



## SPECIAL MEETING OF THE BOARD OF DIRECTORS

# AGENDA

THURSDAY, May 30, 2019

7:00 PM

President- Richard Smith  
Vice President-Wayne Holman  
Director- Marcus Dutra  
Director- Wayne Norton  
Director- James Leap  
General Manager- Robert Johnson  
Board Secretary-Louise Coombes

- I. **CALL TO ORDER**
- II. **ROLL CALL OF DIRECTORS:** President Richard Smith, Vice President Wayne Holman, Directors, Marcus Dutra, Wayne Norton and James Leap.
- III. **PLEDGE OF ALLEGIANCE**
- IV. **STATEMENTS OF DISQUALIFICATION**
- V. **ADDITIONS AND DELETIONS**
- VI. **MINUTES:** Motion to approve the Minutes of the April 23, 2019 Regular Board Meeting p.3-5
- VII. **ORAL COMMUNICATION:** *Anyone wishing to address the Board on informational items, staff reports or matters not listed on the agenda may do so during Oral Communications. Please limit your comment to three (3) minutes. The public may comment on listed Action and Public Hearing items at the time they are considered by the Board.*
- VIII. **PRESENTATIONS & REPORTS**
  - A. DIRECTORS' REPORTS
  - B. ATTORNEY'S REPORT
  - C. MANAGER'S REPORT p.6-9
  - D. CORRESPONDENCE p.10-11
- IX. **ACTION ITEMS:**
  - A. **Consider receiving the DRAFT Water Rate and Capacity Charge Study, and providing direction to Staff** p.12-91

Mr. Thomas Pavletic (Municipal Financial Services) will present the DRAFT Water Rates and Capacity Charges Study report for discussion and Board direction.
  - B. **Consider adopting the Proposed Capital Budget of \$219,074 for Fiscal Year 2019-2020** p.92-93

Staff will present a report on the Proposed Capital Budget of \$219,074 for discussion and Board action.
  - C. **Consider adopting the Expense Budget of \$1,539,020 for Fiscal Year 2019-2020** p.94-97

Staff will present the Proposed Expense Budget of \$1,539,020 for discussion and Board action.
  - D. **Financial Reports for the Month of April 2019** p.98-103

Oakridge and Orchard Acres Assessment Districts are now included in the financial reports. Therefore, the reports show a Total Revenue of \$167,085.15; Total expenditures were \$150,711.08 between April 18, 2019 and May 20, 2019. These financials and monthly expenditures will be presented for discussion and approval.
  - E. **Adjourn to Closed Session**

As permitted by Government Code Section 54956.9, the Board will adjourn to a closed session to discuss personnel matters.

    - a. *Performance Evaluation – General Manager*
  - F. **Return to Open Session**

Statement of any action from Closed Session
- X. **FUTURE MEETINGS & AGENDA ITEMS** Next meeting ó Tuesday, June 25, 2019
- XI. **ADJOURNMENT**

PAGE INTENTIONALLY LEFT BLANK

**Minutes of the Regular Meeting of  
the Board of Directors of the Aromas Water District  
April 23, 2019**

- I. **CALL TO ORDER.** The regular meeting of the Board of Directors of the Aromas Water District was called to order by President Smith on Tuesday, April 23, 2019 at 7.01 p.m. at the District office located at 388 Blohm Ave, Aromas, California.
- II. **ROLL CALL.** President Smith, Vice President Holman and Directors Norton, Leap and Dutra were present. Also in attendance were General Manager Robert Johnson, Counsel Bob Bosso, Management Consultant Morris, Board Secretary Louise Coombes as well as Staff Ester Girõn and Naomi Bowman.
- III. **PLEDGE OF ALLEGIANCE.** Vice President Holman led the pledge of allegiance.
- IV. **STATEMENTS OF DISQUALIFICATION.** There were no disqualification statements.
- V. **ADDITIONS AND DELETIONS.** There were no additions or deletions to the Agenda.
- VI. **MINUTES.** The minutes of the March 26, 2019 Board Meeting were presented for review and approval; there were no corrections or comments. Director Norton moved for approval of the minutes and Director Leap seconded. Minutes were unanimously approved with all Directors present.
- VII. **ORAL COMMUNICATION.** There were no public comments.

**VIII. REPORTS/PRESENTATIONS**

- A. **Director's Reports.** Director Leap mentioned that the Ad-Hoc Budget Committee recently met and spent considerable time discussing the rate study upon which next year's revenue and expenses hinge. The Committee determined that the full Board should have the opportunity to discuss the full Capital Budget after Tom Pavletic from MFS presented the preliminary findings of the Rate Study.
- B. **Attorney's Report.** Counsel Bosso reported that many of the current cases, he is following, have stalled. The Glendale case, dealing with tiered rates, has been rejected by the Supreme Court, therefore the lack of consistent ruling among the Courts leaves the issue in limbo for the time being.
- C. **Manager's Report**

***OPERATIONS***

No additional meters were installed in March so the total number of meters remains at 957 on 902 parcels. All water testing continues to be both, filed on time and represent satisfactory results.

***Production & Well Levels***

GM Johnson reported total production, in March 2019 is just over 4.6 million gallons; the daily average at 149,679 gallons. Pleasant Acres Well was not run during March, and San Juan Well was not used for three days of March, whereas Carpenteria was run the entire month. This calendar year to date, total production is 13,622,060 gallons.

Reporting well levels; Carpenteria Well is down three feet, San Juan Well is down seven feet, Marshall Well is down five feet and Aimee Meadows Well is down six feet.

***Incidents***

There were no incidents to report this month.

***ADMINISTRATIVE***

***Staff & Board Recognition***

GM Johnson continues to remind the Board that AC Giron and ASO Coombes are keeping everything running smoothly whilst CSR Bowman is undergoing training.

GM Johnson gave credit to CO DeAlba who continues to work very hard to keep the system running smoothly. Temporary Operator Shaun Smith is now working at the District full-time and has been doing a

very good job. He has progressed to being on call for some weekend coverage to give CO DeAlba some relief.

The search for a new Operator has begun and the closing date for applications is Friday, April 26, 2019. More about this will be discussed at closed session at the end of the meeting.

GM Johnson recently met with a managed information technology consultant to explore some options to improve the District's technology.

GM Johnson was due to meet with Jeff Cataneo the GM for San Benito County Water and several members of the San Benito County (SBCo) Planning Department earlier in the month, however, the meeting was rescheduled to April 24th, so the report on this will be at next month's meeting.

GM Johnson reported that the tank cleaning was performed as scheduled on April 15/16, 2019, and there was no urgent repair work recommended. A full detailed report, including video footage of all tanks is forthcoming.

### ***Conservation & Rainfall***

According to the rain gauge at Chittenden, since the beginning of the rain year, October 1, 2018, a total of 23.16" has been recorded, including the reading for today, with almost .5" falling in April.

### ***Projects***

#### **60th Anniversary Celebration**

GM Johnson reported that he has written a number of letters to local Legislators and Supervisors to obtain Resolutions to recognize the 60th year of the District's operation. The Monterey County Board of Supervisors will be providing a Resolution on July 9, 2019 at their meeting. GM Johnson will invite San Benito County Supervisor Anthony Bothelo to attend the District Board meeting in July to present their Resolution in person.

At the upcoming Association of California Water Agencies (ACWA) Conference in Monterey, GM Johnson reported that the District has sponsored a fruit-infused water station to recognize the District's 60th year.

- D. Correspondence.** Director Dutra inquired about the email from ACWA JPIA regarding full replacement cost for District vehicles; GM Johnson clarified that ACWA JPIA are the District's insurance provider and the vehicle insurance was recently upgraded for a small additional premium per year to provide for full replacement of a vehicle.

Director Norton inquired about the recent calibration of a meter that a customer was claiming was inaccurate; the calibration bench test proved the accuracy of the meter.

## **IX. ACTION ITEMS**

### **A. Consider receiving an update on the Water Rates and Capacity Charges Study.**

Tom Pavletic from MFS performed the District's previous rate study in 2014 and returns to provide a new study in 2019. The previous rate study resulted in five years of rate increases, on average of roughly 5% per year, with the last being implemented in July 2018. The last two Financial Audits have revealed a negative net position for the District, indicating the necessity for further rate increases. Not only is there a need to improve the fiscal position of the District, there is also a need to build capital reserves for aging infrastructure, increase the emergency reserve and the potential of capital improvement projects.

Mr Pavletic reiterated the concept of a Cost to Service increase in rates, which is not simply an across-the-board increase, but for every rate and every year we establish a nexus of the cost of a service and the rate, resulting in different percentages for each rate.

Numerous factors and use characteristics are utilized in order to project water use over the coming years. With the potential for future conservation, rate increases are likely to result in a revenue neutral position. In parallel with the previous study, the threshold for the tiered rates are proposed to be shifted down to match the new usage patterns.

No motion was made, however after discussion, the Board were in agreement for a 6% ceiling on a raise in

rates and Mr Pavletic was directed to continue and produce a preliminary draft of the Rate Study for review and approval at the next Board Meeting.

**B. Consider receiving an update on the Cole Road Annexation in the Aromas Water Boundary; adopting Resolution 2019-03 and Resolution 2019-04 certifying a Categorical Exemption for the Cole Road Annexation and approving the agreement with PVWMA.**

GM Johnson outlined that these two Resolutions initiate the annexation process and then certify that a categorical exemption is appropriate. In addition, the Board should approve the agreement with PVWMA.

Vice President Holman moved to adopt Resolutions 2019-03 and 2019-04. The motion was seconded by Director Norton. Both Resolutions were unanimously adopted with a roll-call vote with all Directors present.

Director Norton moved to adopt the Agreement with PVWMA. The motion was seconded by Director Dutra. There was no discussion. The Agreement with PVWMA was unanimously approved with all Directors present.

**C. Consider adopting Resolution 2019-05, declaring May as Water Awareness Month**

GM Johnson outlined the annual opportunity to draw attention to Water Conservation.

Director Norton moved to adopt Resolution 2019-05 and was seconded by Director Leap. There was no discussion. Resolution 2019-05 was unanimously approved with a roll-call vote with all Directors present.

**D. Financial Reports for the Month of March 2019**

The total revenue for March was \$64,628.53; Total expenditures were \$77,697.52 between March 21 and April 17, 2019.

On the **Balance Sheet**, *Total Assets / Liabilities & Equity* are \$11,579,720.50, of which *Total Current Assets* are \$4,338,851.55, and *Total Fixed Assets* are \$7,051,588.15. In *Liabilities*, the *Total Current Liabilities* are \$243,552.25, *Long Term Liabilities* are \$4,882,231.26.

In the **P&L Report**, *Water Revenue* for February was \$64,628.53 as compared to the budgeted \$72,100.00, however, the year to date shows that revenue is approximately \$50,000 more than budget at this point.

In the **Monthly Expenditures**. Director Dutra enquired the purpose of the West Valley Construction expense. GM Johnson clarified that a meter box had been installed in the wrong location some time ago. Director Norton enquired about contracting out such work. GM Johnson explained that since the low staffing levels CO DeAlba's time is better spent on other tasks, especially since exposing the main line requires hiring and operating a backhoe as well as asphalt work. Vice President Holman expressed a wish to see more of this kind of work brought back in house.

Director Norton moved to adopt the Financial Reports as presented; seconded by Director Leap. The Financial Reports were unanimously accepted with all Directors present.

