30,650 30,807 8,395	0 0 5 41,489 25,442 11,489 2,673
PM S O V TOTAL SUMMAR First 10 ur	nits nits units O units	502 41 56 1 62,751 29,399 19,320	731 0 0 3 44,144 26,101 12,881	508 12 57 0 54,606 28,412 16,020	678 0 0 2 39,275 24,950 10,150	14 66 2 61,891 29,439 19,776	0 0 9 62,029 28,078 21,526	45 126 4 117,239 31,887 44,821	0 0 32 75,208 28,874 27,537	123 8 110,613 31,623 42,671	0 0 17 64,272 28,291 23,718	123 96 2 82,963 30,650 30,807	0 0 5 41,489

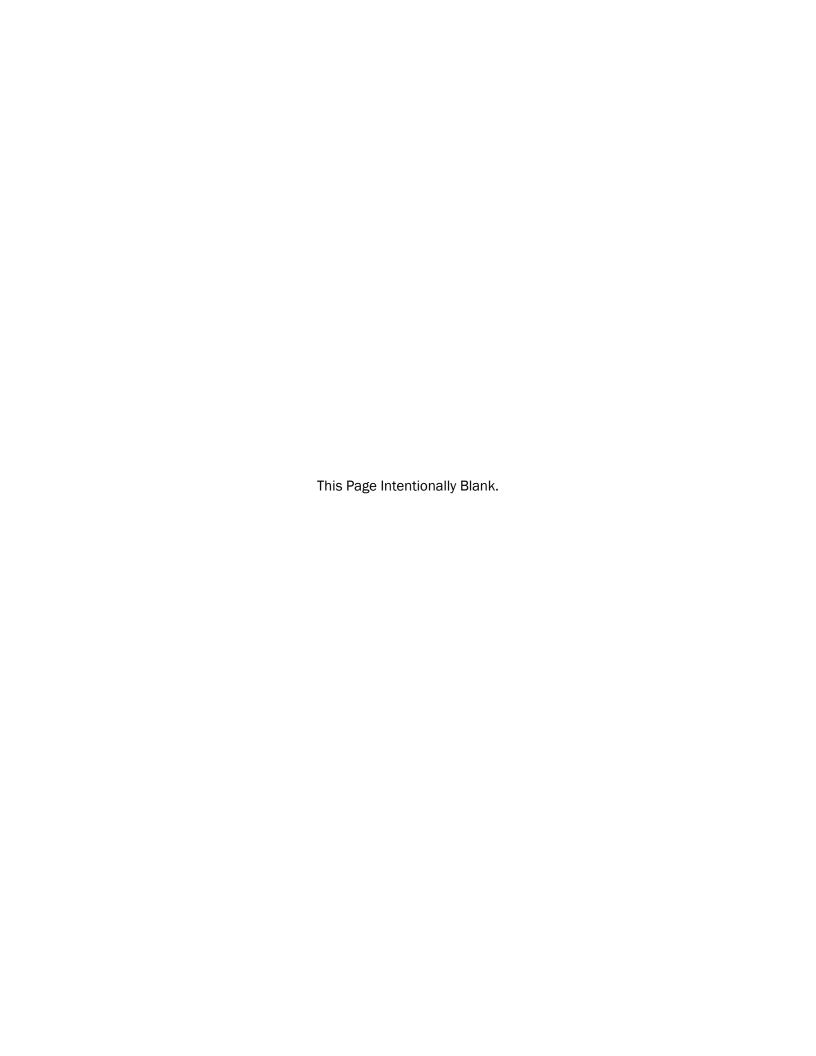


Table A-2 Water Use by Tiers and Customer Class, 2010-2012

USE CODE	TIER	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
R	First 8 units	21,590	18,881	20,872	19,701	21,923	20,379	23,247	21,472	23,051	21,260	22,276	19,484
R	9 - 30 units	16,197	8,378	11,419	10,521	18,159	15,204	34,830	23,233	34,780	20,696	26,016	10,425
R	31 - 100 units	2,695	1,064	1,239	1,200	3,086	2,963	18,265	8,639	19,096	6,603	8,344	1,708
R	101 - 200 units	336	287	36	187	252	215	1,925	958	1,788	1,189	388	255
R	Over 200 units	81	136	19	62	108	83	663	500	495	368	518	138
MR	First 8 units	1,619	2,119	1,611	2,163	1,589	2,179	1,650	2,211	1,678	2,201	1,650	2,149
MR	9 - 30 units	2,058	2,420	1,866	2,834	2,210	3,163	3,087	3,785	3,144	3,507	2,630	2,627
MR	31 - 100 units	1,260	984	941	1,287	1,069	1,851	1,956	2,789	2,095	2,107	1,380	1,052
MR	101 - 200 units	469	183	472	246	479	465	570	756	602	520	678	229
MR	Over 200 units First 8 units	3,946 771	11 500	3,186 789	16 489	4,614 807	76 518	6,502 852	229 550	6,515 797	35 542	5,129 791	166 518
C	9 - 30 units	995	621	973	691		787	1,332	887		841		687
C	31 - 100 units	995 887	494	861	603	1,026 1,075	925	1,352	1,157	1,253 1,296	824	1,099 1,104	591
C	101 - 200 units	305	127	283	216	345	237	885	477	491	334	211	207
C	Over 200 units	105	121	63	4	107	23	260	378	94	400	48	91
ĭ	First 8 units	257	122	261	124	291	132	300	136	291	136	294	141
i	9 - 30 units	491	166	401	173	517	252	654	280	660	300	601	282
i	31 - 100 units	558	282	443	272	607	347	903	447	918	480	764	401
I	101 - 200 units	474	292	422	263	539	425	1,231	700	1,300	725	876	290
I	Over 200 units	439	102	400	33	543	606	5,057	1,769	5,723	1,386	2,430	267
L	First 8 units	29	23	23	25	32	24	36	24	32	32	32	32
L	9 - 30 units	41	10	31	32	48	44	87	46	74	68	66	50
L	31 - 100 units	54		65	42	8	70	101	119	112	116	98	70
L	101 - 200 units						100	72	100	25	100	4	100
L	Over 200 units						698		1,963		986		16
PM	First 8 units	24	24	24	24	24	24	24	24	24	24	24	8
PM	9 - 30 units	66	66	57	66	49	66	66	66	66	66	66	22
PM	31 - 100 units	156	210	140	210	140	210	210	210	185	210	153	46
PM	101 - 200 units	200	206	200	239	200	283	272	233	200	293	200	-2
PM S	Over 200 units	73 18	536	292 1	535	196	544	474	1,529	716	1,291	358 38	-585
	First 8 units			1		5		17 7		25 2			
S S	9 - 30 units	10						7		2		33	
S	31 - 100 units 101 - 200 units												
S	Over 200 units												
0	First 8 units	29		26		25		28		32		32	
0	9 - 30 units	52		47		27		53		66		51	
0	31 - 100 units	41		70				35		43		12	
0	101 - 200 units			8									
0	Over 200 units												
V	First 8 units		1			8	6	11	11	10	25	5	5
V	9 - 30 units								6		12		
V	31 - 100 units												
V	101 - 200 units												
V	Over 200 units												
TOTAL		56,326	38,245	47,541	42,258	60,108	52,899	107,013	75,684	107,679	67,677	78,399	41,470
SUMMARY	BY CLASS												
R		40,899	28,746	33,585	31,671	43,528	38,844	78,930	54,802	79,210	50,116	57,542	32,010
MR		9,352	5,717	8,076	6,546	9,961	7,734	13,765	9,770	14,034	8,370	11,467	6,223
С		3,063	1,742	2,969	2,003	3,360	2,490	4,680	3,449	3,931	2,941	3,253	2,094
I		2,219	964	1,927	865	2,497	1,762	8,145	3,332	8,892	3,027	4,965	1,381
L		124	33	119	99	88	936	296	2,252	243	1,302	200	268
PM		519	1,042	713	1,074	609	1,127	1,046	2,062	1,191	1,884	801	-511
S		28	0	1	0	5	0	24	0	27	0	71	0
0		122	0	151	0	52	0	116	0	141	0	95	0
V		6 326	20.245	<u> </u>	42.259	60 109	6	107.012	17 75 694	107.670	37 67.677	79 200	41.470
TOTAL		56,326	38,245	47,541	42,258	60,108	52,899	107,013	75,684	107,679	67,677	78,399	41,470
SUMMARY													
First 8 unit		24,337	21,670	23,607	22,526	24,704	23,262	26,165	24,428	25,940	24,220	25,142	22,337
9 - 30 units		19,910	11,661	14,794	14,317	22,036	19,516	40,116	28,303	40,045	25,490	30,562	14,093
31 - 100 u		5,651	3,034	3,759	3,614	5,985	6,366	22,821	13,361	23,745	10,340	11,855	3,868
101 - 200		1,784	1,095	1,421	1,151	1,815	1,725	4,955	3,224	4,406	3,161	2,357	1,079
Over 200 u	inits	4,644	785	3,960	650	5,568	2,030	12,956	6,368	13,543	4,466	8,483	93
TOTAL		56,326	38,245	47,541	42,258	60,108	52,899	107,013	75,684	107,679	67,677	78,399	41,470

Table A-2 Water Use by Tiers and Customer Class, 2010-2012

USE CODE	TIER	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
R	First 8 units	21,674	19,372	21,183	19,436	22,184	20,370	23,111	21,398	23,199	21,107	22,204	19,622
R	9 - 30 units	14,866	9,785	12,691	9,889	19,487	14,585	31,476	21,712	34,331	18,668	22,082	10,255
R	31 - 100 units	2,107	1,480	1,739	1,163	3,649	2,866	13,946	7,359	18,132	5,777	5,833	1,688
R R	101 - 200 units Over 200 units	118 98	353 54	225 38	358 229	541 414	339 65	1,470 554	561 137	1,564 828	779 98	488 151	156
MR	First 8 units	1,606	2,115	1,602	2,127	1,603	2,175	1,636	2,218	020 1,635	2,181	1,620	2,136
MR	9 - 30 units	2,210	2,738	1,923	2,811	2,270	3,172	2,970	3,779	3,099	3,381	2,311	2,130
MR	31 - 100 units	1,130	1,314	942	1,451	1,051	1,991	1,872	2,800	2,021	2,119	1,192	1,414
MR	101 - 200 units	516	277	458	248	456	462	524	775	601	673	445	542
MR	Over 200 units	4,529	703	3,494	65	4,670	41	6,512	403	6,918	99	4,512	36
С	First 8 units	782	510	782	529	804	539	835	584	848	536	820	519
С	9 - 30 units	1,006	709	996	761	1,040	828	1,237	982	1,294	867	1,081	744
С	31 - 100 units	988	598	913	769	1,116	944	1,352	1,262	1,392	939	1,171	662
C	101 - 200 units	190	204	144	193	297	290	673	519	668	336	469	132
C	Over 200 units	53		21		40	35	246	415	257	185	27	
!	First 8 units	265 407	137	261 405	144	279	138	288	145	289	135	280	138
! !	9 - 30 units 31 - 100 units	427 510	247 325	425 471	248 385	547 699	280 431	639 925	327 543	620 873	313 550	541 680	281 471
! !	101 - 200 units	613	277	519	215	923	603	1,184	804	1,300	732	813	361
i	Over 200 units	992	431	605	174	1,582	594	5,366	1,648	5,973	1,584	2,023	51
<u>.</u> L	First 8 units	17	32	24	32	32	32	32	32	26	24	2,023	25
Ĺ	9 - 30 units	38	49	40	48	57	75	75	73	66	46	56	39
L	31 - 100 units	15	140	56	70	70	198	97	173	125	140	5	70
L	101 - 200 units		38		100	29	110		146	94	116		22
L	Over 200 units				36		809		1,650		641		
PM	First 8 units	24	24	24	24	24	24	24	24	24	24	24	24
PM	9 - 30 units	66	66	66	66	66	66	66	66	66	66	66	66
PM	31 - 100 units	154	185	145	177	146	190	172	210	199	210	150	187
PM	101 - 200 units	200	165	200	125	200	200	200	245	200	221	200	161
PM S	Over 200 units First 8 units	263 8	379	126 5	547	190 17	777	531 25	2,066	530 31	1,085	180 28	325
S	9 - 30 units	0		J		11		11		12		9	
S	31 - 100 units											Ū	
S	101 - 200 units												
S	Over 200 units												
0	First 8 units	26		25		25		30		32		32	
0	9 - 30 units	29		20		28		52		59		63	
0	31 - 100 units	1						16		9			
0	101 - 200 units												
0 V	Over 200 units												
•	First 8 units	1	2		2	2	2	6	11	1	9	3	3
V V	9 - 30 units 31 - 100 units												
V	101 - 200 units												
V	Over 200 units												
TOTAL	0101 200 41110	55,522	42,709	50,163	42,422	64,538	53,231	98,153	73,067	107,322	63,641	69,583	42,799
SUMMARY	RVCLASS	•	,	,	•	,	,	,	•	,	•	,	,
R	DI CLASS	38,863	31,044	35,876	31,075	46,275	38,225	70,557	51,167	78,054	46,429	50,758	31,721
MR		9,991	7,147	8,419	6,702	10,050	7,841	13,514	9,975	14,274	8,453	10,080	6,797
C		3,019	2,021	2,856	2,252	3,297	2,636	4,343	3,762	4,459	2,863	3,568	2,057
Ī		2,807	1,417	2,281	1,166	4,030	2,046	8,402	3,467	9,055	3,314	4,337	1,302
L		70	259	120	286	188	1,224	204	2,074	311	967	85	156
PM		707	819	561	939	626	1,257	993	2,611	1,019	1,606	620	763
S		8	0	5	0	17	0	36	0	43	0	37	0
0		56	0	45	0	53	0	98	0	100	0	95	0
V		1	2	0	2	2	52.024	6	72.007	7	9	3	3
TOTAL		55,522	42,709	50,163	42,422	64,538	53,231	98,153	73,067	107,322	63,641	69,583	42,799
SUMMARY	BY TIER												
First 8 unit		24,403	22,192	23,906	22,294	24,970	23,280	25,987	24,412	26,091	24,016	25,035	22,467
9 - 30 units		18,642	13,594	16,161	13,823	23,495	19,006	36,526	26,939	39,547	23,341	26,209	14,054
31 - 100 u		4,905	4,042	4,266	4,015	6,731	6,620	18,380	12,347	22,751	9,735	9,031	4,492
101 - 200 Over 200 u		1,637 5,935	1,314 1,567	1,546 4,284	1,239 1,051	2,446 6,896	2,004 2,321	4,051 13,209	3,050 6,319	4,427 14,506	2,857 3,692	2,415 6,893	1,374 412
TOTAL	unto	55,522	42,709	50,163	42,422	64,538	53,231	98,153	73,067	107,322	63,641	69,583	412
TOTAL		55,522	42,709	50,103	42,422	04,338	55,251	30,133	13,007	101,322	03,041	05,563	42,133