**X. FUTURE MEETINGS & AGENDA ITEMS.** The next special meeting will be on *Thursday*, May 30, 2019 at 7:00pm.

**XI. ADJOURN TO CLOSED SESSION.** At 8:48pm. GM Johnson reported on a personnel issue and another issue.

**XII. RETURN TO OPEN SESSION.** At 8:58pm President Smith announced that the General Manager was given direction.

**XIII. ADJOURNMENT.** President Smith adjourned the meeting at 8:59pm until *Thursday*, May 30, 2019.

Read and approved by: \_\_\_\_\_  
President, Richard Smith

Attest: \_\_\_\_\_  
Board Secretary, Louise Coombes

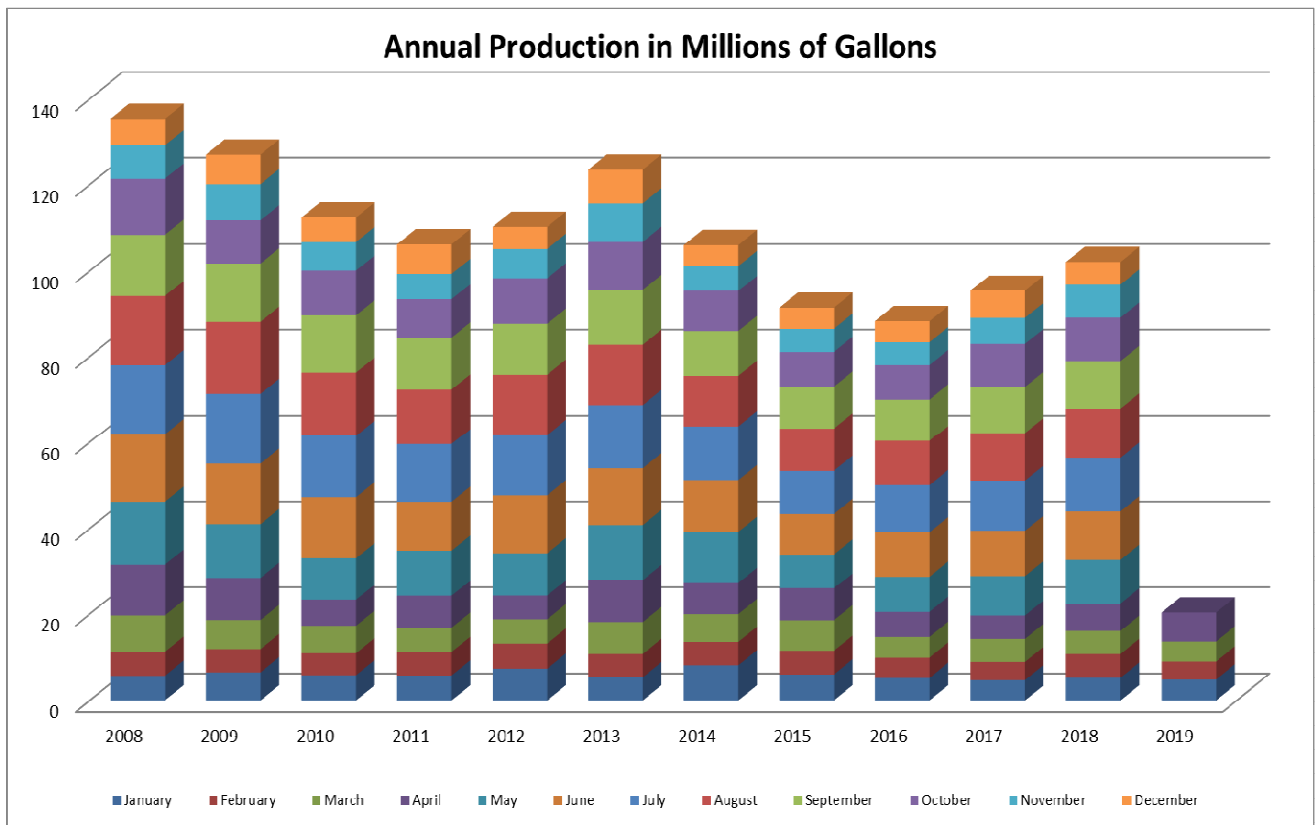
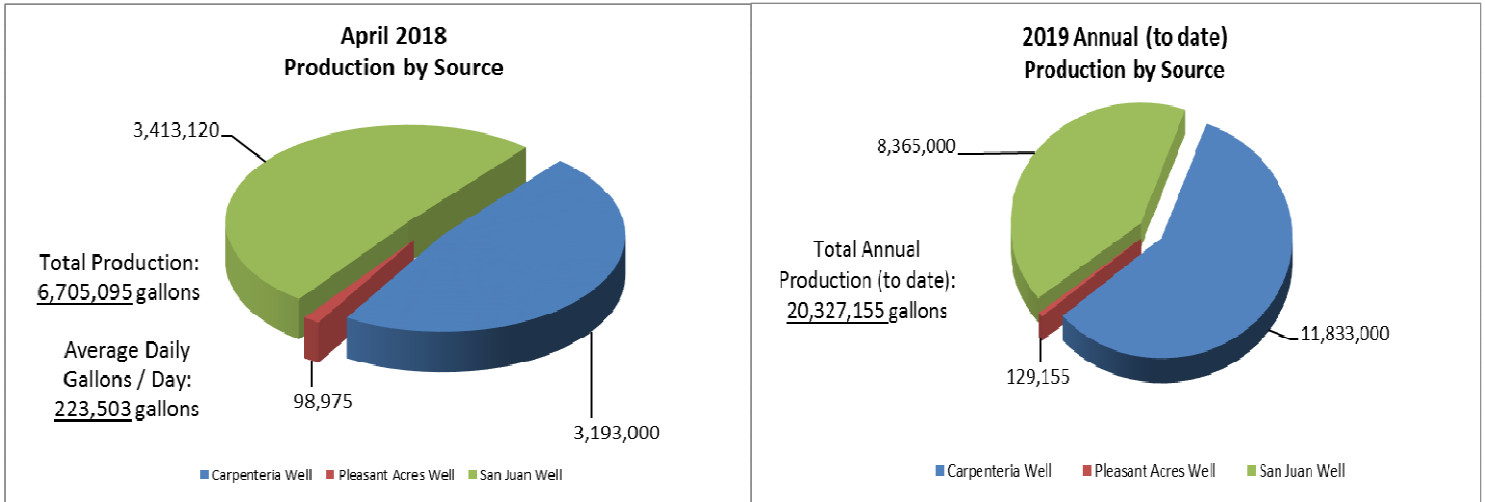
Date: \_\_\_\_\_

Date: \_\_\_\_\_

# General Manager's Report April 2019



## PRODUCTION REPORT



Totals	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Million Gal	135.38	126.9	112.37	106.15	110.17	123.42	105.97	91.27	88.152	95.304	102.07	<b>20.327</b>
Acre Ft	<b>415.4</b>	<b>389.4</b>	<b>344.8</b>	<b>325.7</b>	<b>338.05</b>	<b>378.7</b>	<b>325.16</b>	<b>280.05</b>	<b>270.49</b>	<b>292.43</b>	<b>313.18</b>	<b>62.371</b>

AWD – GM Report: April 2019

## **OPERATIONS AND MAINTENANCE REPORT**

### **OPERATIONS:**

- There are 957 total meters, on 902 parcels.
- Carpenteria well was operational the entire month, San Juan was not utilized for two days; while Pleasant Acres well was utilized three days this month.
- Water Treatment Plant; finished water was non-detect for both iron and manganese this month.
- Distribution testing for total Coliform; all samples negative.
- All monthly DWR reports on Coliform, and Mn / Fe were filed on time.
- WTP filters are being backwashed when necessary.
- Monthly Generator in-house 15-minute testing under load.
- Monthly well-level monitoring (see attached chart).

### **MAINTENANCE:**

- Preventative maintenance and flushing were performed, as needed
- Chlorine chemical pump maintenance and analyzer maintenance at all wells
- Replaced Uninterruptable Power Supplies (UPS) at Carr Booster and Rea tank
- Utilized a rented Kubota to access Ballantree tanks and perform reconnaissance on the Cole line – removed two downed trees
- Additional maintenance tasks are being performed as time allows

### **INCIDENTS:**

- None during this reporting period

## **ADMINISTRATIVE REPORT**

### **STAFF & BOARD RECOGNITION:**

- ASO Coombes submitted the Drinking Water Information Clearinghouse (DRINC) Report to the State on time. She will now be working on the Consumer Confidence Report (CCR).
- AC Girõn is preparing for the upcoming Financial Audit; interim testing (one of the initial steps) will be June 6 and 7, 2019. The Audit is currently scheduled for September 9 and 10, 2019.
- Chief Operator (CO) DeAlba has been keeping the District's infrastructure functioning, while providing increased training opportunities for Part-time Temporary Operator Smith.
- Interviews for Water System Operator were held on May 14, 2019. Outcome was the permanent hiring of Part-time Temporary Operator Shaun Smith; his first official day is June 3, 2019.
- Operator Smith is continuing to perform well and has been given increasing responsibilities by CO DeAlba.
- GM Johnson continues to participate in an online study group for the CSDA Special District Administrator (SDA) test. As a reminder, if the GM has an SDA certification, that provides additional steps towards the higher levels of the CSDA's District of Distinction awards.
- GM Johnson, along with Director Leap and Board President Smith attended the Association of California Water Agencies (ACWA) conference on May 8, 2019; GM Johnson went on the 9<sup>th</sup> also.

**CONSERVATION UPDATE:**

March 2019 usage figures are indicative of the reduced water use due to winter rainfall.

October 1, 2018 marked the start of a new water year. As of the date of this report, the rain gauge at Chittenden Pass has recorded 25.36 inches of precipitation this water year, with 2.20 inches falling so far in the month of May (May 21).

**PROJECTS:**

**1. Annexation Updates: Eilert and Cole Road**

With the Board’s multiple approvals at the last Board meeting, the Cole Road annexation continues to move forward. The Boundary Change Application for the San Benito Local Area Formation Commission (LAFCo) should be ready to be submitted in June.

The Eilert application was submitted May 2, 2019.

**2. Aromas Water District Rate Study**

The District Board of Directors will be given an update at this Board meeting.

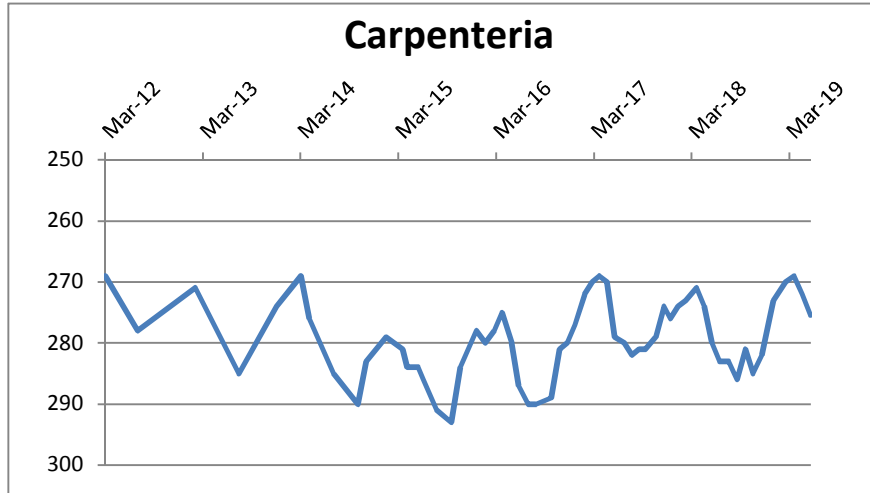
**3. Planning Efforts for the 60<sup>th</sup> Anniversary of Aromas Water District**

Planning efforts for the Aromas Water District 60<sup>th</sup> Anniversary celebration continue, and staff is working to develop an event worthy of the District’s history. Letters to Legislators are being written and will be sent out soon. The actual celebration is tentatively scheduled for the July 2019 Board of Directors’ meeting.

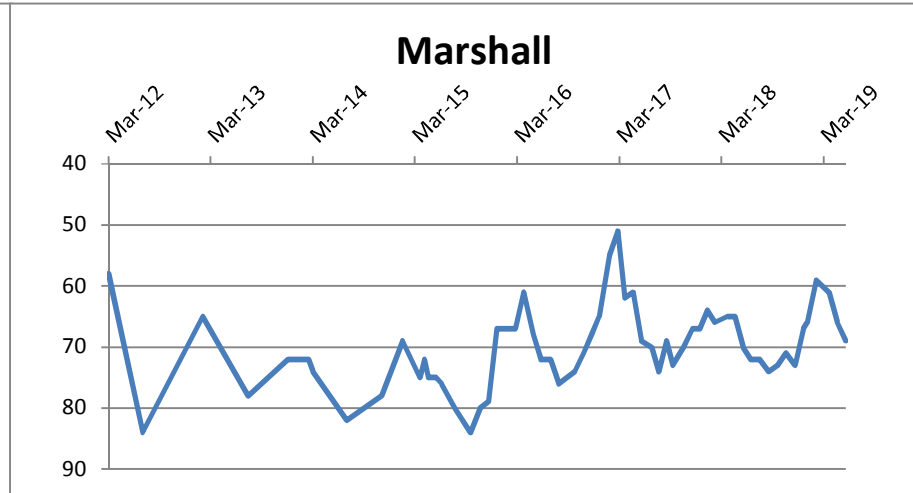
Robert Johnson  
General Manager  
May 21, 2019



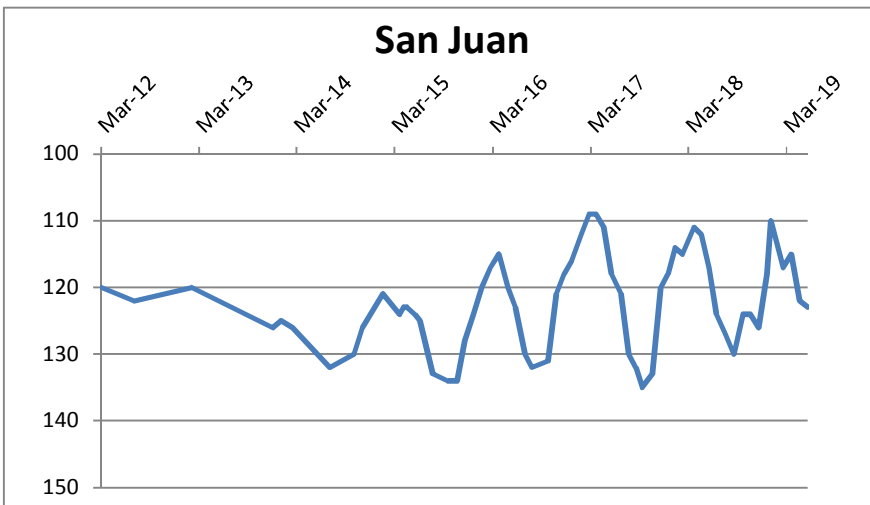
Well Water Level Monitoring  
 Depth to Water Measurements  
 Date: May 15, 2019



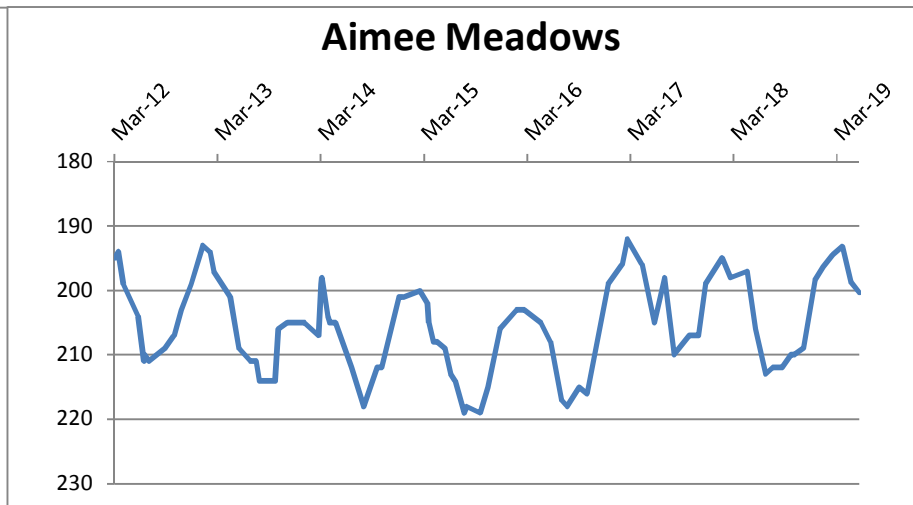
Carpenteria Well (production): Previous Read = 272 feet ; Current Read = 275 feet



Marshall Well (monitoring): Previous Read = 66 feet ; Current Read = 69 feet



San Juan Well (production): Previous Read = 122 feet ; Current Read = 123 feet



Aimee Meadows (monitoring): Previous Read = 199 feet ; Current Read = 200 feet

## CORRESPONDENCE LIST: 4/18/2019 - 5/20/2019

DATE	TYPE	TO	FROM	SUBJECT
4/18/19	E	R Johnson, AWD	L Strohm, Soquel Creek Water	IT Companies
4/22/19	E	L Coombes, AWD	SWRCB	EAR (DRINC Report) Submittal Acknowledgement
4/22/19	E	Sup. Phillips Office	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/22/19	E	L Hull, SBC	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/22/19	E	D. Zarate, NBS	L Coombes, AWD	Request 2019-20 Annual Tax Roll Levy - Oakridge
4/23/19	E	K Moon, Congressman Panetta's Aide	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/23/19	E	R Bickert, Sen. Monning's Office	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/25/19	E	RJ, LC, EG, AWD	A Beck, F&B	Interim Test of Controls Sample Selection - Audit
4/25/19	E	R Johnson, AWD	T. Pavletic, Municipal Finance Services	Capital Replacement Reserve Policy Initiation and CIP v0
4/25/19	E	L. Coombes, AWD	D Zarate, NBS	Delinquency Management Report for Oakridge
4/25/19	E	AWD	SBC LAFCo	Special Meeting Agenda - Board of Supervisors
4/26/19	E	R. Estrada, ASM, CA	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/26/19	E	E. Parker, ASM, CA	R Johnson, AWD	Request for Ceremonial Resolution for AWD's 60th
4/26/19	E	AWD	ACWA	Outreach Alert - Contact Legislators to Oppose Water Tax Language in Budget Trailer Bill AB 217
5/1/19	M	W. Nicholson, SBLAFCo	R Johnson, AWD	Boundary Change for AWD Eilert Annexation
5/1/19	E	AWD	AWWA	Public Affairs Advisory - Claim that CA Drinking Water could cause 15,000 cases of cancer
5/1/19	E	AWD	ACWA	ACWA Advisory - Environmental Working Group Releases Alarmist Report of CA Tap Water
5/2/19	E	AWD	ACWA	ACWA Region 5 - Call for Candidates
5/3/19	E	L. Coombes, AWD	M Young, SmartProcure	Public Records Request & Response
5/3/19	E	A Beck, F&B	L. Coombes, AWD	[Setting] Audit Dates
5/6/19	E	R Johnson, AWD	ACWA	ACWA Advisory - AB 217 Water Tax
5/6/19	E	R Johnson, AWD	T. Pavletic, Municipal Finance Services	Water Rate Charges Prelim. Draft (d1-v0) & Models (v02) & Word File (d1-v0)
5/7/19	E	SWRCB	R Johnson, AWD	Monthly Summary of Coliform Monitoring
5/7/19	E	SWRCB	R Johnson, AWD	TTHM & HAA5 Reporting Form for 2018

## CORRESPONDENCE LIST: 4/18/2019 - 5/20/2019

<b>DATE</b>	<b>TYPE</b>	<b>TO</b>	<b>FROM</b>	<b>SUBJECT</b>
5/7/19	E	SWRCB	R Johnson, AWD	Monthly Fe & Mn Field Test Results
5/7/19	E	B Nicholson, SBLAFCo	R Johnson, AWD	LAFCo process for Annexation into the AWD
5/10/19	E	R Johnson, AWD	B Nicholson, SBLAFCo	Notice of Receipt of Applic'n for Eilert Annexation
5/15/19	E	D. Zarate, NBS	Coombes/Girõn, AWD	Pay-Off Quote for APN 127-191-029-000
5/20/19	E	AWD	ACWA	Advisory - Region Election Process Underway for Term 2020-21
5/20/19	E	R Gaudoin, Pure Water Monterey	R Johnson, AWD	Notice of Supplemental Environmental Impact Report Preparation and Public Scoping Meeting & Responses
5/20/19	E	R Johnson, AWD	T. Pavletic, Municipal Finance Services	Water Rate Charges Prelim. Draft (d2-v0)& Models (v03) & Word File (d2-v0)

# Staff Report



To: Board of Directors  
Re: Item IX.A – Consider receiving the DRAFT Water Rate and Capacity Charge Study, and providing direction to Staff  
Date: May 20, 2019

## Summary / Discussion

The Aromas Water District (District) last performed a Water Rates and Capacity Charges Study (Rate Study) in 2014. The results of that effort provided an annual increase in District rates of roughly five-percent per year (the range is 3% to 6.7%). The financial review (audit) of the last fiscal year indicated that the District is still in a negative “net position”, meaning existing revenues are not adequate to meet capital reserve requirements as well as fund necessary capital improvement projects identified in the 2018 Strategic Plan.

The Board of Directors (BOD) hired Municipal Financial Services (MFS) to perform a Rate Study applicable to the coming five years. MFS performed the previous five-year Rate Study for the District, so they are familiar with the District and District finances, which added efficiency to the project.

At this meeting, Mr. Tom Pavletic from MFS will present the findings from his Water Rates and Water Capacity Charges report. Since the last BOD meeting, Mr. Pavletic has been working to complete his report. The rates being proposed remain tiered, however the tier breaks have moved from the current 900 cubic-feet (cf) and 3000 cf to 600 cf and 2000 cf respectively. These tier breaks are yet another change from the 2014 rate study, where the tier breaks were moved from 400 cf and 3600 cf to the current 900 cf and 3000 cf. Attachment A provides information regarding Single-Family Monthly Billing, Current and Projected, with the projected change to the bills in the right two columns.

Staff is looking for authorization to develop and send out a Proposition 218 notification, requiring 45 days before a public hearing, tentatively scheduled for July 23, with the location to be determined at this time.

## Staff Recommendation

Staff recommends the BOD: 1) Receive the report and 2) provide direction on moving forward with the Rate Study.