Table A-2 Water Use by Tiers and Customer Class, 2010-2012

USE CODE		Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
₹	First 8 units	22,168	19,750	21,553	19,052	22,116	20,889	23,391	21,303	23,273	20,984	22,750	19,325
}	9 - 30 units	17,792	10,858	14,933	8,532	18,530	17,875	36,403	22,195	34,845	19,590	26,521	9,793
}	31 - 100 units 101 - 200 units	3,472 646	1,563 355	2,179 375	927 263	2,784 296	4,652 110	20,554	9,588	19,091	6,547 514	9,467 864	1,515 241
R R	Over 200 units	732	45	57	73	368	142	2,300 1,217	1,112 412	1,652 1,367	92	644	241
NR	First 8 units	1,606	2,149	1,587	2,118	1,586	2,198	1,628	2,225	1,616	2,185	1,617	2,137
MR	9 - 30 units	2,242	2,894	1,986	2,667	2,136	3,502	3,184	3,790	2,995	3,533	2,630	2,636
MR	31 - 100 units	1,245	1,714	1,078	1,313	1,025	2,622	2,228	3,035	2,073	2,356	1,394	1,333
MR	101 - 200 units	495	427	444	260	458	822	665	862	862	565	459	239
MR	Over 200 units	5,200	160	3,900	127	4,766	437	8,726	345	8,226	125	7,128	
C	First 8 units	777	519	789	499	798	551	829	572	825	563	830	515
С	9 - 30 units	949	767	866	664	980	847	1,300	948	1,227	959	1,192	683
С	31 - 100 units	991	801	990	625	1,149	924	1,458	1,066	1,270	1,069	1,215	536
С	101 - 200 units	281	170	236	109	427	401	734	538	670	445	477	230
C	Over 200 units	40		16		35	7	281	75	78	203	28	311
!	First 8 units	266 465	135	269	131	275	123	293	127	294	127	294	135
! !	9 - 30 units 31 - 100 units	465 547	276 370	477 541	232 360	516 561	296 461	615 898	302 489	640 900	306 489	582 792	313 437
! !	101 - 200 units	712	253	659	293	651	700	1,274	712	1,279	716	910	406
I	Over 200 units	1,444	255 76	942	293 14	1,597	1,098	7,801	2,682	6,014	1,397	2,242	375
<u>.</u> L	First 8 units	24	24	24	32	24	32	7,801 24	2,082	24	24	2,242	17
L	9 - 30 units	41	54	45	70	60	72	66	56	66	47	66	12
- L	31 - 100 units	12	50	61	142	37	210	142	140	121	140	102	
L	101 - 200 units				92		230	17	179		124		
L	Over 200 units						1,471		1,648		743		
PM	First 8 units	24	24	24	24	24	24	24	24	24	16	24	24
PM	9 - 30 units	66	66	66	66	66	66	66	66	66	44	66	66
PM	31 - 100 units	151	188	145	172	160	208	210	210	192	140	164	116
PM	101 - 200 units	200	151	197	143	200	200	205	201	200	108	200	83
PM	Over 200 units	61	302	76	273	184	850	531	243	391	104	206	
S	First 8 units	24		12		14		21		33		45 40	
S	9 - 30 units	17						24		55		48	
S S	31 - 100 units 101 - 200 units									89 22		30	
s S	Over 200 units									22			
Ŏ	First 8 units	30		28		32		32		31		30	
0	9 - 30 units	26		29		34		71		66		48	
0	31 - 100 units							23		26		18	
0	101 - 200 units												
0	Over 200 units												
V	First 8 units	1	3		2	2	9	4	26	8	17	2	5
V	9 - 30 units								6				
V	31 - 100 units												
V	101 - 200 units												
V	Over 200 units	60 747	44,144	E4 504	39,275	61 001	62.020	117.000	75 200	110,611	64.070	02 100	41 400
TOTAL		62,747	44,144	54,584	39,275	61,891	62,029	117,239	75,208	110,611	64,272	83,109	41,483
	Y BY CLASS												
R		44,810	32,571	39,097	28,847	44,094	43,668	83,865	54,610	80,228	47,727	60,246	30,874
MR C		10,788	7,344	8,995	6,485	9,971	9,581	16,431	10,257	15,772	8,764	13,228	6,345
C I		3,038	2,257	2,897	1,897	3,389	2,730	4,602	3,199	4,070 9 127	3,239	3,742	2,275
ı L		3,434 77	1,110 128	2,888 130	1,030 336	3,600 121	2,678 2,015	10,881 249	4,312 2,054	9,127 211	3,035 1,078	4,820 192	1,666 29
L PM		502	731	508	678	634	1,348	1,036	2,054 744	873	412	660	289
S		41	0	12	078	14	1,346	45	0	199	0	123	209
0		56	0	57	0	66	0	126	0	123	0	96	0
		1	3	0	2	2	9	4	32	8	17	2	5
V		62,747	44,144	54,584	39,275	61,891	62,029	117,239	75,208	110,611	64,272	83,109	41,483
		·-,											
TOTAL	Y RY TIFR	02,111											
TOTAL SUMMAR			22 604	24 286	21 858	24 871	23 826	26 246	24 308	26 128	23 916	25 616	22 159
TOTAL SUMMAR' First 8 uni	ts	24,920	22,604 14.915	24,286 18.402	21,858 12,231	24,871 22,322	23,826 22.658	26,246 41.729	24,308 27,363	26,128 39,960	23,916 24,479	25,616 31,153	
TOTAL SUMMAR' First 8 uni 9 - 30 uni	ts ts	24,920 21,598	14,915	18,402	12,231	22,322	22,658	41,729	27,363	39,960	24,479	31,153	13,503
TOTAL SUMMAR' First 8 uni 9 - 30 unii 31 - 100 u	ts ts units	24,920											22,158 13,503 3,937 1,199
V TOTAL SUMMAR' First 8 uni 9 - 30 uni 31 - 100 u 101 - 200 Over 200	ts ts units) units	24,920 21,598 6,418	14,915 4,686	18,402 4,994	12,231 3,539	22,322 5,716	22,658 9,077	41,729 25,513	27,363 14,528	39,960 23,762	24,479 10,741	31,153 13,182	13,503 3,937

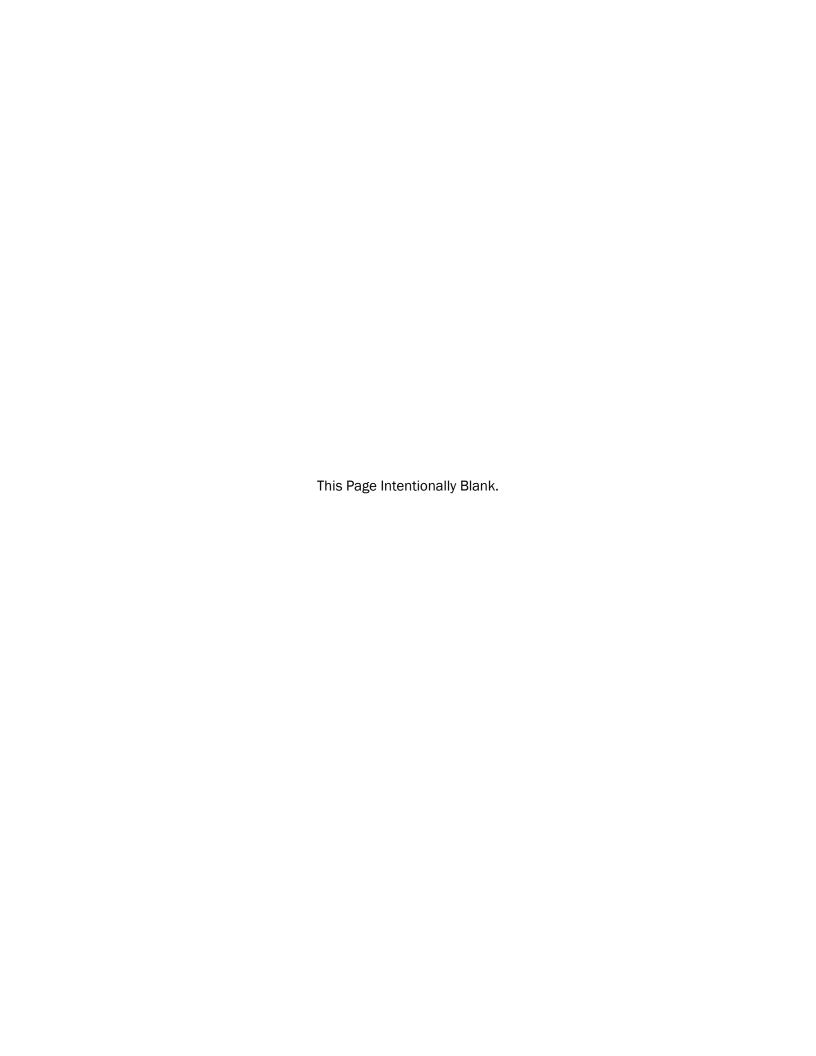
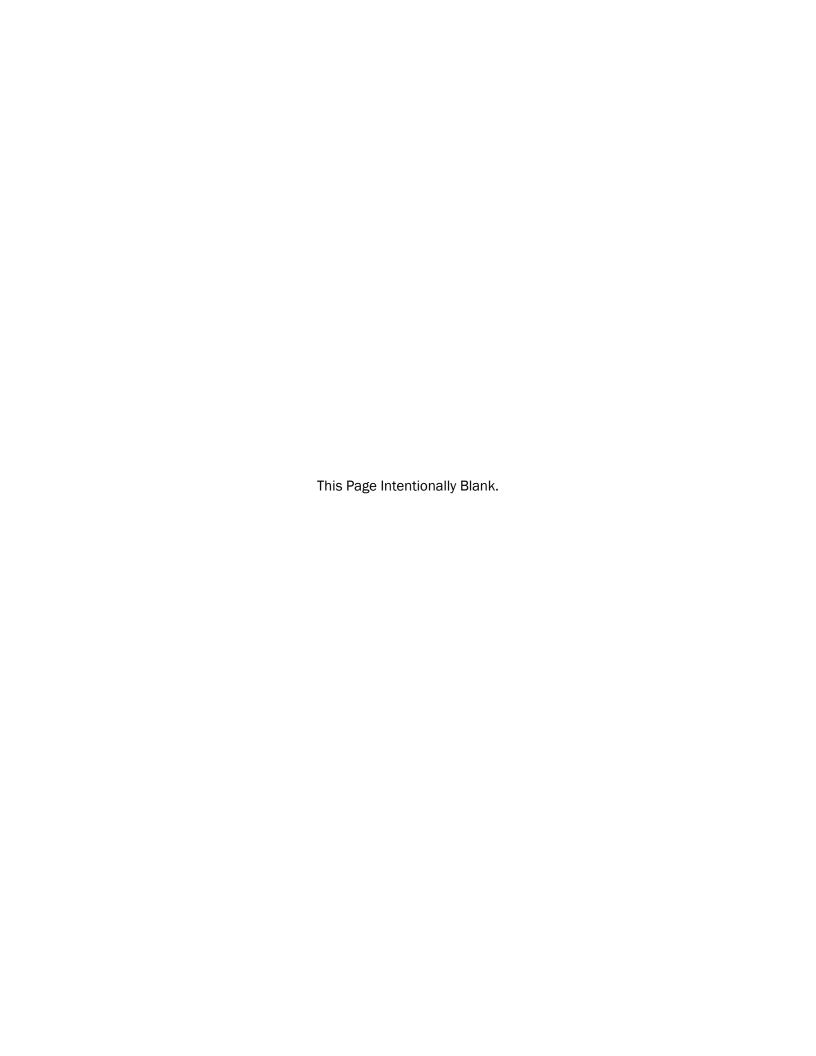


Table A-3 Water Meters by Customer Class and Size, 2013

						Custon	ner Class					
	Single	Multi		Inst/		Private		Fire				
Meter	Res	Res	Comm	Govt	Ldscp	Mutuals	Surplus	Service	Other	Vacant		Total
Size	R	MR	С	1	L	PM	S	FS	0	V	Total	Less "FS"
5/8	5,978	35	2	30	7			39	4	54	6,149	6,095
5/8A	2	400	12	1		2					417	417
5/8B		8	1			1					10	10
5/8C		1									1	1
3/4	209		163				32		1	2	407	405
3/4A		4									4	4
1		46	26	8	3				1	1	85	84
1A	86					1					87	87
1B		1									1	1
1F/K	113	2								1	116	115
1-1/2	1	5	8	8	1						23	23
1-1/2A		2									2	2
1-1/2C											0	0
1-1/2F	1			1							2	2
1-1/2G	1										1	1
1-1/2\$						1					1	1
2	1	6	9	8	1	2		2	3		32	32
2A		1									1	1
2G/L	1			1							2	2
3		1		2							3	3
4				1							1	1
Total	6,393	512	221	60	12	7	32	41	9	58	7,345	7,287
% of Total	87%	7%	3%	0.8%	0.2%	0.1%	0.4%	0.6%	0.1%	0.8%	100%	, -

Source: "Meters in Ground by User/Size" report dated February 6,2013.





Appendix B: Projected Water Use and Meters

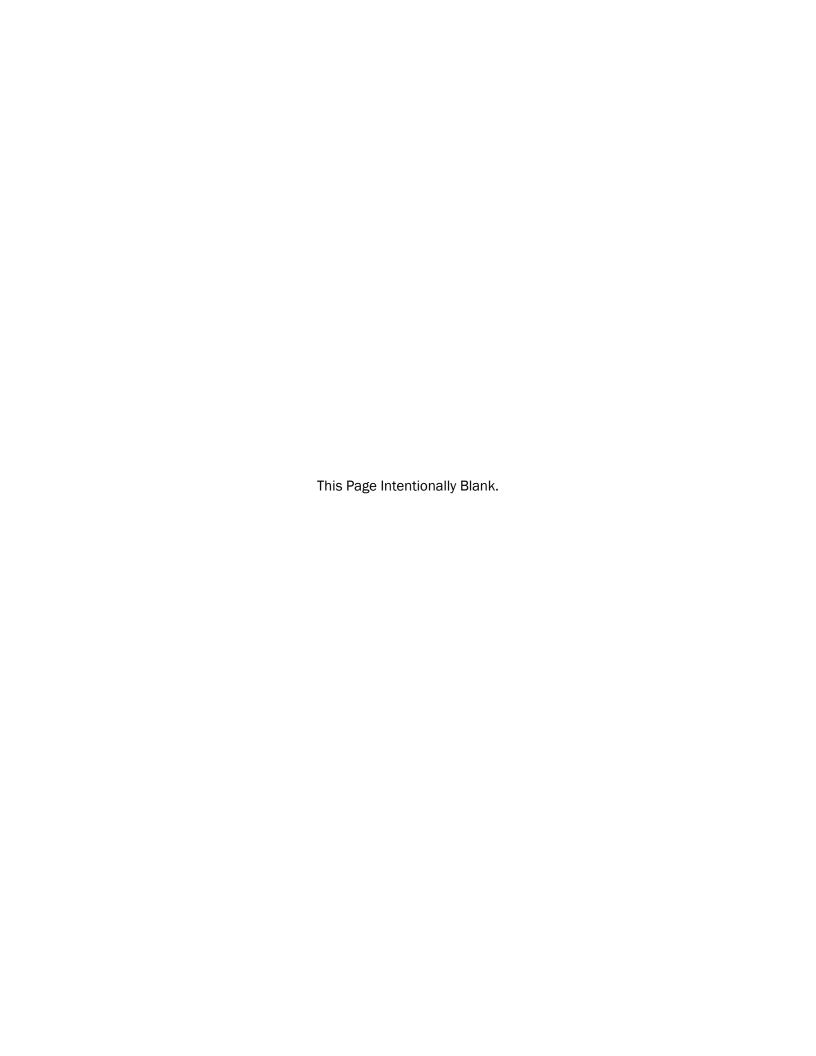


Table B-1 Projected Water Use by Tier, FY13 - FY18

Customer Class		2010	2011	2012	FY13	FY14	FY15	FY16	FY17	FY18
First 10 units		340,000	340,000	343,000	340,000	341,000	342,000	344,000	346,000	348,000
11 - 40 units		268,000	257,000	281,000	262,500	258,000	253,000	247,000	241,000	235,000
41 - 100 units		75,000	71,000	83,000	73,000	72,000	70,000	68,000	66,000	64,000
101 - 200 units		28,000	28,000	31,000	28,000	27,000	26,000	25,000	24,000	23,000
Over 200 units		64,000	67,000	78,000	65,500	64,000	63,000	62,000	61,000	60,000
Flat Rate										
Total		775,000	763,000	816,000	769,000	762,000	754,000	746,000	738,000	730,000
		target from	n projected us	e by class >	769,145	761,453	753,839	746,300	738,837	731,449
	one-tin	ne increase fron	n Olympia MW	'C in FY14 >	14 1	.00 cf/2mo	53 a	ccts	4,452 1	00 cf/yr

Annual % Reduction	FY14	FY15	FY16	FY17	FY18
First 10 units	-0.4%	-0.4%	-0.5%	-0.5%	-0.5%
11 - 40 units	1.9%	2.1%	2.2%	2.3%	2.3%
41 - 100 units	1.9%	2.1%	2.2%	2.3%	2.3%
101 - 200 units	1.9%	2.1%	2.2%	2.3%	2.3%
Over 200 units	1.9%	2.1%	2.2%	2.3%	2.3%
Total	0.9%	1.1%	1.1%	1.1%	1.1%

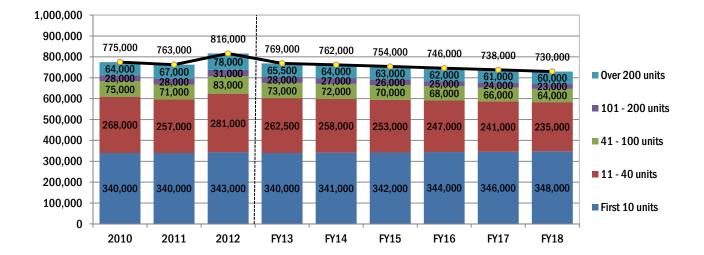


Table B-2 Projected Water Use by Tier, FY13 - FY18

Customer Class		FY13	FY14	FY15	FY16	FY17	FY18
First 8 units		310,931	314,000	315,000	316,000	317,000	318,000
9 - 30 units		274,700	269,000	264,000	259,000	254,000	249,000
31 - 100 units		85,914	84,000	82,000	80,000	78,000	76,000
101 - 200 units		9,021	9,000	9,000	9,000	9,000	9,000
Over 200 units		3,566	3,000	3,000	3,000	3,000	3,000
Flat Rate		85,101	83,000	81,000	79,000	77,000	75,000
Total		769,000	762,000	754,000	746,000	738,000	730,000
	target from projected use by class >	769,145	761,453	753,839	746,300	738,837	731,449
	one-time increase from Olympia MWC in FY14 >	14	100 cf/2mo	53	accts	4,452 1	.00 cf/yr

Annual % Reduction	FY14	FY15	FY16	FY17	FY18
First 8 units	-0.9%	-0.4%	-0.4%	-0.4%	-0.4%
9 - 30 units	1.9%	1.9%	1.9%	1.9%	2.0%
31 - 100 units	1.9%	1.9%	1.9%	1.9%	2.0%
101 - 200 units	1.9%	1.9%	1.9%	1.9%	2.0%
Over 200 units	1.9%	1.9%	1.9%	1.9%	2.0%
Flat Rate	1.9%	1.9%	1.9%	1.9%	2.0%
Total	0.9%	1.1%	1.1%	1.1%	1.1%