## Submitted by:

Robert Johnson  
General Manager

### Attachment A: Single Family Monthly Bills – Current and Projected

Monthly Water Use CCF gpd	Current Rates						Recommended Three-Tier Rates						Monthly Change		
	Tier 1	Tier 2	Tier 3	Use Fee	% x ¼inch Base Fee	Total Bill	Tier 1	Tier 2	Tier 3	Use Fee	% x ¼inch Base Fee	Total Bill	Total \$	Total %	
	0 - 8	9 - 30	>30				0 - 6	7 - 20	>20						
0	0	\$0.00			\$0.00	\$40.00	\$40.00	\$0.00			\$0.00	\$40.60	\$40.60	\$0.60	2%
1	25	\$3.90			\$3.90	\$40.00	\$43.90	\$3.97			\$3.97	\$40.60	\$44.57	\$0.67	2%
2	49	\$7.80			\$7.80	\$40.00	\$47.80	\$7.94			\$7.94	\$40.60	\$48.54	\$0.74	2%
3	74	\$11.70			\$11.70	\$40.00	\$51.70	\$11.91			\$11.91	\$40.60	\$52.51	\$0.81	2%
4	98	\$15.60			\$15.60	\$40.00	\$55.60	\$15.88			\$15.88	\$40.60	\$56.48	\$0.88	2%
5	123	\$19.50			\$19.50	\$40.00	\$59.50	\$19.85			\$19.85	\$40.60	\$60.45	\$0.95	2%
6	148	\$23.40			\$23.40	\$40.00	\$63.40	\$23.82			\$23.82	\$40.60	\$64.42	\$1.02	2%
7	172	\$27.30			\$27.30	\$40.00	\$67.30	\$23.82	\$6.70		\$30.52	\$40.60	\$71.12	\$3.82	6%
8	197	\$31.20			\$31.20	\$40.00	\$71.20	\$23.82	\$13.40		\$37.22	\$40.60	\$77.82	\$6.62	9%
9	221	\$31.20	\$6.54		\$37.74	\$40.00	\$77.74	\$23.82	\$20.10		\$43.92	\$40.60	\$84.52	\$6.78	9%
10	246	\$31.20	\$13.08		\$44.28	\$40.00	\$84.28	\$23.82	\$26.80		\$50.62	\$40.60	\$91.22	\$6.94	8%
11	271	\$31.20	\$19.62		\$50.82	\$40.00	\$90.82	\$23.82	\$33.50		\$57.32	\$40.60	\$97.92	\$7.10	8%
12	295	\$31.20	\$26.16		\$57.36	\$40.00	\$97.36	\$23.82	\$40.20		\$64.02	\$40.60	\$104.62	\$7.26	7%
13	320	\$31.20	\$32.70		\$63.90	\$40.00	\$103.90	\$23.82	\$46.90		\$70.72	\$40.60	\$111.32	\$7.42	7%
14	344	\$31.20	\$39.24		\$70.44	\$40.00	\$110.44	\$23.82	\$53.60		\$77.42	\$40.60	\$118.02	\$7.58	7%
15	369	\$31.20	\$45.78		\$76.98	\$40.00	\$116.98	\$23.82	\$60.30		\$84.12	\$40.60	\$124.72	\$7.74	7%
16	394	\$31.20	\$52.32		\$83.52	\$40.00	\$123.52	\$23.82	\$67.00		\$90.82	\$40.60	\$131.42	\$7.90	6%
17	418	\$31.20	\$58.86		\$90.06	\$40.00	\$130.06	\$23.82	\$73.70		\$97.52	\$40.60	\$138.12	\$8.06	6%
18	443	\$31.20	\$65.40		\$96.60	\$40.00	\$136.60	\$23.82	\$80.40		\$104.22	\$40.60	\$144.82	\$8.22	6%
19	467	\$31.20	\$71.94		\$103.14	\$40.00	\$143.14	\$23.82	\$87.10		\$110.92	\$40.60	\$151.52	\$8.38	6%
20	492	\$31.20	\$78.48		\$109.68	\$40.00	\$149.68	\$23.82	\$93.80		\$117.62	\$40.60	\$158.22	\$8.54	6%
21	516	\$31.20	\$85.02		\$116.22	\$40.00	\$156.22	\$23.82	\$93.80	\$9.10	\$126.72	\$40.60	\$167.32	\$11.10	7%
22	541	\$31.20	\$91.56		\$122.76	\$40.00	\$162.76	\$23.82	\$93.80	\$18.20	\$135.82	\$40.60	\$176.42	\$13.66	8%
23	566	\$31.20	\$98.10		\$129.30	\$40.00	\$169.30	\$23.82	\$93.80	\$27.30	\$144.92	\$40.60	\$185.52	\$16.22	10%
24	590	\$31.20	\$104.64		\$135.84	\$40.00	\$175.84	\$23.82	\$93.80	\$36.40	\$154.02	\$40.60	\$194.62	\$18.78	11%
25	615	\$31.20	\$111.18		\$142.38	\$40.00	\$182.38	\$23.82	\$93.80	\$45.50	\$163.12	\$40.60	\$203.72	\$21.34	12%
26	639	\$31.20	\$117.72		\$148.92	\$40.00	\$188.92	\$23.82	\$93.80	\$54.60	\$172.22	\$40.60	\$212.82	\$23.90	13%
27	664	\$31.20	\$124.26		\$155.46	\$40.00	\$195.46	\$23.82	\$93.80	\$63.70	\$181.32	\$40.60	\$221.92	\$26.46	14%
28	689	\$31.20	\$130.80		\$162.00	\$40.00	\$202.00	\$23.82	\$93.80	\$72.80	\$190.42	\$40.60	\$231.02	\$29.02	14%
29	713	\$31.20	\$137.34		\$168.54	\$40.00	\$208.54	\$23.82	\$93.80	\$81.90	\$199.52	\$40.60	\$240.12	\$31.58	15%
30	738	\$31.20	\$143.88		\$175.08	\$40.00	\$215.08	\$23.82	\$93.80	\$91.00	\$208.62	\$40.60	\$249.22	\$34.14	16%
31	762	\$31.20	\$143.88	\$9.09	\$184.17	\$40.00	\$224.17	\$23.82	\$93.80	\$100.10	\$217.72	\$40.60	\$258.32	\$34.15	15%
32	787	\$31.20	\$143.88	\$18.18	\$193.26	\$40.00	\$233.26	\$23.82	\$93.80	\$109.20	\$226.82	\$40.60	\$267.42	\$34.16	15%
33	812	\$31.20	\$143.88	\$27.27	\$202.35	\$40.00	\$242.35	\$23.82	\$93.80	\$118.30	\$235.92	\$40.60	\$276.52	\$34.17	14%
34	836	\$31.20	\$143.88	\$36.36	\$211.44	\$40.00	\$251.44	\$23.82	\$93.80	\$127.40	\$245.02	\$40.60	\$285.62	\$34.18	14%
35	861	\$31.20	\$143.88	\$45.45	\$220.53	\$40.00	\$260.53	\$23.82	\$93.80	\$136.50	\$254.12	\$40.60	\$294.72	\$34.19	13%
36	885	\$31.20	\$143.88	\$54.54	\$229.62	\$40.00	\$269.62	\$23.82	\$93.80	\$145.60	\$263.22	\$40.60	\$303.82	\$34.20	13%
37	910	\$31.20	\$143.88	\$63.63	\$238.71	\$40.00	\$278.71	\$23.82	\$93.80	\$154.70	\$272.32	\$40.60	\$312.92	\$34.21	12%
38	935	\$31.20	\$143.88	\$72.72	\$247.80	\$40.00	\$287.80	\$23.82	\$93.80	\$163.80	\$281.42	\$40.60	\$322.02	\$34.22	12%
39	959	\$31.20	\$143.88	\$81.81	\$256.89	\$40.00	\$296.89	\$23.82	\$93.80	\$172.90	\$290.52	\$40.60	\$331.12	\$34.23	12%
40	984	\$31.20	\$143.88	\$90.90	\$265.98	\$40.00	\$305.98	\$23.82	\$93.80	\$182.00	\$299.62	\$40.60	\$340.22	\$34.24	11%



DRAFT

## Water Rates and Water Capacity Charges Study

---

Prepared for  
Aromas Water District  
Aromas, California  
May 22, 2019

MUNICIPAL FINANCIAL SERVICES  
2960 Valley Basin Avenue, Henderson, Nevada 89052-3814

This Page Intentionally Blank.

# Table of Contents

List of Figures.....	iii
List of Tables .....	iv
List of Abbreviations .....	v
Executive Summary .....	ES-1
Overview of Study Findings.....	ES-1
Water System Description.....	ES-2
Impact of Updated Cost of Service Allocation Methodology.....	ES-2
Summary of Projected Revenues and Expenditures.....	ES-3
Summary of Projected Water Deliveries .....	ES-4
Recommended Water Fees .....	ES-5
Historical and Projected Single Family Monthly Bills .....	ES-6
Recommended Capacity Charges .....	ES-6
1. Introduction.....	1-1
1.1 Organization of the Report .....	1-1
1.2 Overview of Rate Setting Process .....	1-1
1.3 Rate-Making Objectives.....	1-3
1.4 Current Water Rates and Capacity Charges.....	1-3
2. Customer Characteristics.....	2-1
2.1 Historic Water Deliveries .....	2-1
2.2 Customer Water Use .....	2-3
2.3 Water Meter Equivalency Factors .....	2-3
2.4 Evaluation of Use by Tier and Customer Class.....	2-4
2.5 Current and Recommended Water Use Tier Ranges.....	2-5
2.5.1 Nonresidential Water Use Fees .....	2-5
2.5.2 Residential Water Use Fees .....	2-5
3. Development of Water Fees .....	3-1
3.1 Operating Revenues and Expenditures Summary .....	3-1
3.2 Financial Reserves Policy .....	3-1
3.3 Debt Service Coverage .....	3-1
3.4 Projected Capital Improvement Projects.....	3-2
3.5 Projected Operating Fund Cash Flow.....	3-3
3.6 Projected Capital Fund Cash Flow .....	3-4
3.7 Recommended Water Fees.....	3-6
3.8 Impact on FY20 Monthly Bills.....	3-7
3.8.1 Single Family Monthly Bills.....	3-7
3.8.2 Commercial/Institutional/Landscape Monthly Bills.....	3-8



- 3.9 Historic and Projected Monthly Bills ..... 3-9
  - 3.9.1 Historic and Projected Single Family Monthly Bills..... 3-9
  - 3.9.2 Historic and Projected Commercial/Institutional/Landscape Monthly Bills .....3-10
- 4. Development of Water Capacity Charges ..... 4-1
  - 4.1 Regulatory Requirements ..... 4-1
  - 4.2 Current Capacity Charges and Conceptual Approach..... 4-2
  - 4.3 Water System Valuation ..... 4-3
  - 4.4 Water System Capacity..... 4-4
  - 4.5 Unit Cost Peak Month Capacity..... 4-5
  - 4.6 Single Family Peak Month Use..... 4-5
  - 4.7 Capacity Charge for 5/8 x 3/4-inch Meter ..... 4-5
  - 4.8 Schedule of Capacity Charges..... 4-6
  - 4.9 Comparison of Current vs. Recommended Capacity Charges ..... 4-6
  - 4.10 Survey of Single Family Capacity Charges..... 4-7
- 5. Water Rates Survey ..... 5-1
- 6. Limitations ..... 6-1
- Appendix A: Historical Water Use Data ..... A
- Appendix B: Customer Characteristics Data ..... B
- Appendix C: Financial Reserves Policy ..... C
- Appendix D: Water Fees Development Tables ..... D
- Appendix E: Water Capacity Charges Development Tables ..... E

## List of Figures

Figure ES-1. Comparison of Historic and Projected Metered Water Deliveries .....	ES-4
Figure ES-2. Historic and Projected Single Family Monthly Water Bills.....	ES-6
Figure 1-1. Overview of Rate Setting Analytical Steps.....	1-1
Figure 2-1. Historic Water Deliveries, CCF.....	2-1
Figure 2-2. Historic and Projected Metered Water Use by Customer Class.....	2-2
Figure 2-3. 2018 Water Use by Customer Class and as a Percent of Total Use .....	2-3
Figure 2-4. 2018 Water Use by Tier and Customer Class and as a Percent of Total Use.....	2-4
Figure 2-5. 2018 Water Use for Single Family Customers.....	2-6
Figure 2-6. Single Family Water Use Profiles for and February 2018 and July 2018 .....	2-7
Figure 2-7. Current and Recommended Tier Ranges for the Residential Customer Classes .....	2-8
Figure 3-1. Projected Operating Fund Cash Flow .....	3-5
Figure 3-2. Projected Capital Fund Cash Flow .....	3-5
Figure 3-3. Historic and Projected Single Family Monthly Water Bills.....	3-9
Figure 3-4. Historic and Projected Commercial/Institutional/Landscape Monthly Water Bills.....	3-10
Figure 4-1. Capacity Charge Development Methodology .....	4-2
Figure 5-1. Survey of Single Family Monthly Water Bills .....	5-1

## List of Tables

Table ES-2. Summary of Projected Revenues and Expenditures .....	ES-3
Table ES-3. Recommended Water Fees .....	ES-5
Table ES-4. Recommended Water Capacity Charges .....	ES-6
Table 2-1. Historic Water Deliveries, CCF .....	2-1
Table 2-2. Water Lateral and Meter Equivalency Factors .....	2-3
Table 2-3. Current Water Use Fees and Tiers .....	2-5
Table 3-1. Planned Capital Improvement Projects .....	3-2
Table 3-2. Operating Fund Cash Flow .....	3-3
Table 3-3. Capital Fund Cash Flow .....	3-4
Table 3-4. Recommended Water Fees .....	3-6
Table 3-5. Current and Projected FY20 Single Family Monthly Water Bills .....	3-7
Table 3-6. Current and Projected FY20 Commercial/Institutional/Landscape Monthly Water Bills.....	3-8
Table 4-1. Summary of Fixed Assets Valuation.....	4-3
Table 4-2. Valuation of Water System .....	4-4
Table 4-3. System Peak Month Production Capacity.....	4-4
Table 4-4. Unit Cost Peak Month Capacity .....	4-5
Table 4-5. Single Family Peak Month Use.....	4-5
Table 4-6. Capacity Charge for 5/8 x 3/4-inch Meter .....	4-5
Table 4-7. Equivalency Factors and Capacity Charges.....	4-6
Table 4-8. Current and Recommended Capacity Charges .....	4-6
Table 4-9. Survey of Single Family Capacity Charges.....	4-7
Table 5-1. Water Rates Survey.....	5-2

## List of Abbreviations

---

AWWA	American Water Works Association
cf	cubic feet (equal to ~7.48 gallons)
CCF	Hundred Cubic Feet (equal to ~748.1 gallons)
CIP	Capital Improvement Program
COS	Cost of Service
District	Aromas Water District
DWR	Department of Water Resources
FY	Fiscal Year (July 1 to June 30)
gpd	gallons per day
mg	million gallons
mgd	million gallons per day
O&M	Operation and maintenance
PVWMA	Pajaro Valley Water Management Agency

This Page Intentionally Blank.

# Executive Summary

The Aromas Water District (District), in conjunction with Municipal Financial Services, has analyzed the adequacy of revenues to meet projected expenditures of the water enterprise fund to determine whether revenues will be adequate to cover operating and maintenance costs as well as needed capital costs while supporting debt service obligations and meeting target reserve levels. Water fees, which generate approximately 93% of water fund revenues, were evaluated for the six-year period Fiscal Year 2019 – 2020 (FY20) through FY25.<sup>1</sup> It is recommended that the District adopt fees for a five-year period (FY20 – FY24). Capacity charges for new connections to the water system were also updated. Charges for FY20, and an index appropriate for annual escalation of the charges, are recommended.

## Overview of Study Findings

The study evaluated the District’s projected capital and operating expenditures, water sales and growth in accounts for the next six years.

For the five-year rate planning period, capital requirements, including capital reserves, are projected to be approximately \$1,884,000 and operating expenditures to be approximately \$5,551,000 for a total of \$7,435,000. Revenues (not including assessments) are projected to be approximately \$7,300,000. The difference between revenues and expenditures will be funded from the projected FY19 ending cash balance of approximately \$1,110,000.

Water rates developed in 2014 were based on water deliveries of approximately 122,300 CCF for FY20 (one CCF equals approximately 748 gallons). Updated water delivery projections for FY20 are approximately 125,000 CCF – an increase of approximately 2.2 percent over the amount projected in 2014. Water delivery projections for FY24 (the end of the five-year planning period) are projected to decline by approximately 11.3 percent from the new FY20 projection to 113,600 CCF.

No new water connections are projected during FY19 through FY24. Although there may actually be new connections, the numbers will be so few that they will not materially influence the study findings.

The recommended water use fee structure has a single, uniform fee for all nonresidential use and a three-tier structure for residential use that reflects recent and projected reductions in water use.

---

<sup>1</sup> This percentage excludes assessment district revenues from rate payers which are dedicated to bond payments for assets that benefit only those rate payers.



The recommended cost allocation structure has two major differences from the current structure. First, the recommended water user fees for nonresidential customer classes (Commercial, Institutional and Irrigation) and for Bulk water use (through construction meters) are the same uniform rate based on the average cost of water use for those customer classes. Currently, the uniform water use fee for Bulk water is approximately six percent less than the uniform water use fee for nonresidential customer classes.

Second, the tier breaks for Single Family and Multi Family customer classes are changed to recover approximately the same amount of revenue from water use in each tier as was projected in the current rate structure.

## Summary of Projected Revenues and Expenditures

The District has three main types of expenditures – operating, capital and debt service. The District has two, primary sources of revenues – charges for services, which yield approximately 93 percent of revenues, and tax receipts, which yield approximately 6 percent of revenues.

Projected expenditures between FY20 and FY 24 total approximately \$7,435,000. The majority of expenditures (\$4,925,000) are for operating expenses. The remaining \$2,510,000 are for debt service, capital projects and capital reserves.

The projected expenditures should enable the District to accomplish the following:

- Meet or exceed the minimum operating reserve target of 60 days of operating expenses
- Service the Municipal Finance Corporation loan with maturity dates in 2021 and 2030
- Expend \$1,334,000 for capital projects during FY20 – FY24
- Direct \$550,000 to capital reserves during FY20 – FY24

FY19 budgeted revenues and expenditures and projections for FY20 – FY25 are shown in the table below.

Table ES-2. Summary of Projected Revenues and Expenditures								
Item	Budget	Projected Five-Year Rate Plan					Projected	Projected
	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY20 - FY24
<b>Revenues</b>								
Operating	1,212,400	1,222,500	1,293,700	1,363,200	1,433,000	1,503,800	1,534,100	6,816,200
Non-Operating	85,000	85,000	85,000	85,000	85,000	85,000	85,000	425,000
Capacity Charges	13,300	12,000	12,000	12,000	12,000	12,000	12,000	60,000
<b>Total</b>	<b>1,310,700</b>	<b>1,319,500</b>	<b>1,390,700</b>	<b>1,460,200</b>	<b>1,530,000</b>	<b>1,600,800</b>	<b>1,631,100</b>	<b>7,301,200</b>
Annual Change		8,800	71,200	69,500	69,800	70,800	30,300	
% Annual change		1%	5%	5%	5%	5%	2%	
<b>Expenses</b>								
Operating	897,000	927,700	955,500	984,200	1,013,800	1,044,200	1,075,500	4,925,400
Debt Service	147,300	147,300	147,300	110,400	110,400	110,400	110,400	625,800
Capital Projects	153,000	174,000	405,000	405,000	275,000	75,000	650,000	1,334,000
Capital Emergency Reserve	0	80,000	80,000	80,000	80,000	80,000	80,000	400,000
Replacement Reserve	0	0	0	50,000	50,000	50,000	50,000	150,000
<b>Total</b>	<b>1,197,300</b>	<b>1,329,000</b>	<b>1,587,800</b>	<b>1,629,600</b>	<b>1,529,200</b>	<b>1,359,600</b>	<b>1,965,900</b>	<b>7,435,200</b>
Annual Change		131,700	258,800	41,800	(100,400)	(169,600)	606,300	
% Annual change		11%	19%	3%	-6%	-11%	45%	



## Summary of Projected Water Deliveries

For any water utility, accurately projecting the amount of water deliveries (sales) is of paramount importance. Projections of the amount of water deliveries are used to develop water use fees, project revenues from water use fees and project customer bills.

Water use projections are based mainly upon the net impact of two variables: 1) change in use due to changes in the number of metered accounts; and 2) decrease in use due to conservation. Water use projections are based on a percent reduction from water use for 2018.

Reductions are projected to be approximately 2.8 percent for 2019 and approximately 2.4 percent per year during 2020 - 2025. No new water connections are expected from 2019 - 2025. Although there may be new connections, the numbers will be so few that they will not materially influence the study findings.

Historic and projected metered water deliveries, by customer class, are shown in the figure below for 2010 - 2025.

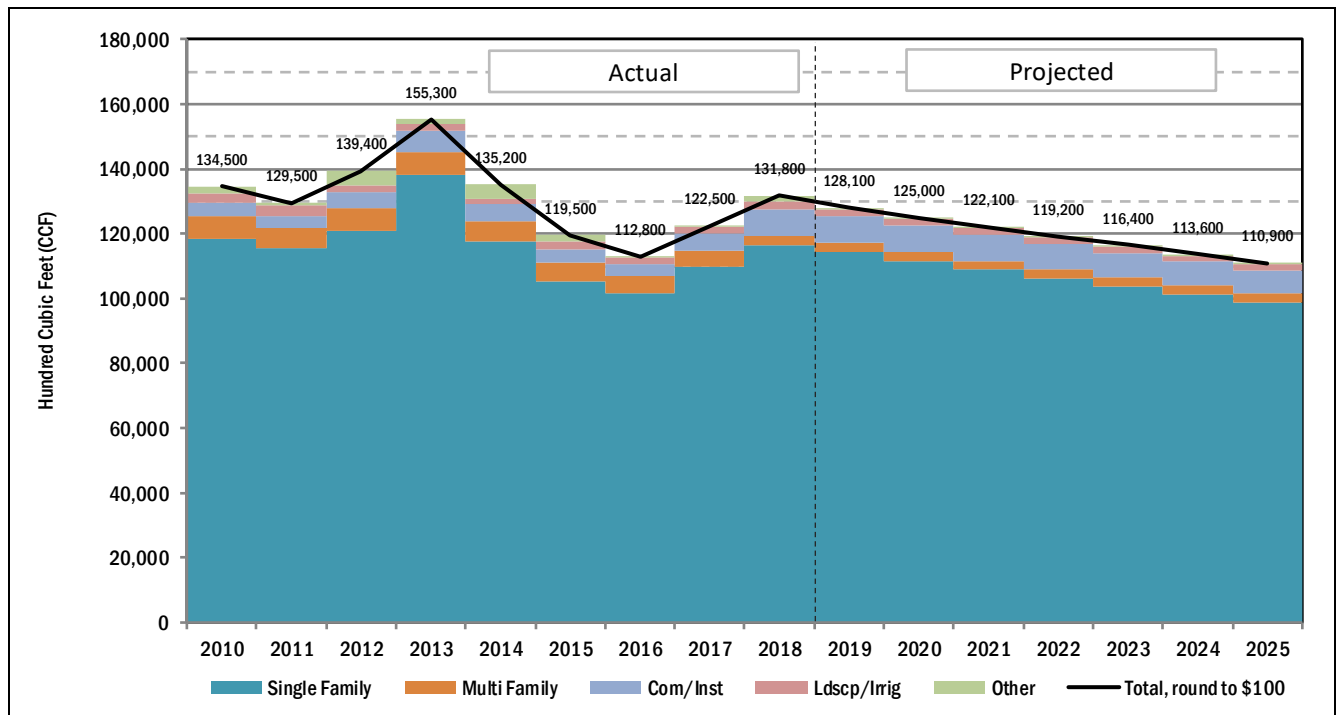


Figure ES-1. Comparison of Historic and Projected Metered Water Deliveries

## Recommended Water Fees

Recommended water fees to be listed in the Proposition 218 Notice of Public Hearing are shown in the table below.