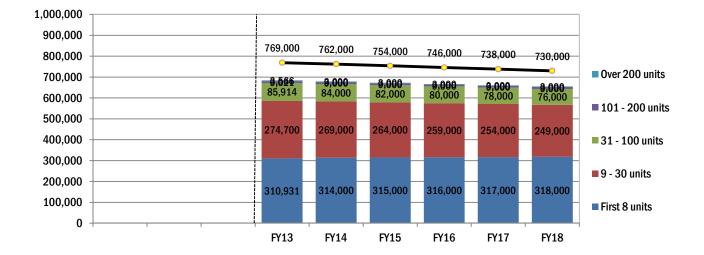
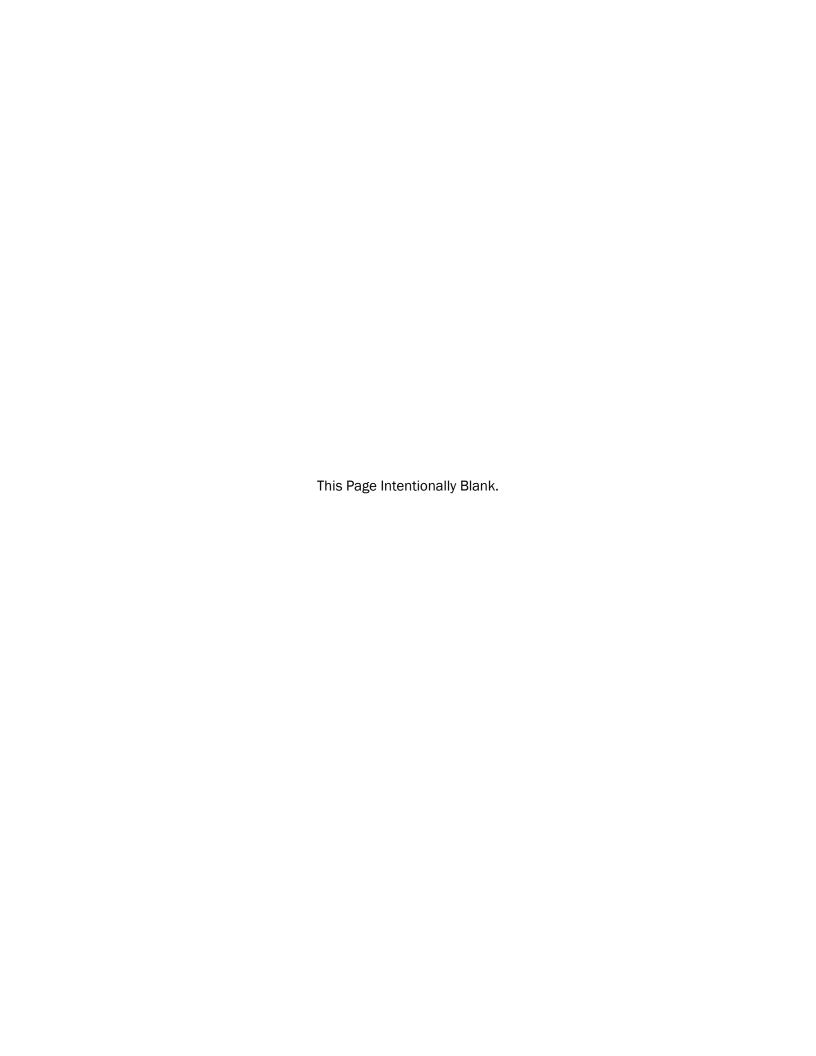


Table B-3 Projected Number of Meters by Size and Type

Meter Size	FY13	FY14	FY15	FY16	FY17	FY18
5/8 *	6,095	6,148	6,148	6,148	6,148	6,148
5/8A	417	417	417	417	417	417
5/8B	10	10	10	10	10	10
5/8C	1	1	1	1	1	1
3/4	405	405	405	405	405	405
3/4A	4	4	4	4	4	4
1	84	84	84	84	84	84
1A	87	87	87	87	87	87
1B	1	1	1	1	1	1
1F/K	115	115	115	115	115	115
1-1/2	23	23	23	23	23	23
1-1/2A	2	2	2	2	2	2
1-1/2C	0	0	0	0	0	0
1-1/2F	2	2	2	2	2	2
1-1/2G	1	1	1	1	1	1
1-1/2\$	1	1	1	1	1	1
2	32	32	32	32	32	32
2A	1	1	1	1	1	1
2G/L	2	2	2	2	2	2
3	3	3	3	3	3	3
4	1	1	1	1	1	1
Total	7,287	7,340	7,340	7,340	7,340	7,340

^{*}Annexation of the Olympia Mutual Water Company is expected to add 51 accounts in FY14 (another 2 accounts incidental to the annexation are included, for a total of 53 accounts). All accounts are assumed to be 5/8-inch meter connections.



Appendix C: Revenues by Customer Class and Tier for 2010, 2011 and 2012

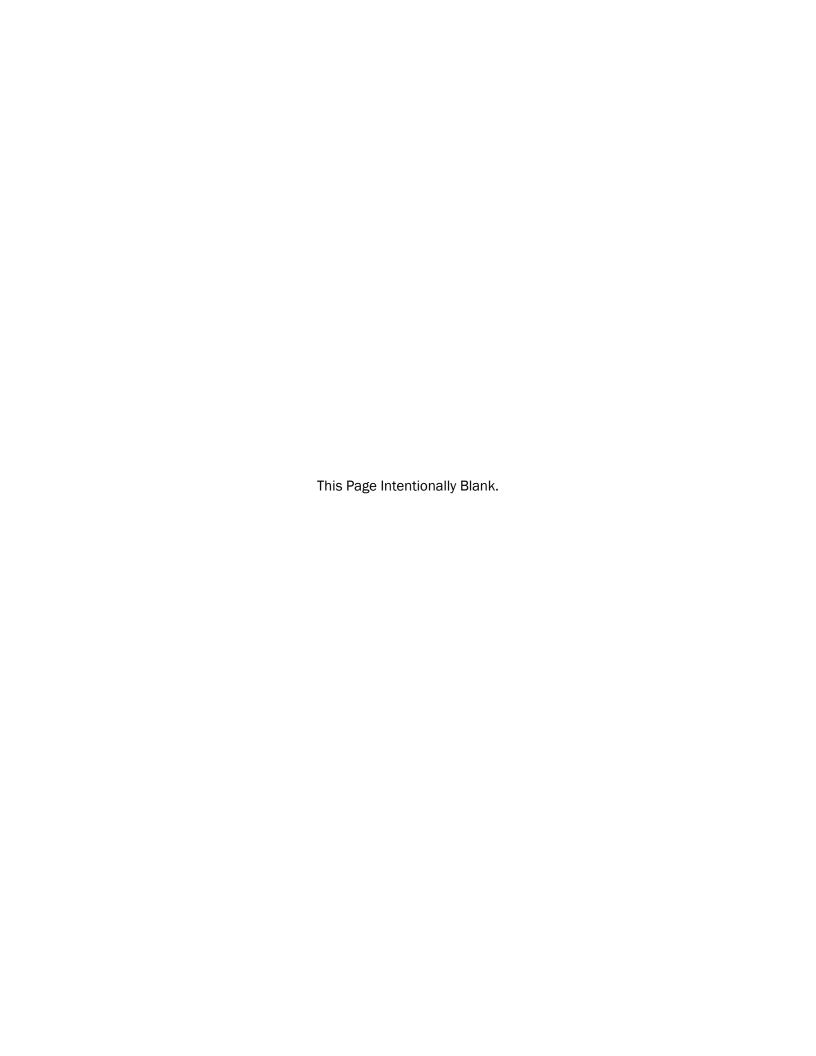


Table C-1 Revenues by Tiers and

Section Sect		ues by Tiers and lass, 2010-2012							20)10						
R	USE		Jan-	Jul-	Nov-		Jan-	Jul-			Ra	ite	Jan-	Jul-		
R 11-10 units	CODE															% Tot \$
R	R				•											
Restand 1.1 2.20 1.20 2.20					•									•		
No. Control	R				•	•										
MR 11-40 units	R									1%			•			1%
MR 41 1-100 units	MR	First 10 units		9,501	4,616	27,762	29%		26%					\$38,257	\$75,235	18%
MR 101-200 units	MR			•	•											28%
MR													•			
C HIFAT 10 units																
C 11.4 Ounits 3,622 4.877 1,966 12,455 36% 32% 23% 24% 24% 35.54 \$19,866 \$24,224 \$44,091 32% 24% 24\$ 15.557 24% 23% 54.24 \$15.557 24% 25% 24% 24\$ 15.557 24% 25% 25% 25% 25% 25% 25% 25% 25% 25% 25	C															19%
C 101-200 units	С						36%	32%		35%	\$3.54	\$3.54	\$19,866		\$44,091	33%
C Over 200 units	С				•								•			27%
First 10 units	C												•			14%
11 - 40 units	C															
1.100 units 2.509	l I												•			
101 - 200 units	I												•			15%
First 10 units	I				•								•			19%
L 11-40 units	I															52%
L 41 - 100 units	L															4%
L 101-200 units	L															
L Over 200 units 1	L															
PM First 10 units	Ĺ							72%								68%
PM 41 - 100 units	PM	First 10 units	180	120	40	340	4%	2%	14%	3%	\$2.71	\$2.71	\$488	\$434	\$921	2%
PM 101 - 200 units 1,328 998 198 2,524 26% 16% 68% 27% 45.59 \$4.59 \$6.996 \$5.490 \$11,585 22% \$6.90 \$10 \$11,585 22% \$6.90 \$10 \$11,585 \$2.20 \$5.90 \$5.00 \$5.00 \$5.00 \$10,880 \$18,915 \$2.97,795 \$5.60 \$5.00 \$10 \$1.00	PM	11 - 40 units						6%		8%				\$1,699	\$3,448	6%
PM Over 200 units	PM															14%
S First 10 units																
S 11 - 40 units	S															
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	S															30%
S Over 200 units	S	41 - 100 units	0	0	0	0	0%	0%	0%	0%	\$4.24	\$4.24	\$0	\$0	\$0	0%
0 First 10 units	S															0%
0 11-40 units	S															0%
0 41 - 100 units																
101 - 200 units	0															
First 10 units	0															2%
V 11 - 40 units	0			0		0		0%	0%	0%						0%
V 41-100 units	V															86%
101 - 200 units	V															
V Over 200 units O O O O O O O O O	V V															
TOTAL 297,491 358,119 119,907 775,517 \$966,371 \$1,671,635 \$2,638,007 \$SUMMARY BY CLASS R 217,387 263,112 89,590 570,089 73% 73% 75% 74% \$657,594 \$1,156,582 \$1,814,175 69% MR 47,386 45,939 17,690 111,015 16% 13% 15% 14% \$179,668 \$249,493 \$429,160 16% C 15,627 15,013 5,347 35,987 5% 4% 44% 5% \$56,085 \$75,966 \$132,051 5% 10,234 23,396 6,346 39,976 3% 7% 55% 5% \$42,635 \$136,609 \$179,244 7% L 1,399 4,093 468 5,960 0% 1% 0% 1% \$6,056 \$21,036 \$27,092 1% PM 5,084 6,183 290 11,557 2% 2% 0% 11% \$23,054 \$30,158 \$53,212 2% 0% 15 34 51 71 156 0% 0% 0% 0% 0% \$97 \$357 \$454 0% 0% 15 75 10 100 0% 0% 0% 0% \$97 \$357 \$454 0% 10TAL 297,491 358,119 119,907 775,517 100% 100% 100% 100% \$966,371 \$1,671,635 \$2,638,007 100% SUMMARY BY TIER First 10 units 163,150 121,197 55,792 340,139 55% 34% 47% 44% \$442,137 \$479,640 \$921,777 35% 11 - 40 units 88,460 137,826 42,183 268,469 30% 38% 35% 35% \$313,148 \$637,232 \$950,380 36% 141 - 100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 00ver 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12% 00ver 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%	v															0%
R	TOTAL															
MR	SUMM	IARY BY CLASS														
15,627 15,013 5,347 35,987 5% 4% 4% 5% \$56,085 \$75,966 \$132,051 5% 10,234 23,396 6,346 39,976 3% 7% 5% 5% \$42,635 \$136,609 \$179,244 7% 1,399 4,093 468 5,960 0% 1% 0% 1% \$6,056 \$21,036 \$27,092 1% PM 5,084 6,183 290 11,557 2% 2% 0% 1% \$23,054 \$30,158 \$53,212 2% S\$ 34 51 71 156 0% 0% 0% 0% 0% \$97 \$357 \$454 0% 0 325 257 95 677 0% 0% 0% 0% 0% \$1,143 \$1,195 \$2,338 0% 0% 15 75 10 100 0% 0% 0% 0% \$11,143 \$1,195 \$2,338 0% 0% 15 75 10 100 0% 0% 0% 0% \$41 \$239 \$280 0% 1000 \$	R		217,387	263,112	89,590	570,089	73%	73%	75%	74%			\$657,594	\$1,156,582	\$1,814,175	69%
10,234 23,396 6,346 39,976 3% 7% 5% 5% \$42,635 \$136,609 \$179,244 7% 1,399 4,093 468 5,960 0% 1% 0% 1% \$6,056 \$21,036 \$27,092 1% PM 5,084 6,183 290 11,557 2% 2% 0% 1% \$23,054 \$30,158 \$53,212 2% S 34 51 71 156 0% 0% 0% 0% 0% 97 \$357 \$454 0% 15 75 10 100 0% 0% 0% 0% 0% 11,143 \$1,195 \$2,338 0% 15 75 10 100 0% 0% 0% 0% 0% 100K 297,491 358,119 119,907 775,517 100% 100% 100% 100% 100% \$966,371 \$1,671,635 \$2,638,007 100% SUMMARY BY TIER First 10 units 163,150 121,197 55,792 340,139 55% 34% 47% 44% \$442,137 \$479,640 \$921,777 35% 11 - 40 units 88,460 137,826 42,183 268,469 30% 38% 35% 35% \$313,148 \$637,232 \$950,380 36% 41 - 100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 101 - 200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$44,1269 \$88,045 \$129,314 5% 0ver 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12% 1260 \$150 \$150 \$150 \$150 \$150 \$150 \$150 \$15	MR				17,690		16%	13%	15%	14%			\$179,668		\$429,160	16%
L 1,399 4,093 468 5,960 0% 1% 0% 1% \$6,056 \$21,036 \$27,092 1% PM 5,084 6,183 290 11,557 2% 2% 0% 1% \$23,054 \$30,158 \$53,212 2% S 34 51 71 156 0% 0% 0% 0% 0% \$97 \$357 \$454 0% O 325 257 95 677 0% 0% 0% 0% 0% \$1,143 \$1,195 \$2,338 0% O 15 75 10 100 0% 0% 0% 0% 0% \$1,143 \$1,195 \$2,338 0% O 1000 15 75 10 100 0% 0% 0% 0% 0% \$41 \$239 \$280 0% O 1000 1000 1000 1000 1000 1000 \$100	C				•											5%
PM 5,084 6,183 290 11,557 2% 2% 0% 1% \$23,054 \$30,158 \$53,212 2% S 34 51 71 156 0% 0% 0% 0% 0% S 97 \$357 \$454 0% O 10 325 257 95 677 0% 0% 0% 0% 0% S 1,143 \$1,195 \$2,338 0% O 15 75 10 100 0% 0% 0% 0% 0% S 1,143 \$1,195 \$2,338 0% O 10 15 75 10 100 0% 0% 0% 0% 0% S 1,143 \$1,195 \$2,338 0% O 10 10 10 10 10 10 10 10 10 10 10 10 10	I			•	•											7%
S 34 51 71 156 0% 0% 0% 0% 0% 157 \$357 \$454 0% 0% 0% 0% 0% 0% 0% 0% 1,143 \$1,195 \$2,338 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	L PM															
325 257 95 677 0% 0% 0% 0% 0% 1,143 \$1,195 \$2,338 0%	S															0%
V 15 75 10 100 0% 0% 0% 0% 0% 0% 966,371 \$1,671,635 \$2,638,007 100% SUMMARY BY TIER First 10 units 163,150 121,197 55,792 340,139 55% 34% 47% 44% \$442,137 \$479,640 \$921,777 35% 11 - 40 units 88,460 137,826 42,183 268,469 30% 38% 35% 35% \$313,148 \$637,232 \$950,380 36% 41 - 100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 101 - 200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$41,269 \$88,045 \$129,314 5% Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%	0															0%
SUMMARY BYTIER First 10 units	٧												\$41	\$239	\$280	0%
First 10 units 163,150 121,197 55,792 340,139 55% 34% 47% 44% \$442,137 \$479,640 \$921,777 35% 11-40 units 88,460 137,826 42,183 268,469 30% 38% 35% 35% \$313,148 \$637,232 \$950,380 36% 41-100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 101-200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$41,269 \$88,045 \$129,314 5% Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%	TOTAL		297,491	358,119	119,907	775,517	100%	100%	100%	100%			\$966,371	\$1,671,635	\$2,638,007	100%
11 - 40 units 88,460 137,826 42,183 268,469 30% 38% 35% 35% \$313,148 \$637,232 \$950,380 36% 41 - 100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 101 - 200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$41,269 \$88,045 \$129,314 5% Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%	SUMM	IARY BY TIER														
41 - 100 units 19,253 46,017 9,920 75,190 6% 13% 8% 10% \$81,633 \$237,173 \$318,806 12% 101 - 200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$41,269 \$88,045 \$129,314 5% Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%																35%
101 - 200 units 8,991 15,746 3,436 28,173 3% 4% 3% 4% \$41,269 \$88,045 \$129,314 5% Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%																
Over 200 units 17,637 37,333 8,576 63,546 6% 10% 7% 8% \$88,185 \$229,545 \$317,730 12%																
																12%
	TOTAL		-													100%

38% : % Jan-Jun 62% : % Jul-Dec

Table C-1 Revenues by Tiers and User Class, 2010-2012

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2	u	1	1	

R 11.4 Ounits		lass, 2010-2012	lan	lu/	Nov		lan	lu!)11	Da	to	lan	le!		
R First Damits 144,453 100,367 48,738 299,555 65% 43% 59% 54% \$2.71 \$2.71 \$391,488 \$42.03.26 \$811,799 47 8		TIFR				Total				Total					Total	% Tot \$
R 11.40 units																47%
R 41-100 units 1.9340 27.667 4.157 39.164 3% 11% 5% 7% 84.24 83.21,22 313.493 3166,055 107 8 R 00-200 units 1.934 4.374 6.944 6.052 1% 1% 1% 5% 7% 84.24 84.24 831.122 313.491 2 R 00-200 units 1.9362 4.1316 5.001 5.7560 27% 27% 24% 24% 24% 24% 24% 84.84 81.313.301 1 R 01-200 units 1.9362 4.1318 5.0079 34.099 31% 31% 31% 30% 31% 8.5.94 83.54 854.199 808,666 5122.834 R 01-200 units 2.471 2.573 897 5.577 55 6% 8 6% 58 84.59 83.54 854.199 808,666 5122.834 R 01-200 units 2.471 2.573 897 5.577 55 6% 8 6% 58 84.59 83.1094 21.000 R 01-200 units 2.471 2.573 897 5.577 55 6% 8 6% 58 84.59 83.1094 21.000 R 01-200 units 2.471 2.573 897 5.577 55 6% 8 6% 58 84.59 84.09 81.094 816.340 827.434 R 01-200 units 2.472 2.573 897 5.577 55 6% 8 6% 58 84.59 84.09 811.094 816.340 827.434 R 01-200 units 2.474 2.573 897 5.577 55 6% 8 6% 58 84.59 84.09 811.094 816.340 827.434 R 01-200 units 2.474 2.573 897 5.577 55 6% 8 6% 58 84.59 84.09 811.094 816.340 827.434 R 01-200 units 2.474 2.573 897 5.577 56 67 6 8 6% 58 84.59 84.09 811.094 816.340 827.434 R 01-200 units 2.474 2.573 897 5.577 56 67 6 8 6% 58 84.59 84.09 811.094 816.340 827.434 R 01-200 units 2.474 2.573 897 5.048 81.094 81.09										37%	\$3.54					41%
R	R		7,340	27,667	4,157	39,164	3%	11%	5%	7%	\$4.24	\$4.24	\$31,122	\$134,934	\$166,055	10%
MR First 10 units	R	101 - 200 units	1,934	4,374	644	6,952	1%	2%	1%	1%	\$4.59	\$4.59	\$8,877	\$23,033	\$31,910	2%
MR 11-00 units	R															1%
MR 41-100 units					-											17%
MR				-	-											28%
MR						•										13%
C First Tolimis																
C 11 -40 units 5,998 5,048 2,052 13,098 37% 33% 36% 35% 35.54 \$3.54 \$1.293 \$25,148 \$4.63.67 48 \$4.63.6													\$17,510 \$12,648			30 % 19%
C 41 - 100 units 1 3,349															-	34%
C 101-200 units 1.49					-	•										28%
First Jumits						•										14%
1 1-40 units	С	Over 200 units	149	1,103	27	1,279	1%			3%	\$5.00	\$5.00	\$745	\$5,650	\$6,395	5%
1 1-100 units 2.821 2.891 1.151 6.863 21% 12% 20% 16% \$4.24 \$4.24 \$41.961 \$17.138 \$29.099 10 0 0 0 0 0 0 0 0	I	First 10 units	1,224	857	418	2,499	9%	4%	7%	6%	\$2.71	\$2.71	\$3,317	\$3,455	\$6,772	3%
10 10 200 units	I	11 - 40 units		1,899		4,895	16%	8%		11%	\$3.54	\$3.54	\$7,696	\$9,632		9%
Deve-200 units	I				-	•										15%
L First 10 units	I				-	•										19%
L 11 -40 units	ļ															53%
L 41 - 100 units 459																4%
L 101-200 units 277 356 22 655 13% 10% 9% 9% 13% 5459 \$4.59 \$1.271 \$3.306 11% 1.0 Over 200 units 180 120 60 360 4% 2% 4% 0% 53% \$5.00 \$5.00 \$1.271 \$4.25\$ \$11.65\$ \$15.660 \$9\$ PM First 10 units 180 120 60 360 4% 2% 4% 3% \$2.71 \$2.71 \$488 \$488 \$976 29 PM 11-40 units 531 360 180 1,071 12% 6% 13% 9% \$3.54 \$3.54 \$1.800 \$1.912 \$3.791 7 PM 11-40 units 531 360 180 1,071 12% 6% 13% 9% \$3.54 \$3.54 \$1.800 \$1.912 \$3.791 7 PM 11-200 units 1,090 866 361 2,317 25% 14% 26% 19% \$4.59 \$4.59 \$5.003 \$5.602 \$10.635 19% PM 11-100 units 30 62 30 122 100% 78% 81% 84% \$2.71 \$2.71 \$81 \$2.70 \$3.55 \$3.220 \$9\$ \$8.51 \$1.400 units 30 62 30 122 100% 78% 81% 84% \$2.71 \$2.71 \$81 \$2.79 \$3.31 \$80 \$1.1400 units 30 62 30 122 100% 78% 81% 84% \$2.71 \$2.71 \$81 \$2.79 \$3.31 \$80 \$1.1400 units 30 62 30 122 100% 78% 81% 84% \$2.71 \$2.71 \$81 \$2.79 \$3.31 \$80 \$1.1400 units 40 0 0 0 0 0 0% 0% 0% 0% 84.59 \$4.59 \$4.50 \$8.50 \$5.00 \$8.5 \$85 \$2.00 \$85 \$1.1400 units 50 0 0 0 0 0 0 0% 0% 0% 0% 84.59 \$4.50 \$0.50 \$8.5 \$0.50 \$0 \$0.00 \$0																
L Over 200 units														-		
PM First 10 units 120 60 360 4% 2% 4% 3% \$2.71 \$2.71 \$4.88 \$4.88 \$4.98 \$9.76 27																59%
PM																2%
PM 41-100 units																7%
PM 101 - 200 units	PM									15%	\$4.24			-		14%
S	PM	101 - 200 units	1,090	866	361		25%	14%	26%	19%	\$4.59	\$4.59	\$5,003	\$5,632	\$10,635	19%
S 111-40 units 0 17		Over 200 units									\$5.00		\$8,675		\$32,260	58%
S 41 - 100 units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																80%
\$\text{S} \text{101-200 units} 0 \text{O} 0																20%
S																0%
O																0%
0 11 - 40 units													\$U \$220			0% 20%
0 41 - 100 units 0 6 0 0 6 0% 3% 0% 1% \$4.24 \$4.24 \$0 \$0 \$25 \$25 \$2 \$2 0 101 - 200 units 0 0 0 0 0% 0% 0% 0% 0% \$4.59 \$4.59 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0																
0 101 - 200 units																2%
O ver 200 units 0 0 0 0% 0% 0% 55.00 \$5.00 \$0 \$0 0 V First 10 units 9 34 6 49 100% 100% 100% \$2.71 \$2.71 \$2.4 \$108 \$133 100 V 11 - 40 units 0 0 0 0% 0% 0% 3.54 \$3.54 \$0 \$0 \$0 0 </td <td></td> <td>0%</td>																0%
V																0%
V	٧		9	34	6	49										100%
V 101 - 200 units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	٧						0%	0%	0%	0%	\$3.54	\$3.54				0%
V Over 200 units O O O O O O O O O	٧	41 - 100 units	0	0	0	0	0%	0%	0%	0%	\$4.24	\$4.24	\$0	\$0	\$0	0%
TOTAL 308,172 342,218 112,382 762,772 \$1,010,986 \$1,583,135 \$2,594,120 \$SUMMARY BY CLASS R 221,492 246,239 82,479 550,210 72% 72% 73% 72% \$672,665 \$1,065,054 \$1,737,720 67 MR 50,150 46,216 16,877 113,243 16% 14% 15% 15% \$192,181 \$247,865 \$440,047 17 C 16,081 15,429 5,625 37,135 5% 5% 5% 5% 5% 5% \$57,419 \$78,546 \$135,965 5	V	101 - 200 units	0	0	0	0	0%	0%	0%	0%	\$4.59	\$4.59	\$0	\$0	\$0	0%
SUMMARY BY CLASS R		Over 200 units					0%	0%	0%	0%	\$5.00					0%
R	TOTAL		308,172	342,218	112,382	762,772							\$1,010,986	\$1,583,135	\$2,594,120	
MR 50,150 46,216 10,877 113,243 16% 14% 15% 15% \$192,181 \$247,865 \$440,047 17C	SUMM	IARY BY CLASS														
C 16,081 15,429 5,625 37,135 5% 5% 5% 5% 5% \$57,419 \$78,546 \$135,965 56 I 137,747 24,238 5,639 43,624 4% 7% 5% 6% \$59,323 \$137,291 \$196,614 88 L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,272 \$17,354 \$26,626 19 PM 4,362 6,229 1,383 11,974 1% 2% 1% 2% \$19,548 \$35,636 \$55,184 29 S 30 79 37 146 0% 0% 0% 0% 0% \$81 \$334 \$416 00 O 154 198 95 447 0% 0% 0% 0% 0% \$81 \$334 \$416 00 V 9 9 34 6 49 0% 0% 0% 0% 0% \$472 \$945 \$1,417 00 V 9 34 6 49 0% 0% 0% 0% 0% \$1,010,986 \$1,583,135 \$2,594,120 1000 SUMMARY BY TIER First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 360 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 350 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 120 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 50 Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 130 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 1000 \$1,010,986 \$1,583,135	R		221,492	246,239	82,479	550,210	72%	72%	73%	72%			\$672,665	\$1,065,054	\$1,737,720	67%
I 13,747 24,238 5,639 43,624 4% 7% 5% 6% \$59,323 \$137,291 \$196,614 88 L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,272 \$17,354 \$26,626 19 PM 4,362 6,229 1,383 11,974 1% 2% 1% 2% \$19,548 \$35,636 \$55,184 29 S 30 79 37 146 0% 0% 0% 0% 0% \$81 \$334 \$416 00 O 154 198 95 447 0% 0% 0% 0% 0% \$81 \$334 \$416 00 V 9 3 4 6 49 0% 0% 0% 0% 0% \$24 \$108 \$133 00 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 1000 SUMMARY BY TIER																17%
L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,272 \$17,354 \$26,626 19 PM 4,362 6,229 1,383 11,974 1% 2% 1% 2% \$19,548 \$35,636 \$55,184 29 S 30 79 37 146 0% 0% 0% 0% 0% 0% \$81 \$334 \$416 00 0 154 198 95 447 0% 0% 0% 0% 0% 0% \$81 \$334 \$416 00 0 154 198 95 447 0% 0% 0% 0% 0% 0% \$472 \$945 \$1,417 00 00 100 154 198 193 112,382 762,772 100 100 100 100 100 100 100 100 100 10																5%
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\$\begin{array}{c ccccccccccccccccccccccccccccccccccc																1%
O 154 198 95 447 0% 0% 0% 0% 9% \$472 \$945 \$1,417 0 V 9 34 6 49 0% 0% 0% 0% \$24 \$108 \$133 0 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100 SUMMARY BY TIER First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 36' 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35' 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12' 101 - 200 units 10,186																2%
V 9 34 6 49 0% 0% 0% 0% \$24 \$108 \$133 0 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100% SUMMARY BY TIER First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 36 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5 Over 200 units 21,507																0% 0%
TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100% \$UMMARY BY TIER First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 36* 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35* 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12* 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5* Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13* TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100*																0% 0%
SUMMARY BY TIER First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 36' 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35' 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12' 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5' Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13' TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100'																100%
First 10 units 164,489 120,442 55,489 340,420 53% 35% 49% 45% \$445,765 \$476,773 \$922,538 36' 11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35' 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12' 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5' Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13' TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100'		IADV DVTIED	,	,_10	,502	,··-	/ 0	//	//				,	,,	,_ 0 .,0	
11 - 40 units 91,294 128,314 37,085 256,693 30% 37% 33% 34% \$323,181 \$585,512 \$908,693 35 41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12' 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5' Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13' TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100%			164 400	120 442	EE 400	240 400	E20/	3 E0/	400/	AEO/			¢445.705	¢476 770	¢000 E00	269/
41 - 100 units 20,696 41,351 8,714 70,761 7% 12% 8% 9% \$87,751 \$212,276 \$300,027 12' 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5' Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13' TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100%					-	•										36% 35%
101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5 Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100%					-	•										35% 12%
Over 200 units 21,507 37,726 7,305 66,538 7% 11% 7% 9% \$107,535 \$225,155 \$332,690 13 TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100%					-											5%
TOTAL 308,172 342,218 112,382 762,772 100% 100% 100% 100% \$1,010,986 \$1,583,135 \$2,594,120 100%																13%
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Table C-1 Revenues by Tiers and