Table ES-3. Recommended Water Fees												
Fee Category	Current FY19	Projected Five-Year Rate Plan						Annual Percent Increases				
		FY20	FY21	FY22	FY23	FY24	FY20	FY21	FY22	FY23	FY24	
	<i>effective &gt;</i>	<i>1-Jul-18</i>	<i>1-Nov-19</i>	<i>1-Jul-20</i>	<i>1-Jul-21</i>	<i>1-Jul-22</i>	<i>1-Jul-23</i>					
<b>Base Rate Fees, \$/month</b>												
<b>Meter Size</b>	<b><i>Meter Ratio</i></b>											
5/8 x 3/4-inch	1.0	\$40.00	\$40.60	\$43.00	\$45.30	\$47.60	\$50.00	2%	6%	5%	5%	5%
1-inch	2.5	\$96	\$96	\$101	\$107	\$112	\$118	0%	5%	6%	5%	5%
1½-inch	5.0	\$189	\$188	\$198	\$209	\$220	\$231	-1%	5%	6%	5%	5%
2-inch	8.0	\$301	\$298	\$315	\$332	\$349	\$366	-1%	6%	5%	5%	5%
3-inch	17.5	\$655	\$647	\$684	\$721	\$758	\$795	-1%	6%	5%	5%	5%
4-inch	30.0	\$1,121	\$1,106	\$1,170	\$1,233	\$1,297	\$1,360	-1%	6%	5%	5%	5%
6-inch	62.5	\$2,330	\$2,300	\$2,430	\$2,560	\$2,700	\$2,830	-1%	6%	5%	5%	5%
Bulk Service		\$96	\$96	\$101	\$107	\$112	\$118	0%	5%	6%	5%	5%
<b>Water Use Fees, \$/CCF</b>												
Bulk Service		\$5.72	\$5.83	\$6.31	\$6.82	\$7.34	\$7.89	2%	8%	8%	8%	7%
Com/Inst/Ldsp		\$6.07	\$6.06	\$6.57	\$7.09	\$7.64	\$8.22	0%	8%	8%	8%	8%
<b>Single/Multi Family</b>												
Tier 1		\$3.90	\$3.97	\$4.30	\$4.64	\$5.00	\$5.37	2%	8%	8%	8%	7%
Tier 2		\$6.54	\$6.70	\$7.26	\$7.84	\$8.44	\$9.06	2%	8%	8%	8%	7%
Tier 3		\$9.09	\$9.10	\$9.86	\$10.64	\$11.46	\$12.31	0%	8%	8%	8%	7%
<b>Water Use Tier Breaks, CCF</b>												
Single/Multi Family		<u>Current</u>	<u>Projected</u>	<u>Projected</u>	<u>Projected</u>	<u>Projected</u>	<u>Projected</u>					
Tier 1		0 - 8	0 - 6	0 - 6	0 - 6	0 - 6	0 - 6					
Tier 2		9 - 30	7 - 20	7 - 20	7 - 20	7 - 20	7 - 20					
Tier 3		>30	>20	>20	>20	>20	>20					

## Historical and Projected Single Family Monthly Bills

Historical and projected Single Family monthly bills are shown in the figure below. Monthly bills do not include the PVWMA surcharge.

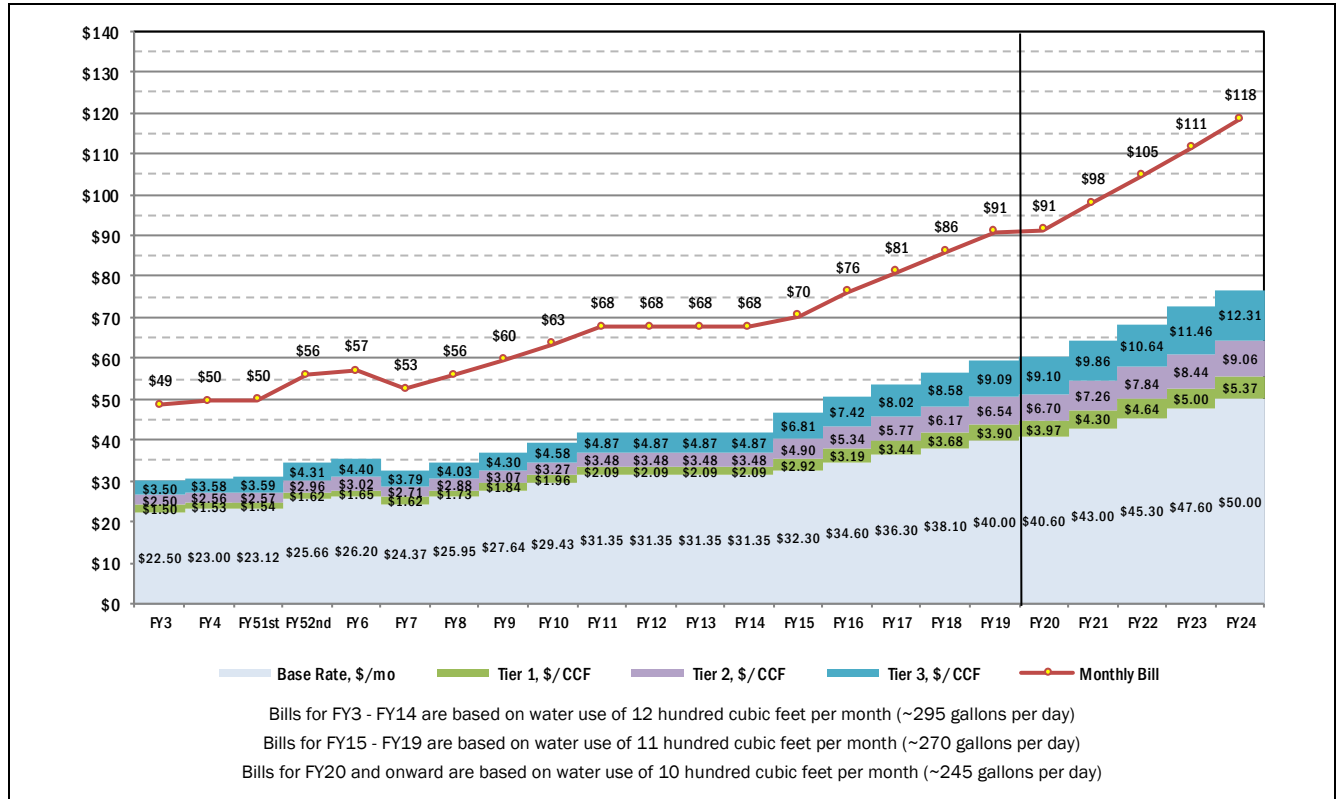


Figure ES-2. Historic and Projected Single Family Monthly Water Bills

## Recommended Capacity Charges

Recommended water capacity charges for 2020 are shown in the table below. It is recommended that the District escalate capacity charges using the *Engineering News Record 20-City Construction Cost Index*.

Table ES-4. Recommended Water Capacity Charges		
Agency	Meter Size	Charge
Watsonville	¾-inch	\$3,823
Pajaro/Sunny Mesa Community Services District	⅝ and ¾-inch	\$6,970
San Juan Bautista	⅝, ¾ or 1-inch	\$8,545
San Lorenzo Valley Water District	⅝ and ¾-inch	\$10,577
Sunnyslope Water District	⅝, ¾ or 1-inch	\$10,975
Aromas Water District, Current	⅝ x ¾-inch	\$13,302
<b>Aromas Water District, Recommended</b>	<b>⅝ x ¾-inch</b>	<b>\$13,940</b>

## Section 1

# Introduction

The District's water rates are intended to recover revenues sufficient to adequately fund water system operations, maintenance, and capital replacement expenditures, while keeping rates as low as possible and maintaining a prudent level of reserves. Capacity charges are a charge to pay for a prorated "buy-in" to facilities in existence at the time a charge is imposed.

## 1.1 Organization of the Report

This report is divided into six sections. This introduction provides an overview of the study objectives, rate setting process and the sources of data used in preparation of the report.

Section 2 discusses customer characteristics.

Section 3 describes the development of water rates.

Section 4 describes the development of capacity charges.

Section 5 describes the impact of changes in rates and charges on existing and new customers.

Section 6 describes the limitations of the study document.

## 1.2 Overview of Rate Setting Process

Rate studies classically have three categories of technical analysis – the development of revenue to be recovered 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.

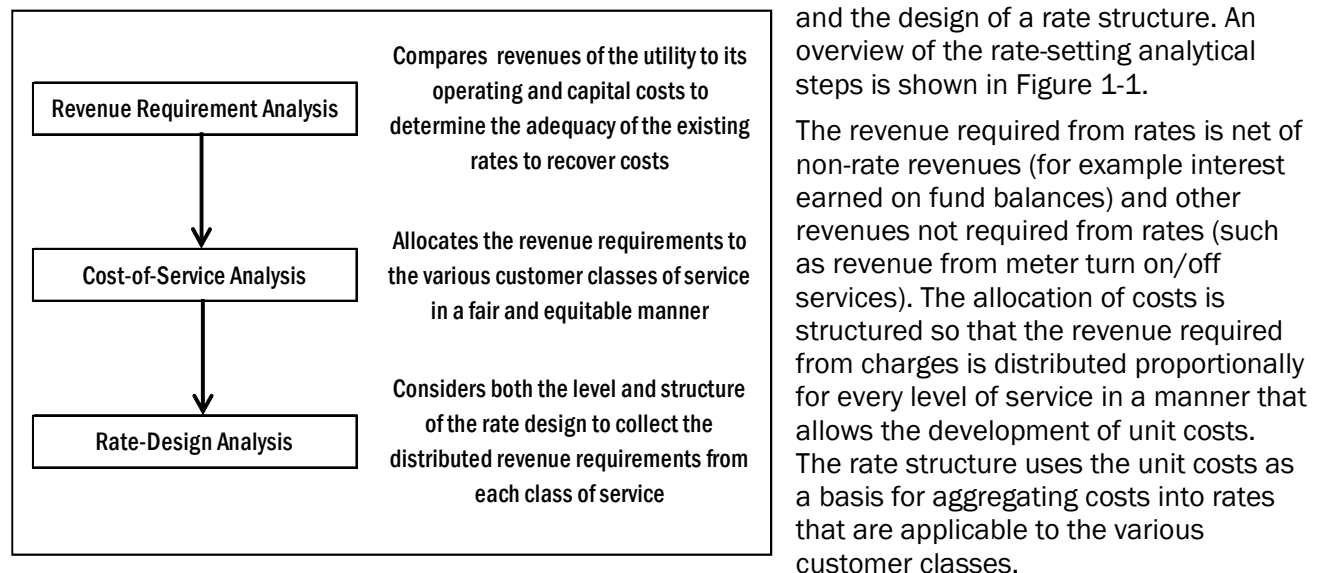


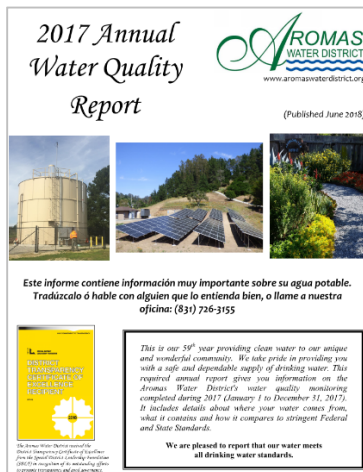
Figure 1-1. Overview of Rate Setting Analytical Steps

Information and data for the development of water rates and capacity charges include a number of documents provided by the District. The list of documents, and the key information and data from each used in this study, are summarized below.