	lass, 2010-2012							20)12						
USE	•	Jan-	Jul-	Nov-		Jan-	Jul-	Nov-		Ra		Jan-	Jul-		
CODE	TIER	Jun	0ct	Dec	Total	Jun	Oct	Dec		Jan-Jun		Jun	Dec	Total	% Tot \$
R R	First 10 units 11 - 40 units	146,314 74,797	106,656 116,068	49,291 33,624	302,261 224,489	63% 32%	40% 44%	54% 37%	51% 38%	\$2.71 \$3.54	\$2.71 \$3.54	\$396,511 \$264,781	\$422,616 \$529,910	\$819,127 \$794,691	43% 42%
R	41 - 100 units	8,536	35,040	6,357	49,933	4%	13%	7%	8%	\$4.24	\$4.24	\$36,193	\$175,523	\$211,716	11%
R	101 - 200 units	2,045	5,578	1,058	8,681	1%	2%	1%	1%	\$4.59	\$4.59	\$9,387	\$30,459	\$39,846	2%
R	Over 200 units	1,417	3,088	644	5,149	1%	1%	1%	1%	\$5.00	\$5.00	\$7,085	\$18,660	\$25,745	1%
MR MR	First 10 units 11 - 40 units	13,654	9,393	4,557 5,334	27,604	26%	18%	23% 27%	22% 29%	\$2.71 \$3.54	\$2.71 \$3.54	\$37,002 \$56,095	\$37,805 \$71,463	\$74,807 \$127,557	15%
MR	41 - 100 units	15,846 6,168	14,853 6,604	5,334 1,856	36,033 14,628	30% 12%	29% 13%	9%	12%	\$4.24	\$4.24	\$26,152	\$71,462 \$35,870	\$62,023	26% 13%
MR	101 - 200 units	2,906	2,954	698	6,558	5%	6%	4%	5%	\$4.59	\$4.59	\$13,339	\$16,763	\$30,101	6%
MR	Over 200 units	14,590	17,422	7,128	39,140	27%	34%	36%	32%	\$5.00	\$5.00	\$72,950	\$122,750	\$195,700	40%
C	First 10 units	4,654	3,350	1,610	9,614	29%	22%	27%	26%	\$2.71	\$2.71	\$12,612	\$13,442	\$26,054	19%
C C	11 - 40 units 41 - 100 units	5,738 4,098	5,068 3,668	2,055 1,312	12,861 9,078	35% 25%	34% 24%	34% 22%	34% 24%	\$3.54 \$4.24	\$3.54 \$4.24	\$20,313 \$17,376	\$25,215 \$21,115	\$45,528 \$38,491	33% 28%
C	101 - 200 units	1,624	2,387	707	4,718	10%	16%	12%	13%	\$4.59	\$4.59	\$7,454	\$14,201	\$21,656	16%
C	Over 200 units	98	637	339	1,074	1%	4%	6%	3%	\$5.00	\$5.00	\$490	\$4,880	\$5,370	4%
Ι	First 10 units	1,199	841	429	2,469	8%	3%	7%	5%	\$2.71	\$2.71	\$3,249	\$3,442	\$6,691	3%
!	11 - 40 units	2,262	1,863	895	5,020	15%	7%	14%	10%	\$3.54	\$3.54	\$8,007	\$9,763	\$17,771	8%
!	41 - 100 units 101 - 200 units	2,840 3,268	2,776 3,981	1,229 1,316	6,845 8,565	19% 22%	10% 15%	19% 20%	14% 18%	\$4.24 \$4.59	\$4.24 \$4.59	\$12,042 \$15,000	\$16,981 \$24,313	\$29,023 \$39,313	13% 18%
i	Over 200 units	5,171	17,894	2,617	25,682	35%	65%	40%	53%	\$5.00	\$5.00	\$25,855	\$102,555	\$128,410	58%
Ľ	First 10 units	200	127	_,o11 51	378	7%	4%	23%	6%		\$2.71	\$542	\$482	\$1,024	3%
L	11 - 40 units	410	311	94	815	15%	9%	43%	12%	\$3.54	\$3.54	\$1,451	\$1,434	\$2,885	10%
L	41 - 100 units	404	443	76	923	14%	12%	34%	14%	\$4.24	\$4.24	\$1,713	\$2,201	\$3,914	13%
L	101 - 200 units	322 1,471	320 2,391	0	642 3,862	11% 52%	9% 67%	0% 0%	10% 58%	\$4.59 \$5.00	\$4.59 \$5.00	\$1,478 \$7,355	\$1,469 \$11,955	\$2,947	10% 64%
L PM	Over 200 units First 10 units	1,471	2,391 110	60	3,002 350	52% 4%	4%	6%	4%	\$2.71	\$5.00 \$2.71	\$1,355 \$488	\$11,955 \$461	\$19,310 \$949	3%
PM	11 - 40 units	535	330	180	1,045	12%	11%	19%	12%	\$3.54	\$3.54	\$1,894	\$1,805	\$3,699	10%
PM	41 - 100 units	849	642	220	1,711	19%	21%	23%	20%	\$4.24	\$4.24	\$3,600	\$3,655	\$7,255	19%
PM	101 - 200 units	1,091	714	283	2,088	25%	23%	30%	25%	\$4.59	\$4.59	\$5,008	\$4,576	\$9,584	25%
PM S	Over 200 units First 10 units	1,746 52	1,269 64	206 51	3,221 167	40% 78%	41% 26%	22% 41%	38% 38%	\$5.00 \$2.71	\$5.00 \$2.71	\$8,730 \$141	\$7,375	\$16,105	43% 31%
S	11 - 40 units	15	89	62	166	22%	36%	50%	38%	\$3.54	\$3.54	\$141 \$53	\$312 \$535	\$453 \$588	40%
S	41 - 100 units	0	69	10	79	0%	28%	8%	18%	\$4.24	\$4.24	\$0	\$335	\$335	23%
S	101 - 200 units	0	22	0	22	0%	9%	0%	5%	\$4.59	\$4.59	\$0	\$101	\$101	7%
S	Over 200 units	0	0	0	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
0	First 10 units	109 70	77 161	36 52	222 283	61% 39%	31%	38%	42% 54%	\$2.71 \$3.54	\$2.71 \$3.54	\$295 \$248	\$306 \$754	\$602 \$1,002	36% 59%
0	11 - 40 units 41 - 100 units	0	11	8	19	0%	65% 4%	54% 8%	4%	\$4.24	\$4.24	\$246 \$0	\$754 \$81	\$1,002	5%
0	101 - 200 units	0	0	0	0	0%	0%	0%	0%	\$4.59	\$4.59	\$0	\$0	\$0	0%
0	Over 200 units	0	0	0	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
٧	First 10 units	17	57	7	81	100%	93%	100%	95%	\$2.71	\$2.71	\$46	\$173	\$220	94%
V V	11 - 40 units 41 - 100 units	0	4 0	0	4 0	0% 0%	7% 0%	0% 0%	5% 0%	\$3.54 \$4.24	\$3.54 \$4.24	\$0 \$0	\$14 \$0	\$14 \$0	6% 0%
V	101 - 200 units	0	0	0	0	0%	0%	0%	0%	\$4.59	\$4.59	\$0 \$0	\$0 \$0	\$0 \$0	0%
٧	Over 200 units	0	0	0	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
TOTAL		324,696	367,332	124,452	816,480							\$1,074,934	\$1,735,749	\$2,810,684	
SUMN	IARY BY CLASS														
R		233,109	266,430	90,974	590,513	72%	73%	73%	72%				\$1,177,169		67%
MR		53,164	51,226	19,573	123,963	16%	14%	16%	15%			\$205,538	\$284,650	\$490,188	17%
C		16,212 14,740	15,110 27,355	6,023 6,486	37,345 48,581	5% 5%	4% 7%	5% 5%	5% 6%			\$58,245 \$64,153	\$78,854 \$157,054	\$137,098 \$221,208	5% 8%
Ĺ		2,807	3,592	221	6,620	1%	1%	0%	1%			\$12,539	\$137,034	\$30,080	1%
PM		4,401	3,065	949	8,415	1%	1%	1%	1%			\$19,719	\$17,872	\$37,591	1%
S		67	244	123	434	0%	0%	0%	0%			\$194	\$1,282	\$1,476	0%
0		179	249	96	524	0%	0%	0%	0%			\$543	\$1,141	\$1,684	0%
V TOTAL		17 324,696	61 367,332	7 124,452	85 816,480	0% 100%	0% 100%	0% 100%	0% 100%			\$46 \$1,074,934	\$188 \$1,735,749	\$234 \$2,810,684	0% 100%
	IADV DV TIED	324,030	301,332	124,402	010,400	100 /0	100 /0	100 /0	100 //			ψ1,014,334	ψ1,133,149 ·	Ψ2,010,004	100 /6
	IARY BY TIER 0 units	166,379	120,675	56,092	343,146	51%	33%	45%	42%			\$450,887	\$479,039	\$929,926	33%
	0 units	99,673	138,747	42,296	280,716	31%	38%	34%	34%			\$352,842	\$640,892	\$993,735	35%
	00 units	22,895	49,253	11,068	83,216	7%	13%	9%	10%			\$97,075	\$255,761	\$352,836	13%
	200 units	11,256	15,956	4,062	31,274	3%	4%	3%	4%			\$51,665	\$91,883	\$143,548	5%
	00 units	24,493	42,701	10,934	78,128	8%	12%	9%	10%			\$122,465	\$268,175	\$390,640	14%
TOTAL		324,696	367,332	124,452	816,480	100%	100%	100%	100%			\$1,074,934	\$1,735,749	\$2,810,684	100%

40% : % Jan-Jun 60% : % Jul-Dec

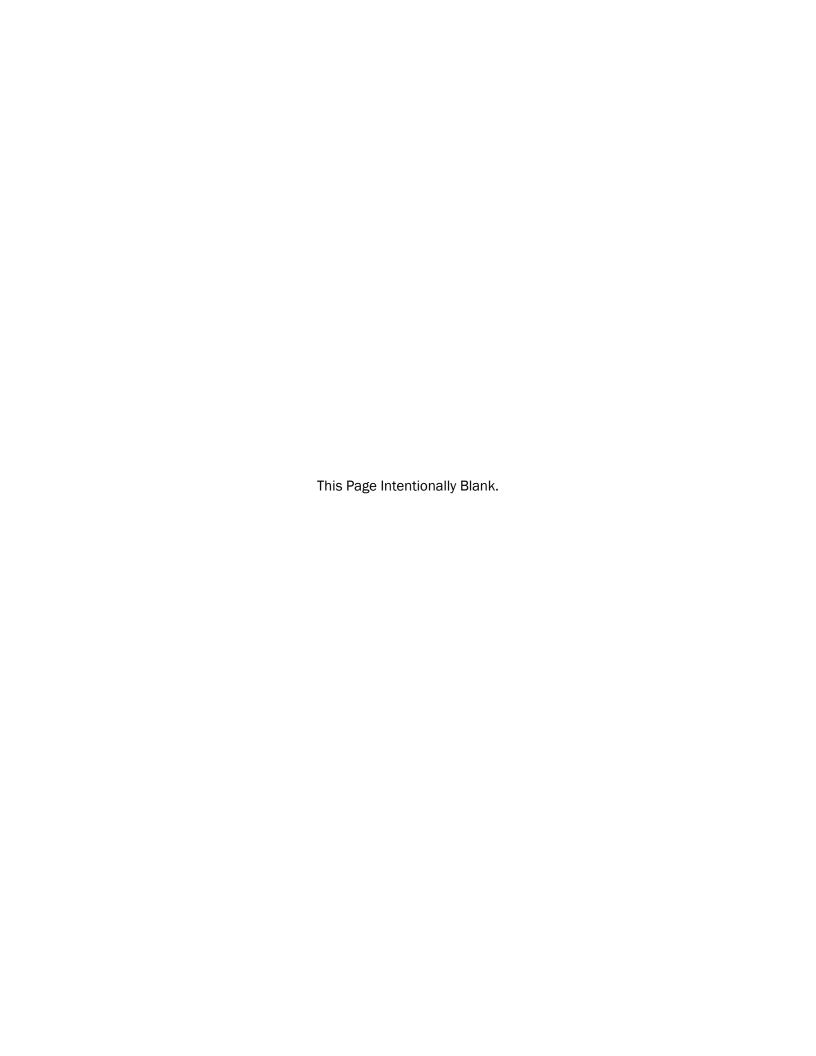


Table C-2 Revenues by Tiers and

	lass, 2010-2012	2012													
USE	·	Jan-	Jul-	Nov-		Jan-	Jul-	Nov-				Jan-	Jul-		
CODE R	TIER	Jun 123,346	0ct 89,030	Dec 41,760	Total 254,136	Jun 57%	0ct 34%	Dec 47%	Total 45%	Jan-Jun \$2.71	Jul-Dec \$2.71	Jun \$334,268	Dec \$354,441	Total \$688,709	% Tot \$
R	First 8 units 9 - 30 units	79,878	113,539	36,441	229,858	37%	43%	41%	40%	\$3.54	\$3.54	\$282,768	\$530,929	\$813,697	43%
R	31 - 100 units	12,247	52,603	10,052	74,902	6%	20%	11%	13%	\$4.24	\$4.24	\$51,927	\$265,657	\$317,584	17%
R	101 - 200 units	1,313	5,860	643	7,816	1%	2%	1%	1%	\$4.59	\$4.59	\$6,027	\$29,849	\$35,875	2%
R	Over 200 units	489	2,026	656	3,171	0%	1%	1%	1%	\$5.00	\$5.00	\$2,445	\$13,410	\$15,855	1%
MR	First 8 units	11,280	7,740	3,799	22,819	24%	17%	21%	21%	\$2.71	\$2.71	\$30,569	\$31,271	\$61,839	14%
MR MR	9 - 30 units 31 - 100 units	14,551 7,392	13,523 8,947	5,257 2,432	33,331 18,771	31% 16%	29% 19%	30% 14%	30% 17%	\$3.54 \$4.24	\$3.54 \$4.24	\$51,511 \$31,342	\$66,481 \$48,247	\$117,992 \$79,589	27% 18%
MR	101 - 200 units	2,314	2,448	907	5,669	5%	5%	5%	5%	\$4.59	\$4.59	\$10,621	\$15,399	\$26,021	6%
MR	Over 200 units	11,849	13,281	5,295	30,425	25%	29%	30%	27%	\$5.00	\$5.00	\$59,245	\$92,880	\$152,125	35%
С	First 8 units	3,874	2,741	1,309	7,924	25%	18%	24%	22%	\$2.71	\$2.71	\$10,499	\$10,976	\$21,474	16%
С	9 - 30 units	5,093	4,313	1,786	11,192	33%	29%	33%	31%	\$3.54	\$3.54	\$18,029	\$21,590	\$39,620	29%
C	31 - 100 units	4,845	4,628	1,695	11,168	31%	31%	32%	31%	\$4.24	\$4.24	\$20,543	\$26,810	\$47,352	35%
C C	101 - 200 units Over 200 units	1,513 302	2,187 1,132	418 139	4,118 1,573	10% 2%	15% 8%	8% 3%	11% 4%	\$4.59 \$5.00	\$4.59 \$5.00	\$6,945 \$1,510	\$11,957 \$6,355	\$18,902 \$7,865	14% 6%
ī	First 8 units	1,187	1,132 863	435	2,485	12%	4%	7%	4 % 6%		\$2.71	\$3,217	\$3,518	\$6,734	4%
i	9 - 30 units	2,000	1,894	883	4,777	20%	8%	14%	12%	\$3.54	\$3.54	\$7,080	\$9,831	\$16,911	9%
1	31 - 100 units	2,509	2,748	1,165	6,422	25%	12%	18%	16%	\$4.24	\$4.24	\$10,638	\$16,591	\$27,229	15%
1	101 - 200 units	2,415	3,956	1,166	7,537	24%	17%	18%	19%	\$4.59	\$4.59	\$11,085	\$23,510	\$34,595	19%
<u> </u>	Over 200 units	2,123	13,935	2,697	18,755	21%	60%	42%	47%	\$5.00	\$5.00	\$10,615	\$83,160	\$93,775	52%
L	First 8 units	156	124	64 116	344 507	11%	3% 7%	14%	6% 10%		\$2.71	\$423	\$509	\$932	3%
L L	9 - 30 units 31 - 100 units	206 239	275 448	116 168	597 855	15% 17%	7% 11%	25% 36%	10% 14%	\$3.54 \$4.24	\$3.54 \$4.24	\$729 \$1,013	\$1,384 \$2,612	\$2,113 \$3,625	8% 13%
Ĺ	101 - 200 units	100	297	104	501	7%	7%	22%	8%	\$4.59	\$4.59	\$459	\$1,841	\$2,300	8%
L	Over 200 units	698	2,949	16	3,663	50%	72%	3%	61%	\$5.00	\$5.00	\$3,490	\$14,825	\$18,315	67%
PM	First 8 units	144	96	32	272	3%	2%	11%	2%	\$2.71	\$2.71	\$390	\$347	\$737	1%
PM	9 - 30 units	370	264	88	722	7%	4%	30%	6%	\$3.54	\$3.54	\$1,310	\$1,246	\$2,556	5%
PM	31 - 100 units	1,066	815	199	2,080	21%	13%	69%	18%	\$4.24	\$4.24	\$4,520	\$4,299	\$8,819	16%
PM PM	101 - 200 units Over 200 units	1,328 2,176	998 4,010	198 -227	2,524 5,959	26% 43%	16% 65%	68% -78%	22% 52%	\$4.59 \$5.00	\$4.59 \$5.00	\$6,096 \$10,880	\$5,490 \$18,915	\$11,585 \$29,795	22% 56%
S	First 8 units	2,170	4,010	-221	104	71%	82%	-70 <i>%</i> 54%	67%	\$2.71	\$2.71	\$10,880 \$65	\$16,915 \$217	\$282	60%
S	9 - 30 units	10	9	33	52	29%	18%	46%	33%	\$3.54	\$3.54	\$35	\$149	\$184	40%
S	31 - 100 units	0	0	0	0	0%	0%	0%	0%	\$4.24	\$4.24	\$0	\$0	\$0	0%
S	101 - 200 units	0	0	0	0	0%	0%	0%	0%	\$4.59	\$4.59	\$0	\$0	\$0	0%
S	Over 200 units	0	0 60	0 32	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
0	First 8 units 9 - 30 units	80 126			172	25%	23%	34%	25%	\$2.71	\$2.71	\$217	\$249	\$466	19%
0 0	31 - 100 units	126 111	119 78	51 12	296 201	39% 34%	46% 30%	54% 13%	44% 30%	\$3.54 \$4.24	\$3.54 \$4.24	\$446 \$471	\$602 \$382	\$1,048 \$852	44% 35%
0	101 - 200 units	8	0	0	8	2%	0%	0%	1%	\$4.59	\$4.59	\$37	\$0	\$37	2%
0	Over 200 units	0	0	0	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
٧	First 8 units	15	57	10	82	100%	76%	100%	82%	\$2.71	\$2.71	\$41	\$182	\$222	78%
V	9 - 30 units	0	18	0	18	0%	24%	0%	18%	\$3.54	\$3.54	\$0	\$64	\$64	22%
V	31 - 100 units	0	0	0	0	0%	0%	0%	0%	\$4.24	\$4.24	\$0	\$0	\$0	0%
V V	101 - 200 units Over 200 units	0	0	0	0	0% 0%	0% 0%	0% 0%	0% 0%	\$4.59 \$5.00	\$4.59 \$5.00	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%
TOTAL	Over 200 units	297,377	358,053	119,869	775,299	U /0	U /0	0 /0	0 /0	φ5.00	φ3.00		\$1,716,173		0 /6
	IADV DV CI ACC	201,011	000,000	110,000	,200							4001,000	41,110,110	42,101,010	
R	IARY BY CLASS	217,273	263,058	89,552	569,883	73%	73%	75%	74%			\$677.435	\$1,194,286	\$1.871.721	69%
MR		47,386	45,939	17,690	111,015	16%	13%	15%	14%			\$183,288	\$254,278	\$437,566	16%
C		15,627	15,001	5,347	35,975	5%	4%	4%	5%			\$57,525	\$77,687	\$135,213	5%
1		10,234	23,396	6,346	39,976	3%	7%	5%	5%			\$42,635	\$136,609	\$179,244	7%
L		1,399	4,093	468	5,960	0%	1%	0%	1%			\$6,114	\$21,171	\$27,285	1%
PM		5,084	6,183	290	11,557	2%	2%	0%	1%			\$23,195	\$30,297	\$53,492	2%
S O		34 325	51 257	71 95	156 677	0% 0%	0% 0%	0% 0%	0% 0%			\$100 \$1,170	\$365 \$1,233	\$466 \$2,403	0% 0%
V		325 15	25 <i>1</i> 75	10	100	0% 0%	0% 0%	0% 0%	0%			\$1,170	\$1,233 \$245	\$2,403 \$286	0%
TOTAL		297,377	358,053	119,869	775,299	100%	100%	100%	100%				\$1,716,173		100%
	IARY BY TIER	,	,	,	, ,							, , , , , , ,	, , ,	, , , ,	
First 8		140,106	100,753	47,479	288,338	47%	28%	40%	37%			\$379,687	\$401,709	\$781,396	29%
9 - 30		102,234	133,954	44,655	280,843	34%	37%	37%	36%			\$361,908	\$632,276	\$994,184	37%
	00 units	28,409	70,267	15,723	114,399	10%	20%	13%	15%			\$120,454	\$364,598	\$485,052	18%
	200 units	8,991	15,746	3,436	28,173	3%	4%	3%	4%			\$41,269	\$88,045	\$129,314	5%
	00 units	17,637	37,333	8,576	63,546	6%	10%	7%	8%			\$88,185	\$229,545	\$317,730	12%
TOTAL		297,377	358,053	119,869	775,299	100%	100%	100%	100%			\$991,503	\$1,716,173	\$2,707,676	100%

297,377 358,053 119,869 775,299 38% : % Jan-Jun 62% : % Jul-Dec

Table C-2 Revenues by Tiers and User Class, 2010-2012

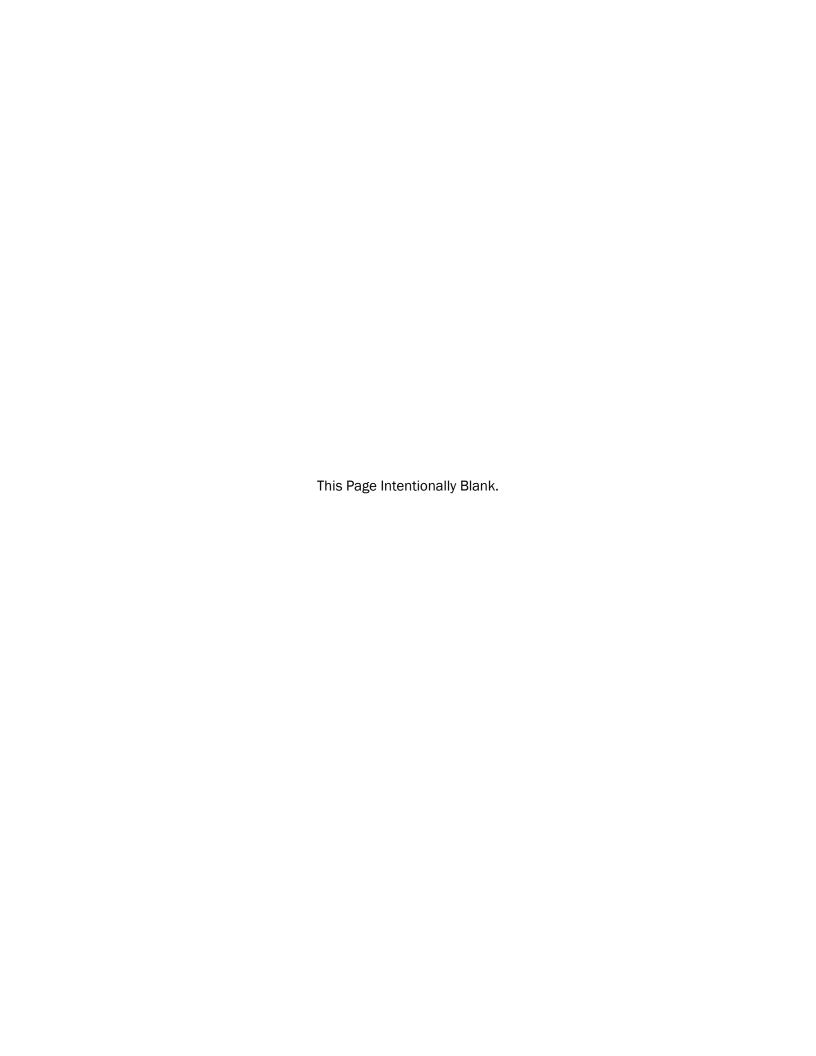
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2	u	1	1	

R First Sumits 124,219 88,815 A1,269 254,880 56% 87% 35% 51% 46% \$2.71 \$2.71 \$33,66.73 \$890,677 \$890,677 \$878,188 42 \$1.100 units 13,004 45,214 7.021 65,739 6% 18% 59% 12% \$4.24 \$4.24 \$55,137 \$223,566 \$278,733 1490 \$2.00 \$1.00 units 1,934 4,374 644 6,6952 1% 21% 15% 15% 15% 50% 50% 54,460 \$8,877 \$423,331,410 \$2.00 \$1.00 units 1,934 4,374 644 6,6952 1% 21% 15% 15% 50% 50% 54,460 \$8,840 \$13,330 \$1.00 units 1,934 4,374 644 6,6952 1% 25,660 \$1.00 \$1.00 units 1,934 4,374 644 6,6952 1% 25,660 \$1.00 units 1,934 4,374 644 6,6952 1% 25,660 \$1.00 units 1,00 units 1		lass, 2010-2012	lan	[m]	Nov		lon	Int)11	n-	to	lon	Int		
R		TIFR				Total				Total					Total	% Tot \$
R 9 - 30 units																39%
R 101-200 units 1,944 4,374 644 6,952 1% 2% 1% 1% 5459 8459 88,877 \$22,033 \$31,910 2			,		,					40%	\$3.54			\$490,375		43%
No Process 1,000	R	31 - 100 units	13,004	45,214	7,521	65,739	6%	18%	9%	12%	\$4.24	\$4.24	\$55,137	\$223,596	\$278,733	16%
MR First Sumis	R	101 - 200 units	1,934	4,374	644	6,952	1%	2%	1%	1%	\$4.59	\$4.59	\$8,877	\$23,033	\$31,910	2%
MR S1 - 100 units 1,5124 13,229 4,980 33,333 30% 29% 30% 29% 33.54 33.54 33.54 33.64 53.64 53.67 54.64 54.	R	Over 200 units														1%
MR 31 - 100 units																14%
MR			-	-	-								•			26%
MR Over 200 units																18%
CF First Sumits 5,346 2,893 1,339 8,088 25% 18% 24% 22% 27,1 \$2,71 \$10,694 \$11,225 \$2,1318 1.00 wits 5,326 4,380 1,325 \$11,545 33.0 28% 32% 33% 33% \$3.24 \$4.24 \$1.226 \$1.256 \$4.0680 2.00 \$1.01.200 wints 1,38 2,196 601 4,115 8,40 \$1.00																6%
C 9 -30 units 5,340																36% 16%
C 31 - 100 units 5,328 4,945 1,833 12,106 33% 32% 33% 33% 8,24 8,424 8,227,891 828,738 81,329 31 31 30 30			-													29%
C					-	•										37%
C Ower 200 units						•										14%
First Sumits						•										5%
1	ī															3%
1 101 100 100 101 101 100 100 101 101 100	i															9%
None 100 units 4.378 4.577 2.074 21.023 32% 60% 37% 48% 85.00 \$5.00 \$21.890 \$83.25 \$105.115 52 \$1.05	I					•										15%
First Rumits	I	101 - 200 units	3,150	4,020	1,174	8,344	23%	17%	21%	19%	\$4.59	\$4.59	\$14,459	\$23,840	\$38,299	19%
L 9 - 30 units	I	Over 200 units	4,378	14,571	2,074	21,023	32%	60%	37%	48%	\$5.00	\$5.00	\$21,890	\$83,225	\$105,115	53%
L 31 - 100 units	L	First 8 units	169	114	49	332	8%	3%	20%	6%	\$2.71	\$2.71	\$458	\$442	\$900	3%
L 101 - 200 units	L	9 - 30 units	307	260	95	662	14%	7%	39%	11%	\$3.54	\$3.54	\$1,087	\$1,257	\$2,343	9%
New Part	L				75	1,159	26%	15%	31%	19%	\$4.24	\$4.24	•		-	18%
PM	L														\$3,006	11%
PM 9-30 units 396 264 132 792 8% 4% 10% 6% 83.54 83.54 81.402 \$1.402 \$1.402 \$2.804 5.908 18.908 19.9																58%
PM																1%
PM													•		-	5%
PM Over 200 units 3,282 4,212 505 6,999 46% 68% 37% 56% 5.00 \$5.00 \$11,410 \$23,585 \$34,995 66 \$5.00 \$15.00 \$11.00 \$1																15%
S																18%
S 9 -30 units 0 23 9 32 0% 29% 24% 22% \$3.54 \$3.54 \$0 \$113 \$113 \$12 27 \$1 -100 units 0 0 0 0 0 0% 0% 0% 44.24 \$4.24 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0																73%
\$\frac{\capsilon}{\capsilon}\$ 101 - 100 units 0 \qq 0 0 0 0 0 \qua																27%
\$\begin{tabular}{c c c c c c c c c c c c c c c c c c c																0%
S Over 200 units O O O O O O O O O																0%
O First 8 units 76 62 32 170 49% 31% 34% 38% \$2.71 \$2.71 \$2.06 \$2.55 \$461 32 0 9 - 30 units 77 111 63 251 50% 56% 66% 56% \$3.54 \$3.54 \$273 \$616 \$889 61 0 31 - 100 units 1 25 0 26 1% 13% 0% 6% \$4.24 \$4.24 \$4 \$106 \$110 8 0 101 - 200 units 0 0 0 0 0% 0% 0% \$4.59 \$4.59 \$0 <			0	0	0											0%
O 31 - 100 units	0		76	62	32	170	49%	31%	34%	38%	\$2.71	\$2.71	\$206	\$255	\$461	32%
0 101 - 200 units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	9 - 30 units	77	111	63	251	50%	56%	66%	56%	\$3.54	\$3.54	\$273	\$616	\$889	61%
O over 200 units 0 0 0 0% 0% 0% 0% 55.00 \$5.00 \$0 \$0 \$0 CO V First 8 units 9 33 6 48 100% 100% 100% \$2.71 \$2.71 \$24 \$106 \$130 100 V 9 - 30 units 0 0 0 0 0% 0% 0% \$3.54 \$3.54 \$3.54 \$0 \$0 \$0 0<	0	31 - 100 units	1	25	0	26	1%	13%	0%	6%	\$4.24	\$4.24	\$4	\$106	\$110	8%
First 8 units	0	101 - 200 units	0		0			0%	0%	0%	\$4.59			\$0		0%
V 9-30 units 0 0 0 0 0 0 0% 0% 0% 0% \$3.54 \$3.54 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	-					-										0%
V 31-100 units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-															100%
V 101 - 200 units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-															0%
V Over 200 units 0 0 0 0 0% 0% 0% \$5.00 \$5.00 \$0	-		•	-	•	-										0%
TOTAL 308,585 342,183 112,382 763,150 \$1,039,623 \$1,624,857 \$2,664,480 \$SUMMARY BY CLASS R 221,358 246,207 82,479 550,044 72% 72% 73% 72% \$692,950 \$1,099,881 \$1,792,831 67 MR 50,150 46,216 16,877 113,243 16% 14% 15% 15% \$195,978 \$252,577 \$448,555 17 C 16,081 15,427 5,625 37,133 5% 5% 5% 5% 5% \$58,983 \$80,417 \$139,400 50 100 113,747 24,238 5,639 43,624 4% 7% 55% 6% \$59,323 \$137,291 \$196,614 77 L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,369 \$17,475 \$26,844 14 PM 4,909 6,229 1,383 12,521 2% 2% 11% 2% \$22,432 \$35,792 \$58,224 20 \$30 79 37 146 0% 0% 0% 0% 0% \$81 \$341 \$422 \$00 \$154 198 95 447 0% 0% 0% 0% 0% \$483 \$977 \$1,459 \$00 \$100 \$154 198 95 447 0% 0% 0% 0% 0% \$483 \$977 \$1,459 \$00 \$100 \$154 198 95 447 0% 0% 0% 0% 0% \$1,039,623 \$1,624,857 \$2,664,480 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$1																0%
SUMMARY BY CLASS R		Over 200 units					0%	U%	0%	0%	\$3.00					0%
R			300,303	342,103	112,302	703,130							\$1,035,023	Φ1,024,03 1	\$2,004,460	
MR 50,150 46,216 16,877 113,243 16% 14% 15% 15% \$195,978 \$252,577 \$448,555 17C 16,081 15,427 5,625 37,133 5% 5% 5% 5% 5% \$58,983 \$80,417 \$139,400 55 1 13,747 24,238 5,639 43,624 4% 7% 5% 6% \$59,323 \$137,291 \$196,614 77		IARY BY CLASS	004.050	040.007	00.470	550.044	700/	700/	700/	700/			****	44 000 004	44 700 004	070/
C 16,081 15,427 5,625 37,133 5% 5% 5% 5% 5% \$58,983 \$80,417 \$139,400 58 I 13,747 24,238 5,639 43,624 4% 7% 5% 6% \$59,323 \$137,291 \$196,614 77 L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,369 \$17,475 \$26,844 14 PM 4,909 6,229 1,383 12,521 2% 2% 1% 2% \$22,432 \$35,792 \$58,224 28 S 30 79 37 146 0% 0% 0% 0% 0% \$81 \$341 \$422 00 O 154 198 95 447 0% 0% 0% 0% 0% \$483 \$977 \$1,459 00 V 9 33 6 48 0% 0% 0% 0% 0% \$483 \$977 \$1,459 00 TOTAL 308,585 342,183 112,382 763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 55			,			•										67%
I 13,747 24,238 5,639 43,624 4% 7% 5% 6% \$59,323 \$137,291 \$196,614 77 L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,369 \$17,475 \$26,844 14 PM 4,909 6,229 1,383 12,521 2% 2% 1% 2% \$22,432 \$35,792 \$58,224 22 S 30 79 37 146 0% 0% 0% 0% 0% \$81 \$341 \$422 0 O 154 198 95 447 0% 0% 0% 0% 0% \$81 \$341 \$422 0 O 9 33 6 48 0% 0% 0% 0% 0% \$483 \$977 \$1,459 0 V 9 33 6 48 0% 0% 0% 0% 0% \$24 \$106 \$130 0 TOTAL 308,585 342,183 112,382 763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 55													•			17% 5%
L 2,147 3,556 241 5,944 1% 1% 0% 1% \$9,369 \$17,475 \$26,844 19 PM 4,909 6,229 1,383 12,521 2% 2% 1% 2% \$22,432 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,792 \$58,224 22 \$35,000 \$36,000 \$			-													5% 7%
PM 4,909 6,229 1,383 12,521 2% 2% 1% 2% \$22,432 \$35,792 \$55,224 22 \$3 \$3 \$3 \$7 9 \$37 146 0% 0% 0% 0% \$81 \$341 \$422 00 \$35 \$35 \$342 183 197 \$1,459 100 \$385,585 342,183 112,382 763,150 100% 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 \$308,585 342,183 112,382 763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 \$308,485 \$342,183 112,382 \$763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 \$308,485 \$342,183 112,382 \$763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 \$308,485 \$342,183 112,382 \$463,150 \$100,800 \$100,800 \$1,039,623 \$1,624,857 \$2,664,480 100 \$308,485 \$342,183 \$141,045 \$100,506 \$47,502 \$289,053 \$46% \$29% \$42% 38% \$382,232 \$401,102 \$783,334 \$299 \$9-30 units \$104,721 \$126,353 \$40,263 \$271,337 \$34% \$37% \$36% \$36% \$370,712 \$589,821 \$960,533 \$360 \$31-100 units \$30,579 \$63,213 \$13,523 \$107,315 \$10% \$18% \$12% \$14% \$129,655 \$325,361 \$455,016 \$170 \$101-200 units \$10,186 \$14,385 \$3,789 \$28,360 \$3% \$4% \$3% \$4% \$46,754 \$83,419 \$130,172 \$589,821 \$360,172 \$180 \$104,721 \$126,355 \$100,172 \$100,173	-												-		-	1%
\$\begin{array}{c ccccccccccccccccccccccccccccccccccc															-	2%
0 154 198 95 447 0% 0% 0% 0% \$483 \$977 \$1,459 0 V 9 33 6 48 0% 0% 0% 0% 24 \$106 \$130 0 TOTAL 308,585 342,183 112,382 763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 <			-													0%
V 9 33 6 48 0% 0% 0% 0% \$24 \$106 \$130 0 TOTAL 308,585 342,183 112,382 763,150 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5																0%
TOTAL 308,585 342,183 112,382 763,150 100% 100% 100% 100% \$1,039,623 \$1,624,857 \$2,664,480 100 \$SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 58																0%
SUMMARY BY TIER First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5																100%
First 8 units 141,045 100,506 47,502 289,053 46% 29% 42% 38% \$382,232 \$401,102 \$783,334 29 9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 58		IARY RY TIFR	•	•	•	•							•	•	•	
9 - 30 units 104,721 126,353 40,263 271,337 34% 37% 36% 36% \$370,712 \$589,821 \$960,533 36 31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5			141 045	100 506	47 502	289 053	46%	20%	42%	38%			\$382 222	\$401 102	\$783 334	29%
31 - 100 units 30,579 63,213 13,523 107,315 10% 18% 12% 14% \$129,655 \$325,361 \$455,016 17 101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5						•										36%
101 - 200 units 10,186 14,385 3,789 28,360 3% 4% 3% 4% \$46,754 \$83,419 \$130,172 5						•										17%
			-		-										-	5%
Over 200 units 22,054 37,726 7,305 67,085 7% 11% 7% 9% \$110,270 \$225,155 \$335,425 13							7%		7%	9%						13%
																100%
40% : % Jan-Jun 60% : % Jul-Dec					-	•										