### ***Aromas Water District Revised 2018-19 Annual Budget***

Prior to the start of FY19, the District adopted its annual budget. At its January 2019 Board meeting, the District Board adopted a mid-year budget revision. The revised budget is used in this study as the basis for projections of expenses and non-rate revenues for subsequent fiscal years.

### ***Aromas Water District 2017 Annual Water Quality Report***



This report provides information on the Aromas Water District water quality monitoring done during the year 2017. It includes details about where the District's water comes from, what it contains, and how it compares to State Standards. This report shows the results of testing for the period of January 1 - December 31, 2017.

The report also includes a message from the General Manager, statistics about the source of water supply and average water use, and information about water meters and outdoor water conservation tips.

### ***Aromas Water District Financial Statements and Supplementary Information 2018***

The Financial Statements provide discussion and analysis of the District financial performance and financial activities for the year ended June 30, 2018. The District presents a balance sheet; statements of revenues, expenses and changes in net position; and statements of cash flows.

### ***Aromas Water District Financial Reserves Policy***

During January 2014, the District passed Resolution 2014-1 adopting a Financial Reserves Policy. The purpose of the policy is to ensure the stability of the mission, programs, employment, and ongoing operations of the organization and to provide a secure source of internal funds for organization priorities such as building repair and improvement, capital projects, emergencies, program opportunity, and capacity building. The policy describes three types of reserves: Operating Reserve, Capital Emergency Reserve and Capital Funding Reserve. The policy states that the reserve funds will be funded with surplus unrestricted operating funds.

### ***Customer Billing Data***

The District provided a data base listing monthly water use for each metered account, for the time period February 2018 through January 2019 (12 months). Each account record had descriptive information of the account's meter size and customer class.

### ***Test Requirements for New, Rebuilt, and Repaired Cold-Water Meters***

The American Water Works Association publishes a manual, *M6 Water Meters - Selection, Installation, Testing and Maintenance*, (2012 Fifth Edition), that lists test requirements for new, rebuilt, and repaired cold-water meters. The test requirements are expressed in terms of a maximum flow rate for meters of various sized and types (displacement meters, Class I turbine meters, propeller meters, etc.).

## 1.3 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 and capital expenditures and maintain adequate reserves.
- **Revenue stability.** Recover revenue from base and commodity charges that will cover all expenditures.
- **Administrative effort.** Enable implementation and ongoing administration, including monitoring and updating.
- **Affordability.** Be affordable while maintaining the sound financial position of the enterprise.
- **Customer understanding.** 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.

## 1.4 Current Water Rates and Capacity Charges

Ordinance 72 sets forth Rules, Regulations and Charges for Water Service applicable to all water delivered by the District. Definitions of the various rates from Ordinance 72 that are evaluated as part of this study are included in this section along with the current values for each set of rates.

**Base Rate Fee.** A “base rate” is a fixed monthly fee that meets a portion of the estimated fixed cost to provide service to any existing meter, including but not limited to inspection, maintenance, accounting, meter reading and billing services for that water connection and for the provision of fire suppression capacity to that connection location. A base rate fee is based primarily on the number and size of meters installed.

**Water Use Fee.** A “water use charge” is a fee imposed to pay for water actually used by the property in question. A water use charge is a commodity charge based primarily on the amount consumed. Note that the Equivalent Meter Ratio is used to expand the range of each tier to compensate for greater water use as meter size increases.

**Bulk Service Fees.** The term “bulk service” means water supplies obtained from an Aromas Water District-designated bulk water station, or through a hydrant meter. All other service shall be deemed a “point of service” customer where water is delivered through a permanent and stationary meter. No “point of service” delivery is deemed a “bulk service” unless approved as an exception to this provision by the Board of Directors.

**Pajaro Valley Water Management Agency Surcharge.** The term “Pajaro Valley Water Management Agency surcharge” refers to a fee or charge imposed as a separate line item and additional charge to pay, pro-rata, for fees imposed by the Pajaro Valley Water Management Agency as they relate to each water service. The current Pajaro Valley Water Management Agency surcharge is \$231 per acre foot of water production by the District – approximately \$0.00530 per cf (cubic foot). The District charges, in turn, charges \$0.000297 per cf of water use to account for water production that does not produce revenue. The surcharge amount is not evaluated as part of this study. The surcharge may appear on the notice of public hearing along with the other rates and charges evaluated as part of this study.

**Capacity Charge.** A “capacity charge” means a charge to pay for a prorata “buy-in” for facilities in existence at the time a charge is imposed. The capacity charge is based upon the meter size of the new connection. Any additional expense incurred directly as a result of a new customer connecting to the District system (e.g., main extensions, booster systems, etc.) is the responsibility of the new customer and is in addition to the capacity charge.

Water installation fees are not evaluated as part of this study. The term “water installation fee” refers to a charge to reimburse the District for all actual and necessary costs incurred, in the sole discretion of the District, in order to install a specific connection, including but not limited to labor and material expenses required to acquire and install pipes, mains, pumps and storage facilities and rights of way intended to serve that connection or set of new connections. The “water installation fee” includes administrative, legal, and contractor and sub-contractor oversight costs, and any other costs that may be associated with extending service to a new connection.

## Section 2

# Customer Characteristics

The purpose of this section is to summarize the number of connections to the water system and the amount of water delivered (metered customer water use). The data used in this section comes from well production reports, the District’s billing invoices and the American Water Works Association.

### 2.1 Historic Water Deliveries

Historic water deliveries for the 13 years ending in 2018 are shown in the table below. The historic data illustrates the unpredictable variation in deliveries that should be expected. For example, water deliveries declined approximately 20 percent from 2008 to 2011 before increasing to a peak in 2013 and then declining approximately 27 percent from 2013 to 2016. The final decline was based on the State’s requirement to reduce water use because of the drought.

Table 2-1. Historic Water Deliveries, CCF													
All Values in CCF	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total	150,348	159,931	161,014	152,689	134,541	129,458	139,376	155,278	135,170	119,494	112,768	122,521	131,791
Single Family	133,330	141,782	143,086	135,242	118,440	115,696	121,110	138,270	117,533	105,140	101,503	110,003	116,198
Multi Family	8,174	8,159	8,891	8,443	7,167	5,891	6,801	6,806	6,334	5,874	5,495	4,682	2,963
Com/Inst	3,645	5,534	5,669	4,984	4,018	3,829	5,006	6,482	5,255	4,174	3,815	5,325	8,398
Ldsp/Irrig	2,441	3,820	2,855	1,729	2,848	3,131	1,957	2,318	1,671	2,222	1,890	2,007	2,316
Other	306	636	513	2,291	2,068	911	4,502	1,402	4,377	2,084	65	504	1,916

The figure below shows the tabular data from Table 2-1.

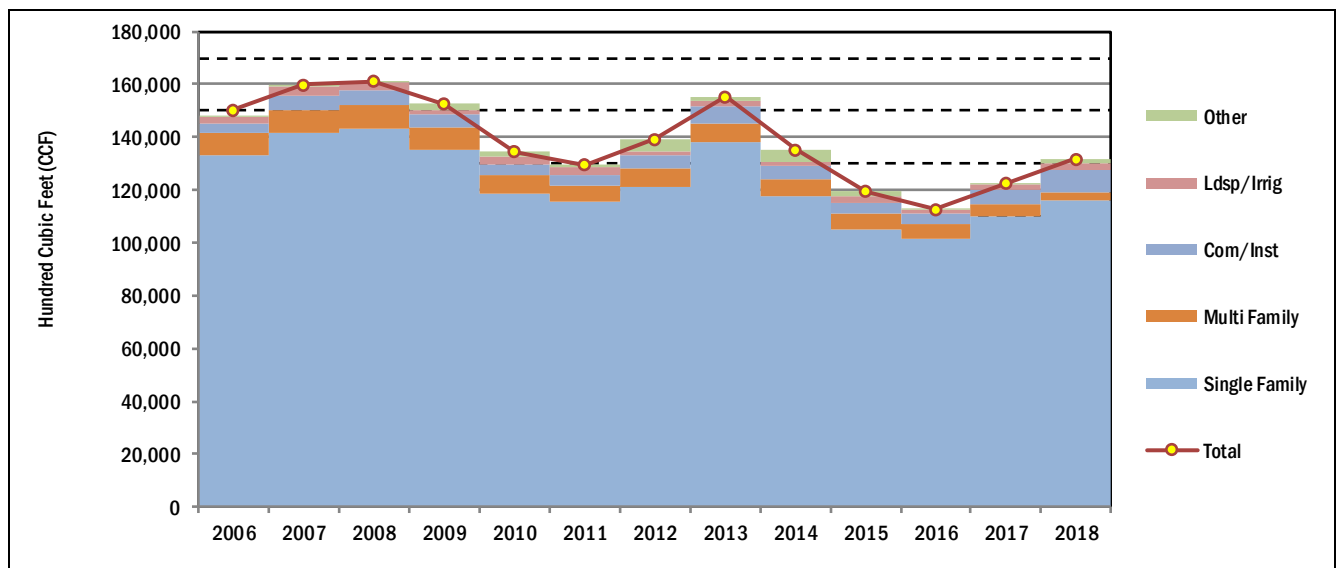


Figure 2-1. Historic Water Deliveries, CCF



Metered water delivery projections for 2019 and onward are required to develop water user fees, estimate revenues from user fees and estimate average customer bills. Water use projections are based mainly upon the decrease in use due to conservation. Water use projections are based on a percent reduction from water use for 2018.

Reductions are projected to be approximately 2.8 percent for 2019 and approximately 2.4 percent per year during 2020 - 2025. No new water connections are expected from 2019 - 2025. Although there may be new connections, the numbers will be so few that they will not materially influence study findings.

Historic and projected metered water deliveries, by customer class, is shown in the figure below for 2010 - 2025.

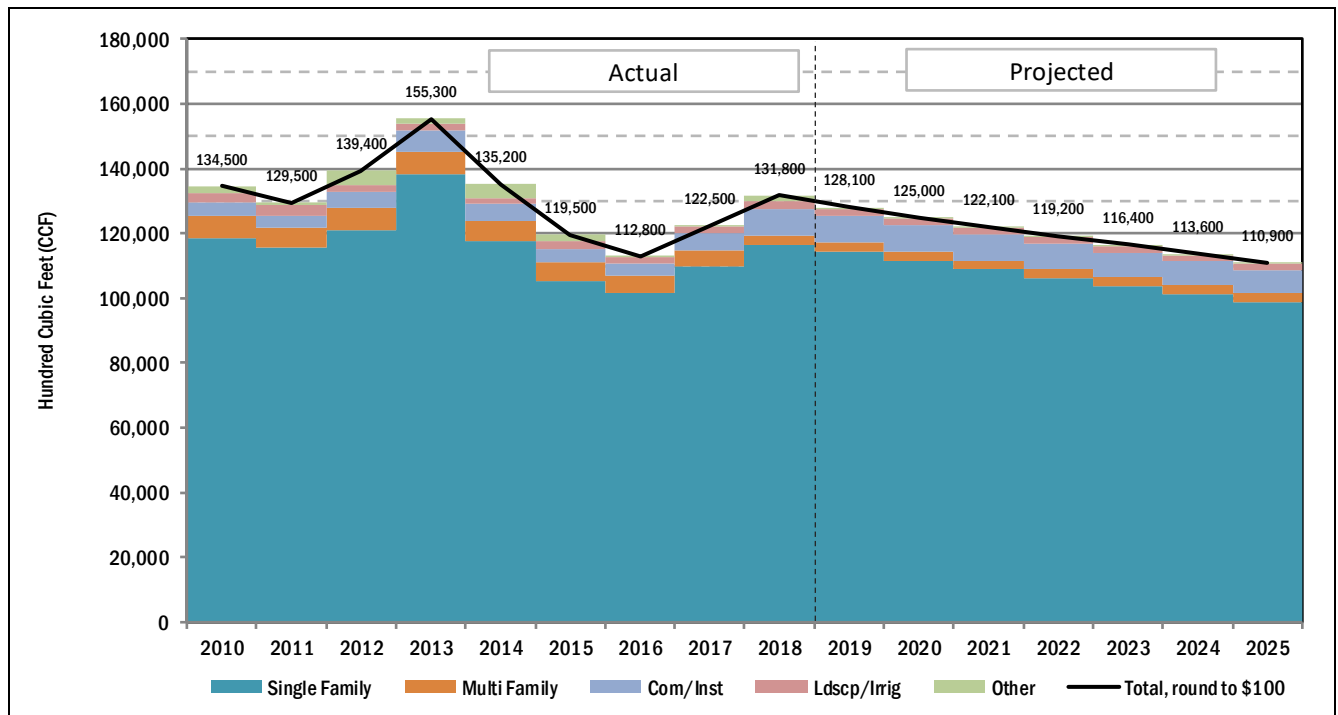


Figure 2-2. Historic and Projected Metered Water Use by Customer Class

## 2.2 Customer Water Use

Average metered water deliveries by customer class and month for 2018 are shown in Figure 2-3 in units of CCF. The chart on the left hand of the figure shows usage in CCF; the chart on the right hand of the figure shows usage for each customer class as a percent of total usage in each month.