Table C-2 Revenues by Tiers and

	ues by Tiers and lass, 2010-2012							20)12						
USE	1400, 2010 2012	Jan-	Jul-	Nov-		Jan-	Jul-	Nov-	, <u></u>	Ra	ite	Jan-	Jul-		
CODE	TIER	Jun	Oct	Dec	Total	Jun	Oct .	Dec	Total	Jan-Jun		Jun	Dec	Total	% Tot \$
R R	First 8 units 9 - 30 units	125,528	88,951	42,075 36,314	256,554	54% 38%	33% 42%	46% 40%	43% 40%	\$2.71 \$3.54	\$2.71 \$3.54	\$340,181	\$355,080	\$695,261 \$842,049	36%
r. R	31 - 100 units	88,520 15,577	113,033 55,780	10,982	237,867 82,339	36% 7%	21%	12%	14%	\$4.24	\$4.24	\$313,361 \$66,046	\$528,688 \$283,071	\$349,117	43% 18%
R	101 - 200 units	2,045	5,578	1,105	8,728	1%	2%	1%	1%	\$4.59	\$4.59	\$9,387	\$30,675	\$40,062	2%
R	Over 200 units	1,417	3,088	644	5,149	1%	1%	1%	1%	\$5.00	\$5.00	\$7,085	\$18,660	\$25,745	1%
MR	First 8 units	11,244	7,654	3,754	22,652	21%	15%	19%	18%	\$2.71	\$2.71	\$30,471	\$30,916	\$61,387	12%
MR	9 - 30 units	15,427	13,502	5,266	34,195	29%	26%	27%	28%	\$3.54	\$3.54	\$54,612	\$66,439	\$121,050	24%
MR	31 - 100 units	8,997	9,692	2,727	21,416	17%	19%	14%	17%	\$4.24	\$4.24	\$38,147	\$52,657	\$90,804	18%
MR MR	101 - 200 units Over 200 units	2,906 14,590	2,954 17,422	698 7,128	6,558 39,140	5% 27%	6% 34%	4% 36%	5% 32%	\$4.59 \$5.00	\$4.59 \$5.00	\$13,339 \$72,950	\$16,763 \$122,750	\$30,101 \$195,700	6% 39%
C	First 8 units	3,933	2,789	1,345	8,067	24%	18%	22%	22%	\$2.71	\$3.00 \$2.71	\$10,658	\$122,730	\$21,862	39 % 16%
C	9 - 30 units	5,073	4,434	1,875	11,382	31%	29%	31%	30%	\$3.54	\$3.54	\$17,958	\$22,334	\$40,292	29%
С	31 - 100 units	5,480	4,863	1,751	12,094	34%	32%	29%	32%	\$4.24	\$4.24	\$23,235	\$28,043	\$51,279	37%
С	101 - 200 units	1,624	2,387	707	4,718	10%	16%	12%	13%	\$4.59	\$4.59	\$7,454	\$14,201	\$21,656	15%
С	Over 200 units	98	637	339	1,074	1%	4%	6%	3%	\$5.00	\$5.00	\$490	\$4,880	\$5,370	4%
!	First 8 units	1,199	841	429	2,469	8%	3%	7%	5%	\$2.71	\$2.71	\$3,249	\$3,442	\$6,691	3%
!	9 - 30 units 31 - 100 units	2,262	1,863	895	5,020	15% 19%	7% 10%	14% 19%	10% 14%	\$3.54 \$4.24	\$3.54 \$4.24	\$8,007 \$12,042	\$9,763	\$17,771	8% 13%
! 	101 - 200 units	2,840 3,268	2,776 3,981	1,229 1,316	6,845 8,565	22%	15%	20%	18%	\$4.59	\$4.59	\$15,000	\$16,981 \$24,313	\$29,023 \$39,313	18%
I	Over 200 units	5,171	17,894	2,617	25,682	35%	65%	40%	53%	\$5.00	\$5.00	\$25,855	\$102,555	\$128.410	58%
 L	First 8 units	160	103	41	304	6%	3%	19%	5%	\$2.71	\$2.71	\$434	\$390	\$824	3%
L	9 - 30 units	342	235	78	655	12%	7%	35%	10%	\$3.54	\$3.54	\$1,211	\$1,108	\$2,319	8%
L	31 - 100 units	512	543	102	1,157	18%	15%	46%	17%	\$4.24	\$4.24	\$2,171	\$2,735	\$4,906	16%
L	101 - 200 units	322	320	0	642	11%	9%	0%	10%	\$4.59	\$4.59	\$1,478	\$1,469	\$2,947	10%
L	Over 200 units	1,471	2,391	0 48	3,862	52%	67%	0% 5%	58%	\$5.00	\$5.00	\$7,355	\$11,955	\$19,310	64%
PM PM	First 8 units 9 - 30 units	144 396	88 242	48 132	280 770	3% 9%	3% 8%	5% 14%	3% 9%	\$2.71 \$3.54	\$2.71 \$3.54	\$390 \$1,402	\$369 \$1,324	\$759 \$2,726	2% 7%
PM	31 - 100 units	1,024	752	280	2,056	23%	25%	30%	24%	\$4.24	\$4.24	\$4,342	\$4,376	\$8,717	23%
PM	101 - 200 units	1,024	714	283	2,088	25%	23%	30%	25%	\$4.59	\$4.59	\$5,008	\$4,576	\$9,584	25%
PM	Over 200 units	1,746	1,269	206	3,221	40%	41%	22%	38%	\$5.00	\$5.00	\$8,730	\$7,375	\$16,105	43%
S	First 8 units	50	54	45	149	75%	22%	37%	34%	\$2.71	\$2.71	\$136	\$268	\$404	27%
S	9 - 30 units	17	79	48	144	25%	32%	39%	33%	\$3.54	\$3.54	\$60	\$450	\$510	34%
S	31 - 100 units	0	89	30	119	0%	36%	24%	27%	\$4.24	\$4.24	\$0	\$505	\$505	33%
S S	101 - 200 units	0	22 0	0	22 0	0%	9% 0%	0%	5%	\$4.59	\$4.59	\$0 \$0	\$101	\$101 \$0	7%
ა 0	Over 200 units First 8 units	90	63	30	183	0% 50%	25%	0% 31%	0% 35%	\$5.00 \$2.71	\$5.00 \$2.71	\$0 \$244	\$0 \$252	\$0 \$496	0% 28%
0	9 - 30 units	89	137	48	274	50%	55%	50%	52%	\$3.54	\$3.54	\$315	\$655	\$970	55%
0	31 - 100 units	0	49	18	67	0%	20%	19%	13%	\$4.24	\$4.24	\$0	\$284	\$284	16%
0	101 - 200 units	0	0	0	0	0%	0%	0%	0%	\$4.59	\$4.59	\$0	\$0	\$0	0%
0	Over 200 units	0	0	0	0	0%	0%	0%	0%	\$5.00	\$5.00	\$0	\$0	\$0	0%
V	First 8 units	17	55	7	79	100%	90%	100%	93%	\$2.71	\$2.71	\$46	\$168	\$214	91%
V	9 - 30 units	0	6	0	6	0%	10%	0%	7%		\$3.54	\$0	\$21	\$21	9%
V V	31 - 100 units 101 - 200 units	0	0	0	0	0% 0%	0% 0%	0% 0%	0% 0%	\$4.24 \$4.59	\$4.24 \$4.59	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%
V	Over 200 units	0	0	0	0	0%	0%	0%	0%		\$5.00	\$0	\$0	\$0	0%
TOTAL		324,670		124,592	816,592					+0.00	+0.00	\$1,102,848			
SUMM	IARY BY CLASS														
R	21 02100	233,087	266,430	91,120	590,637	72%	73%	73%	72%			\$736.060	\$1,216,175	\$1,952.234	68%
MR		53,164	51,224	19,573	123,961	16%	14%	16%	15%			\$209,519	\$289,524	\$499,042	17%
С		16,208	15,110	6,017	37,335	5%	4%	5%	5%			\$59,796	\$80,662	\$140,458	5%
I		14,740	27,355	6,486	48,581	5%	7%	5%	6%			\$64,153	\$157,054	\$221,208	8%
L		2,807	3,592	221	6,620	1%	1%	0%	1%			\$12,648	\$17,657	\$30,305	1%
PM c		4,401	3,065	949	8,415	1%	1%	1%	1%			\$19,872	\$18,019	\$37,891	1%
S 0		67 179	244 249	123 96	434 524	0% 0%	0% 0%	0% 0%	0% 0%			\$196 \$559	\$1,323 \$1,191	\$1,519 \$1,750	0% 0%
V		179	61	7	85	0%	0%	0%	0%			\$46	\$1,191	\$1,750	0%
TOTAL		324,670	367,330	124,592	816,592	100%	100%	100%	100%			\$1,102,848			100%
	IARY BY TIER														
First 8		142,365	100,598	47,774	290,737	44%	27%	38%	36%			\$385,809	\$402,088	\$787,897	27%
9 - 30		112,126	133,531	44,656	290,313	35%	36%	36%	36%			\$396,926		\$1,027,708	36%
	00 units	34,430	74,544	17,119	126,093	11%	20%	14%	15%			\$145,983	\$388,651	\$534,634	19%
	200 units	11,256	15,956	4,109	31,321	3%	4%	3%	4%			\$51,665	\$92,098	\$143,763	5%
	00 units	24,493	42,701	10,934	78,128	8%	12%	9%	10%			\$122,465	\$268,175	\$390,640	14%
TOTAL		324,670 40%	367,330	124,592	816,592	100%	100%	100%	100%			\$1,102,848	\$1,781,795	\$2,884,643	100%

40% : % Jan-Jun 60% : % Jul-Dec



Appendix D: Revenue from Water Rates, FY13 – FY18

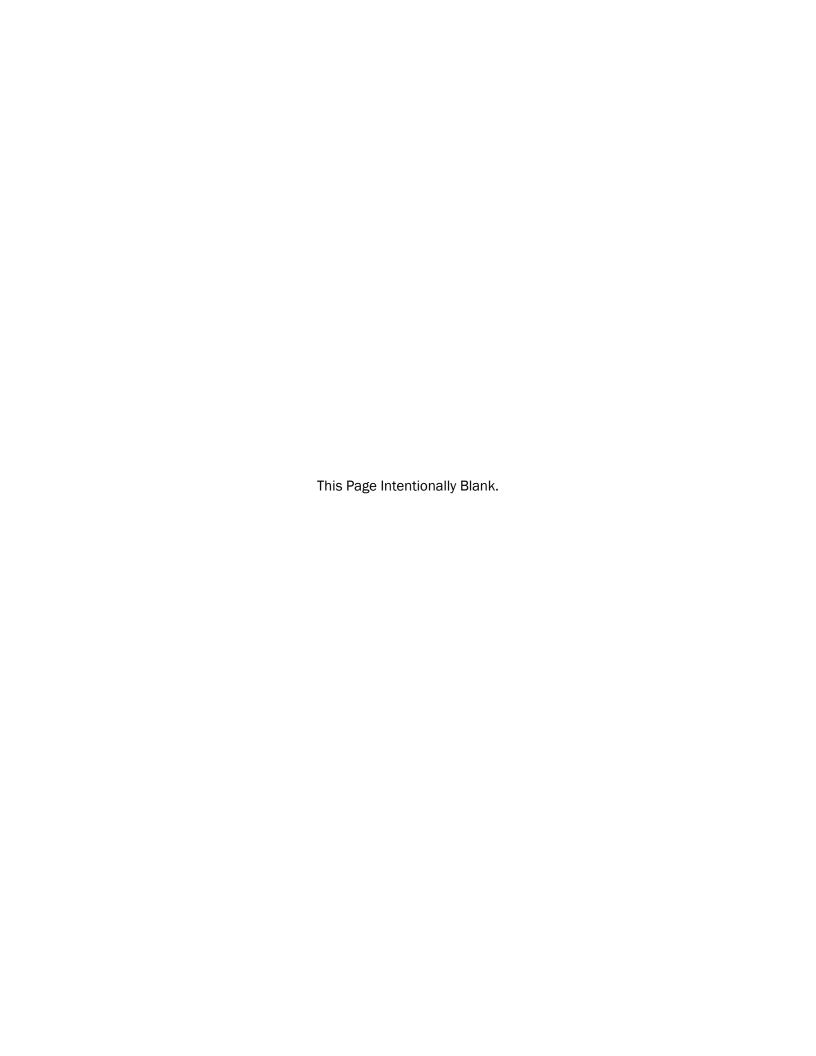


Table D-1 Revenues from Quantity Charges Current Rate Structure

Water Use, 100 cu ft	2010	2011	2012	FY13	FY14	FY15	FY16	FY17	FY18
First 10 units	340,139	340,420	343,146	340,000	341,000	342,000	344,000	346,000	348,000
11 - 40 units	268,469	256,693	280,716	262,500	258,000	253,000	247,000	241,000	235,000
41 - 100 units	75,190	70,761	83,216	73,000	72,000	70,000	68,000	66,000	64,000
101 - 200 units	28,173	28,360	31,274	28,000	27,000	26,000	25,000	24,000	23,000
Over 200 units	63,546	66,538	78,128	65,500	64,000	63,000	62,000	61,000	60,000
Flat Rate				0	0	0	0	0	0
Total	775,517	762,772	816,480	769,000	762,000	754,000	746,000	738,000	730,000
Water Use, % of Total									
First 10 units	44%	45%	42%	44%	45%	45%	46%	47%	48%
11 - 40 units	35%	34%	34%	34%	34%	34%	33%	33%	32%
41 - 100 units	10%	9%	10%	9%	9%	9%	9%	9%	9%
101 - 200 units	4%	4%	4%	4%	4%	3%	3%	3%	3%
Over 200 units	8%	9%	10%	9%	8%	8%	8%	8%	8%
Flat Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%
Rate, \$/100 cu ft	2010	2011	2012	FY13	FY14	FY15	FY16	FY17	FY18
First 10 units	\$2.71	\$2.71	\$2.71	\$2.71	\$3.06	\$3.46	\$3.74	\$4.04	\$4.36
11 - 40 units	\$3.54	\$3.54	\$3.54	\$3.54	\$4.00	\$4.52	\$4.88	\$5.27	\$5.69
41 - 100 units	\$4.24	\$4.24	\$4.24	\$4.24	\$4.79	\$5.41	\$5.84	\$6.31	\$6.81
101 - 200 units	\$4.59	\$4.59	\$4.59	\$4.59	\$5.19	\$5.86	\$6.33	\$6.84	\$7.39
Over 200 units	\$5.00	\$5.00	\$5.00	\$5.00	\$5.65	\$6.38	\$6.89	\$7.44	\$8.04

Revenue, \$	2010	2011	2012	FY13	FY14	FY15	FY16	FY17	FY18
First 10 units	921,777	922,538	929,926	\$921,400	\$1,043,460	\$1,183,320	\$1,286,560	\$1,397,840	\$1,517,280
11 - 40 units	950,380	908,693	993,735	\$929,250	\$1,032,000	\$1,143,560	\$1,205,360	\$1,270,070	\$1,337,150
41 - 100 units	318,806	300,027	352,836	\$309,520	\$344,880	\$378,700	\$397,120	\$416,460	\$435,840
101 - 200 units	129,314	130,172	143,548	\$128,520	\$140,130	\$152,360	\$158,250	\$164,160	\$169,970
Over 200 units	317,730	332,690	390,640	\$327,500	\$361,600	\$401,940	\$427,180	\$453,840	\$482,400
Flat Rate				\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,638,000	\$2,594,000	\$2,811,000	\$2,616,000	\$2,922,000	\$3,260,000	\$3,474,000	\$3,702,000	\$3,943,000
Average Rate	\$3.40	\$3.40	\$3.44	\$3.40	\$3.83	\$4.32	\$4.66	\$5.02	\$5.40
Revenue w/No Rate In	С				\$2,616,000	\$2,616,000	\$2,616,000	\$2,616,000	\$2,616,000
Revenue from Rate Inc	;								
Annual					\$306,000	\$644,000	\$858,000	\$1,086,000	\$1,327,000
Cumulative					\$306,000	\$950,000	\$1,808,000	\$2,894,000	\$4,221,000

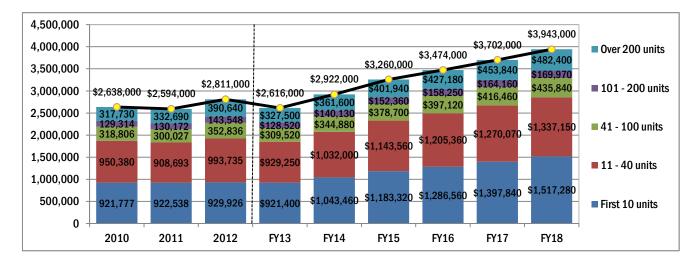


Table D-2 Revenues from Quantity Charges Updated Rate Structure

Water Use, 100 cu ft	FY13	FY14	FY15	FY16	FY17	FY18
First 8 units	310,931	314,000	315,000	316,000	317,000	318,000
9 - 30 units	274,700	269,000	264,000	259,000	254,000	249,000
31 - 100 units	85,914	84,000	82,000	80,000	78,000	76,000
101 - 200 units	9,021	9,000	9,000	9,000	9,000	9,000
Over 200 units	3,566	3,000	3,000	3,000	3,000	3,000
Flat Rate	85,101	83,000	81,000	79,000	77,000	75,000
Total	769,232	762,000	754,000	746,000	738,000	730,000
Water Use, % of Total						
First 8 units	40%	41%	42%	42%	43%	44%
9 - 30 units	36%	35%	35%	35%	34%	34%
31 - 100 units	11%	11%	11%	11%	11%	10%
101 - 200 units	1%	1%	1%	1%	1%	1%
Over 200 units	0%	0%	0%	0%	0%	0%
Flat Rate	11%	11%	11%	11%	10%	10%
Rate, \$/100 cu ft	FY13	FY14	FY15	FY16	FY17	FY18
First 8 units	\$2.78	\$3.14	\$3.55	\$3.83	\$4.14	\$4.47
9 - 30 units	\$3.64	\$4.11	\$4.64	\$5.01	\$5.41	\$5.84
31 - 100 units	\$4.36	\$4.93	\$5.57	\$6.02	\$6.50	\$7.02
101 - 200 units	\$4.72	\$5.33	\$6.02	\$6.50	\$7.02	\$7.58
Over 200 units	\$5.14	\$5.81	\$6.57	\$7.10	\$7.67	\$8.28
Flat Rate	\$3.40	\$3.84	\$4.34	\$4.69	\$5.07	\$5.48
Revenue, \$	FY13	FY14	FY15	FY16	FY17	FY18
First 8 units	\$864,389	\$985,960	\$1,118,250	\$1,210,280	\$1,312,380	\$1,421,460
9 - 30 units	\$999,907	\$1,105,590	\$1,224,960	\$1,297,590	\$1,374,140	\$1,454,160
31 - 100 units	\$374,583	\$414,120	\$456,740	\$481,600	\$507,000	\$533,520
101 - 200 units	\$42,581	\$47,970	\$54,180	\$58,500	\$63,180	\$68,220
Over 200 units	\$18,327	\$17,430	\$19,710	\$21,300	\$23,010	\$24,840
Flat Rate	\$289,342	\$318,720	\$351,540	\$370,510	\$390,390	\$411,000
Total	\$2,589,000	\$2,890,000	\$3,225,000	\$3,440,000	\$3,670,000	\$3,913,000
Average Rate	\$3.37	\$3.79	\$4.28	\$4.61	\$4.97	\$5.36
Over 100 Units	\$60,908	\$65,400	\$73,890	\$79,800	\$86,190	\$93,060
Revenue w/No Rate Inc		\$2,616,000	\$2,616,000	\$2,616,000	\$2,616,000	\$2,616,000
Revenue from Rate Inc						
Annual		\$274,000	\$609,000	\$824,000	\$1,054,000	\$1,297,000
Cumulative		\$274,000	\$883,000	\$1,707,000	\$2,761,000	\$4,058,000

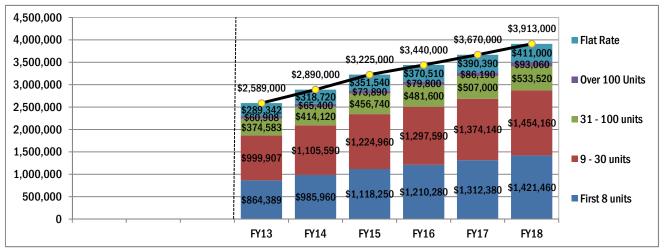
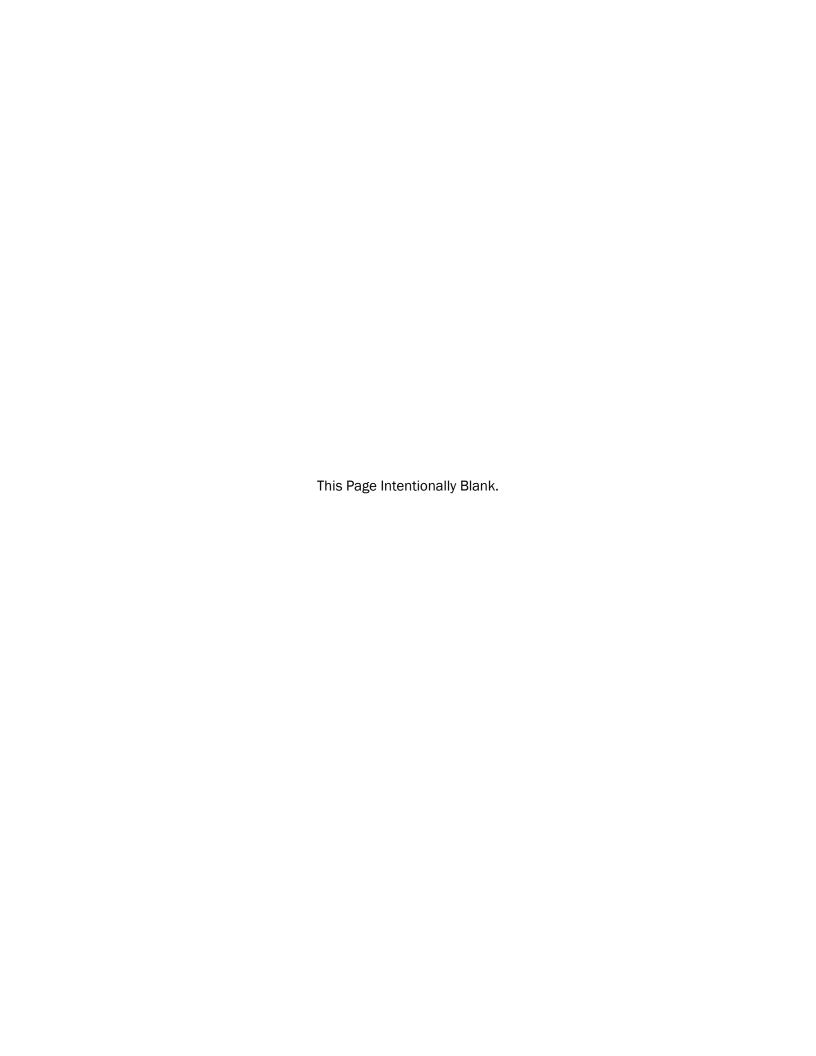


Table D-3 Revenues from Meter Charges

Meter Size	FY13	FY14	FY15	FY16	FY17	FY17
5/8	6,149	6,202	6,202	6,202	6,202	6,202
5/8A	417	417	417	417	417	417
5/8B	10	10	10	10	10	10
5/8C	1	1	1	1	1	1
3/4	407	407	407	407	407	407
3/4A	4	4	4	4	4	4
1	85	85	85	85	85	85
1A	87	87	87	87	87	87
1B	1	1	1	1	1	1
1F/K	116	116	116	116	116	116
1-1/2	23	23	23	23	23	23
1-1/2A	2	2	2	2	2	2
1-1/2C	0	0	0	0	0	0
1-1/2F	2	2	2	2	2	2
1-1/2G	1	1	1	1	1	1
1-1/2\$	1	1	1	1	1	1
2	32	32	32	32	32	32
2A	1	1	1	1	1	1
2G/L	2	2	2	2	2	2
3	3	3	3	3	3	3
4	1	1	1	1	1	1
Total	7,345	7,398	7,398	7,398	7,398	7,398

^{*}Annexation of the Olympia Mutual Water Company is expected to add 51 accounts in FY14 (another 2 accounts incidental to the annexation

Meter Size	FY13	FY14	FY15	FY16	FY17	FY18
5/8	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22
5/8A	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00
5/8B	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00
5/8C	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00
3/4	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22
3/4A	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00
1	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00
1A	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00
1B	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00
1F/K	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22
1-1/2	\$166.92	\$189.00	\$214.00	\$233.00	\$254.00	\$277.00
1-1/2A	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00
1-1/2C	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00
1-1/2F	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00
1-1/2G	\$49.73	\$56.19	\$63.49	\$69.20	\$75.43	\$82.22
1-1/2S	\$531.36	\$600.00	\$678.00	\$739.00	\$806.00	\$879.00
2	\$265.68	\$300.00	\$339.00	\$370.00	\$403.00	\$439.00
	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00
2G/L	\$82.90	\$93.68	\$106.00	\$116.00	\$126.00	\$137.00
3	\$498.62	\$563.00	\$636.00	\$693.00	\$755.00	\$823.00
4	\$829.76	\$938.00	\$1,060.00	\$1,155.00	\$1,259.00	\$1,372.00
Motor Cizo	FY13	FY14	FY15	FY16	FY17	FY18
Meter Size	FY13	FY14	FY15	FY16	FY17	FY18 \$3,050,571
5/8	\$1,834,739	\$2,090,942	\$2,362,590	\$2,575,070	\$2,806,901	\$3,059,571
5/8 5/8A	\$1,834,739 \$207,416	\$2,090,942 \$234,387	\$2,362,590 \$265,212	\$2,575,070 \$290,232	\$2,806,901 \$315,252	\$3,059,571 \$342,774
5/8 5/8A 5/8B	\$1,834,739 \$207,416 \$10,015	\$2,090,942 \$234,387 \$11,340	\$2,362,590 \$265,212 \$12,840	\$2,575,070 \$290,232 \$13,980	\$2,806,901 \$315,252 \$15,240	\$3,059,571 \$342,774 \$16,620
5/8 5/8A 5/8B 5/8C	\$1,834,739 \$207,416 \$10,015 \$1,594	\$2,090,942 \$234,387 \$11,340 \$1,800	\$2,362,590 \$265,212 \$12,840 \$2,034	\$2,575,070 \$290,232 \$13,980 \$2,220	\$2,806,901 \$315,252 \$15,240 \$2,418	\$3,059,571 \$342,774 \$16,620 \$2,634
5/8 5/8A 5/8B 5/8C 3/4	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781
5/8 5/8A 5/8B 5/8C 3/4 3/4A	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288
5/8 5/8A 5/8B 5/8C 3/4 3/4A	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1 1A 1B	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$0	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268
5/8 5/8A 5/8B 5/8C 3/4 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$0 \$1,124	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$0 \$1,644
5/8 5/8A 5/8B 5/8C 3/4 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$1,124 \$337	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$1,644 \$493
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$1,124 \$337 \$3,600	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$1,644 \$493 \$5,274
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S 2	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298 \$3,188	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$0 \$1,124 \$337 \$3,600 \$57,600	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381 \$4,068 \$65,088	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434 \$71,040	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836 \$77,376	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$0 \$1,644 \$493 \$5,274
5/8 5/8A 5/8B 5/8C 3/4 3/4A 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S 2 2A	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298 \$3,188 \$51,011 \$2,992	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$0 \$1,124 \$337 \$3,600 \$57,600 \$3,378	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381 \$4,068 \$65,088 \$3,816	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434 \$71,040 \$4,158	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836 \$77,376 \$4,530	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$57,225 \$38,226 \$5,268 \$0 \$1,644 \$43 \$5,274 \$84,288 \$4,938
5/8 5/8A 5/8B 5/8C 3/4 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S 2 2A 2G/L	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298 \$3,188 \$51,011 \$2,992 \$995	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$1,124 \$337 \$3,600 \$57,600 \$3,378 \$1,124	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381 \$4,068 \$65,088 \$3,816 \$1,272	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434 \$71,040 \$4,158 \$1,392	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836 \$77,376 \$4,530 \$1,512	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$1,644 \$493 \$5,274 \$84,288 \$4,938 \$1,644
5/8 5/8A 5/8B 5/8C 3/4 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S 2 2A 2G/L 3	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298 \$3,188 \$51,011 \$2,992 \$995 \$8,975	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$0 \$1,124 \$337 \$3,600 \$57,600 \$3,378 \$1,124 \$10,134	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381 \$4,068 \$65,088 \$3,816 \$1,272 \$11,448	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434 \$71,040 \$4,158 \$1,392 \$12,474	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836 \$77,376 \$4,530 \$1,512 \$13,590	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$0 \$1,644 \$493 \$5,274 \$84,288 \$4,938 \$4,938
5/8 5/8A 5/8B 5/8C 3/4 1 1A 1B 1F/K 1-1/2 1-1/2A 1-1/2C 1-1/2F 1-1/2G 1-1/2S 2 2A 2G/L	\$1,834,739 \$207,416 \$10,015 \$1,594 \$121,441 \$1,990 \$42,279 \$87,132 \$1,594 \$34,612 \$23,035 \$3,188 \$0 \$995 \$298 \$3,188 \$51,011 \$2,992 \$995	\$2,090,942 \$234,387 \$11,340 \$1,800 \$137,216 \$2,248 \$47,777 \$98,658 \$1,800 \$39,108 \$26,082 \$3,600 \$1,124 \$337 \$3,600 \$57,600 \$3,378 \$1,124	\$2,362,590 \$265,212 \$12,840 \$2,034 \$155,043 \$2,544 \$54,060 \$111,708 \$2,034 \$44,189 \$29,532 \$4,068 \$0 \$1,272 \$381 \$4,068 \$65,088 \$3,816 \$1,272	\$2,575,070 \$290,232 \$13,980 \$2,220 \$168,986 \$2,784 \$59,160 \$121,626 \$2,220 \$48,163 \$32,154 \$4,440 \$0 \$1,392 \$415 \$4,434 \$71,040 \$4,158 \$1,392	\$2,806,901 \$315,252 \$15,240 \$2,418 \$184,200 \$3,024 \$64,260 \$132,588 \$2,418 \$52,499 \$35,052 \$4,836 \$0 \$1,512 \$453 \$4,836 \$77,376 \$4,530 \$1,512	\$3,059,571 \$342,774 \$16,620 \$2,634 \$200,781 \$3,288 \$69,870 \$144,594 \$2,634 \$57,225 \$38,226 \$5,268 \$1,644 \$493 \$5,274 \$84,288 \$4,938 \$1,644



MEMO

TO: District Manager FROM: Finance Manager

SUBJECT: FY1415 REVENUE COMPARISON

DATE: May 29, 2015

RECOMMENDATION:

It is recommended that the District Manager review and discuss in the Finance Committee meeting.

BACKGROUND:

The FY1415 budgeted revenue was based on a forecasting template. This template had incorrectly double counted the flat rate usage within the regular tiered usage. This resulted in an approximate \$400K excess usage revenue calculation.

In addition to the above, District customers were conserving more water than forecasted. This resulted in a \$225K reduction in expected revenue.

The combination of these two events is what is driving the original FY1415 revenue budget from \$5.9M down to an estimated \$5.2M.

Within this comparison, I have also included the comparison for FY1415 for what the original rate study was showing. The rate study was done before drought contingencies were known. Comparing these numbers against the estimated \$5.2M is a good place to start the analysis for how the drought contingencies have affected District revenue.

REVENUE COMPARISON FOR FY 1415

			Revised Incld	
	Orig. 1415	Revised for	Actuals thru	Orig. Rate
Water Use, 100 cu ft	Budget	Usage Dbl Up	Feb	Study
Tier 1	288,580	280,240	407,465	315,000
Tier 2	255,050	241,550	171,338	264,000
Tier 3	100,050	82,040	22,107	82,000
Tier 4	52,790	13,310	2,150	12,000
Flat Rate	79,330	79,330	85,689	81,000
Total	775,800	696,470	688,749	754,000
Water Use, % of Total				
Tier 1	37.2%	40.2%	59.2%	41.8%
Tier 2	32.9%	34.7%	24.9%	35.0%
Tier 3	12.9%	11.8%	3.2%	10.9%
Tier 4	6.8%	1.9%	0.3%	1.6%
Flat Rate	10.2%	11.4%	12.4%	10.7%
Revenue, \$				
Tier 1	\$ 930,959	\$ 904,054	\$ 1,314,483	\$ 1,021,545
Tier 2	\$ 1,075,291	\$ 1,018,375	\$ 722,360	\$ 1,118,832
Tier 3	\$ 505,453	\$ 414,466	\$ 111,687	\$ 416,437
Tier 4	\$ 295,413	\$ 74,483	\$ 12,031	\$ 67,490
Flat Rate	\$ 312,084	\$ 312,084	\$ 337,099	\$ 320,315
Total Usage	\$ 3,119,000	\$ 2,723,000	\$ 2,497,660	\$ 2,944,619

Basic Fee \$ 2,740,000 \$ 2,740,000 \$ 2,740,000

[A] [B] [C] [D]
TOTAL REVENUE \$ 5,859,000 \$ 5,463,000 \$ 5,237,660 \$ 5,684,619

Due to double-up	B - A	\$ (396,000)
Due to extra conservation	C - B	\$ (225,340)
Total gap from orig. budget	C - A	\$ (621,340)
Due to conservation from study	C - D	\$ (446,959)