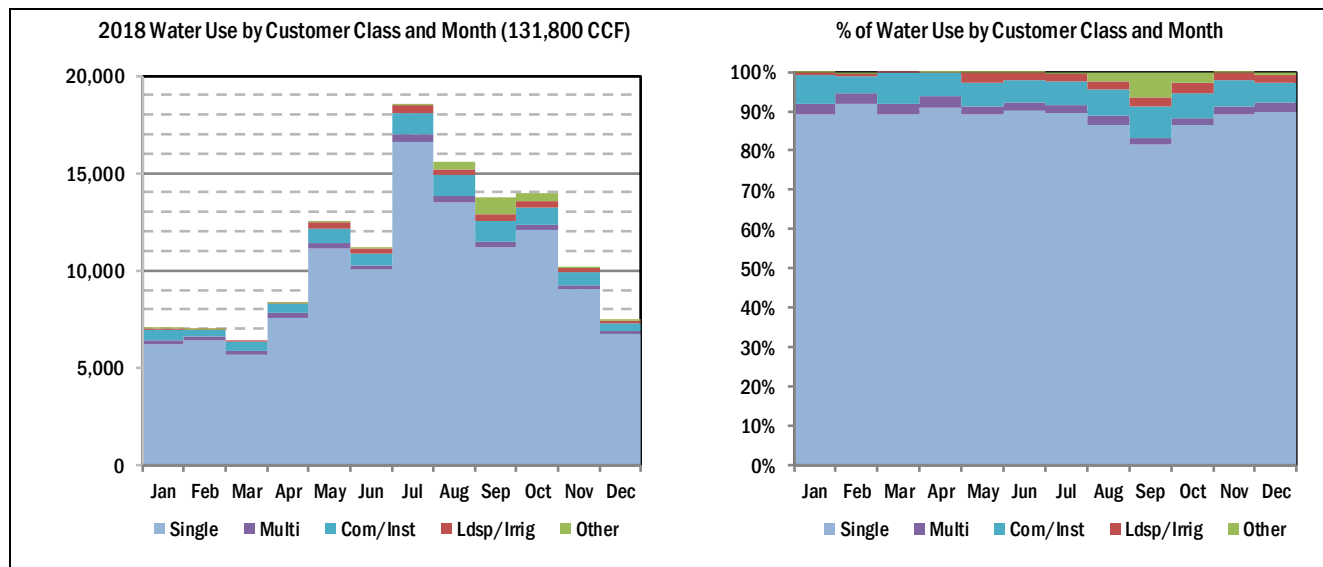


Figure 2-3. 2018 Water Use by Customer Class and as a Percent of Total Use

## 2.3 Water Meter Equivalency Factors

Base Rate fees for meter sizes greater than 5/8 x 3/4-inch are based, in part, on an "equivalency factor" that relates the design maximum flow capacity of a meter (in gallons per minute, gpm) to that of a standard 5/8 x 3/4-inch meter. The Maximum Flow Rates for 5/8 x 3/4-inch and 1-inch meters are based on the manufacturer's Specification Sheet for the most prevalent meter make and model installed by the District. Flow capacities for larger meters in use by the District are published by the American Water Works Association (AWWA). The water meter maximum flow capacity assignments used in this study and the calculation of equivalency factors are shown in the table below.

Table 2-2. Water Lateral and Meter Equivalency Factors				
Meter Size	Meter Type	AWWA M6 5th Edition (2012)		
		AWWA Class	Maximum Flow Rate	5/8 x 3/4-inch Equiv. Factor
5/8 x 3/4-inch	Multi-Jet	C708	20 gpm	1.0
1.00-inch	Multi-Jet	C708	50 gpm	2.5
1.50-inch	Class I Turbine	C701	100 gpm	5.0
2.00-inch	Class I Turbine	C701	160 gpm	8.0
3.00-inch	Class I Turbine	C701	350 gpm	17.5
4.00-inch	Class I Turbine	C701	600 gpm	30.0
6.00-inch	Class I Turbine	C701	1,250 gpm	62.5

## 2.4 Evaluation of Use by Tier and Customer Class

Water use by tier and customer class for 2018 are shown below in Figure 2-4. The chart on the left side of the figure shows usage in CCF; the chart on the right side of the figure shows usage for each customer class as a percent of total usage. The percent of total system-wide usage is 53% in Tier 1, 32% in Tier 2 and 15% in Tier 3. NOTE THAT ONLY SINGLE FAMILY AND MULTIPLE FAMILY USE IS BILLED AT DIFFERENT RATES; WATER USE FOR THE OTHER CUSTOMER CLASSES IS BILLED AT A UNIFORM RATE. Water use by tiers for all customer classes is shown to demonstrate why tiered rates are applied to the Single Family and Multiple Family customer classes and uniform rates are applied to other customer classes.

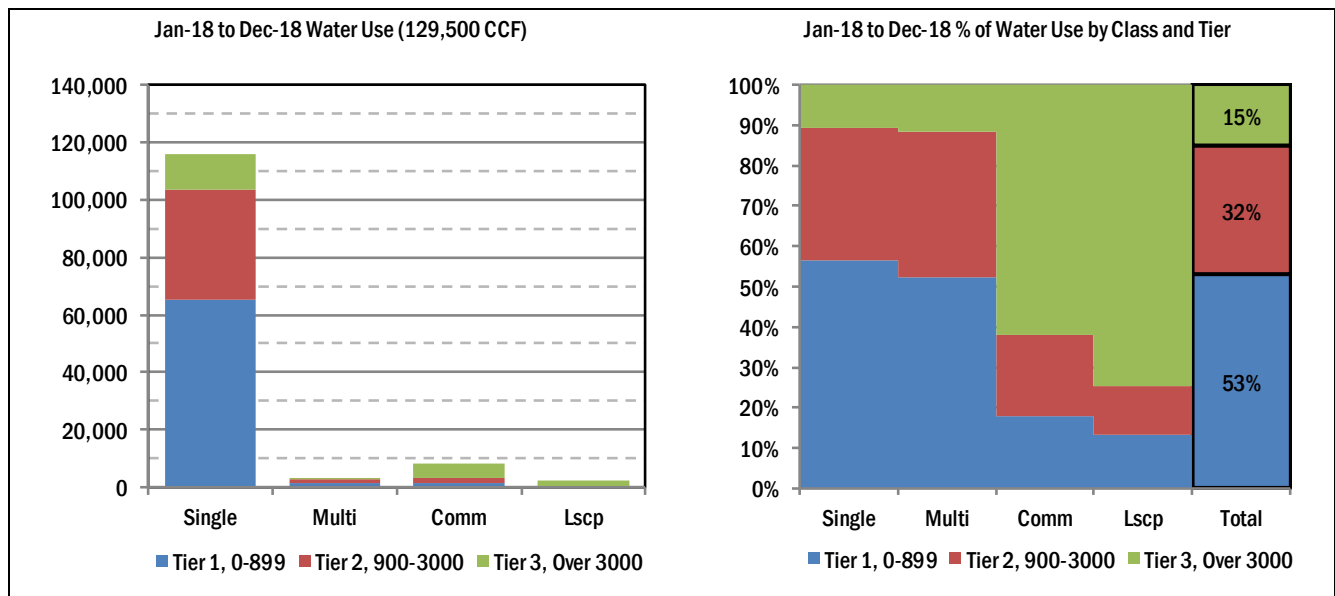


Figure 2-4. 2018 Water Use by Tier and Customer Class and as a Percent of Total Use

Note the differences in Tier 3 water use between the residential (Single Family and Multiple Family) customer classes (approximately 11 percent), the Commercial/Institutional customer class (approximately 62 percent), and the Landscape customer class (approximately 75 percent).

## 2.5 Current and Recommended Water Use Tier Ranges

Currently, there are three tiers of water use, each with its own fee, applicable to the Single Family and Multiple Family customer classes. All other customer classes pay a uniform rate for all levels of water use. Current water use fees and tiers are shown in the table below.

Customer Class	Rate, \$/cf	Use Range, cf
<b>Single and Multiple Family</b>		
Tier 1	\$0.0390	0 - 8
Tier 2	\$0.0654	9- 30
Tier 3	\$0.0909	> 30
All Other Classes	\$0.0607	all use
Bulk Meters	\$0.0572	all use

cf = cubic foot, equal to approximately 7.48 gallons

### 2.5.1 Nonresidential Water Use Fees

The District has three nonresidential customer classes:

- Commercial/Institutional
- Irrigation (Landscape)
- Other
- Bulk (hydrant meters)

There are 26 Commercial/Institutional accounts and eight Landscape Irrigation accounts. Except for six connections, all meter sizes are  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch. Water use by these accounts is approximately eight percent of total water use. Water deliveries to the "Other" customer class are metered but not billed (and do not yield any revenue).

A single fee for all levels of water use is recommended for Commercial/Institutional, Landscape Irrigation and Bulk customer classes. A single fee for nonresidential customer classes is common. Nonresidential customer classes are mostly businesses or institutions with water demand that is dictated by their customers or service demands. A single fee for all levels of water use, complimented with conservation in response to the level of the fee, should result in equity with residential customers in terms of cost allocation between the two groups of customers.

### 2.5.2 Residential Water Use Fees

The District has two residential customer classes:

- Single Family
- Multi Family

The current tier ranges were developed in 2014, prior to mandatory conservation requirements during the extreme drought, and may not reflect the current needs of the District in terms of allocation of costs within the residential customer class, revenue stability, and conservation goals. Recommended tier ranges for residential customers were developed to maximize each of the competing needs. Recommended tier water use fees for residential customers are developed in a later section.

**Tier 1 Range.** Average, winter water use during 2018 was used to identify a level of water use which could be used as the upper end of the Tier 1 range. Winter water use is the average water per account use during February and March (two months). As shown in the figure below, winter water use during 2018 was approximately 6,050 CCF equal to approximately 6.6 CCF per month per Single Family connection. Average winter water use per Single Family connection in 2017 was 5.9 CCF per month and in 2016 it was 6.1 CCF per month.

The recommended Tier 1 range is 0 – 6 CCF per month for residential connections (which includes usage up to 600 cf). In 2018, Tier 1 water use based on the recommended tier break would include approximately 48 percent of all Single Family water use.

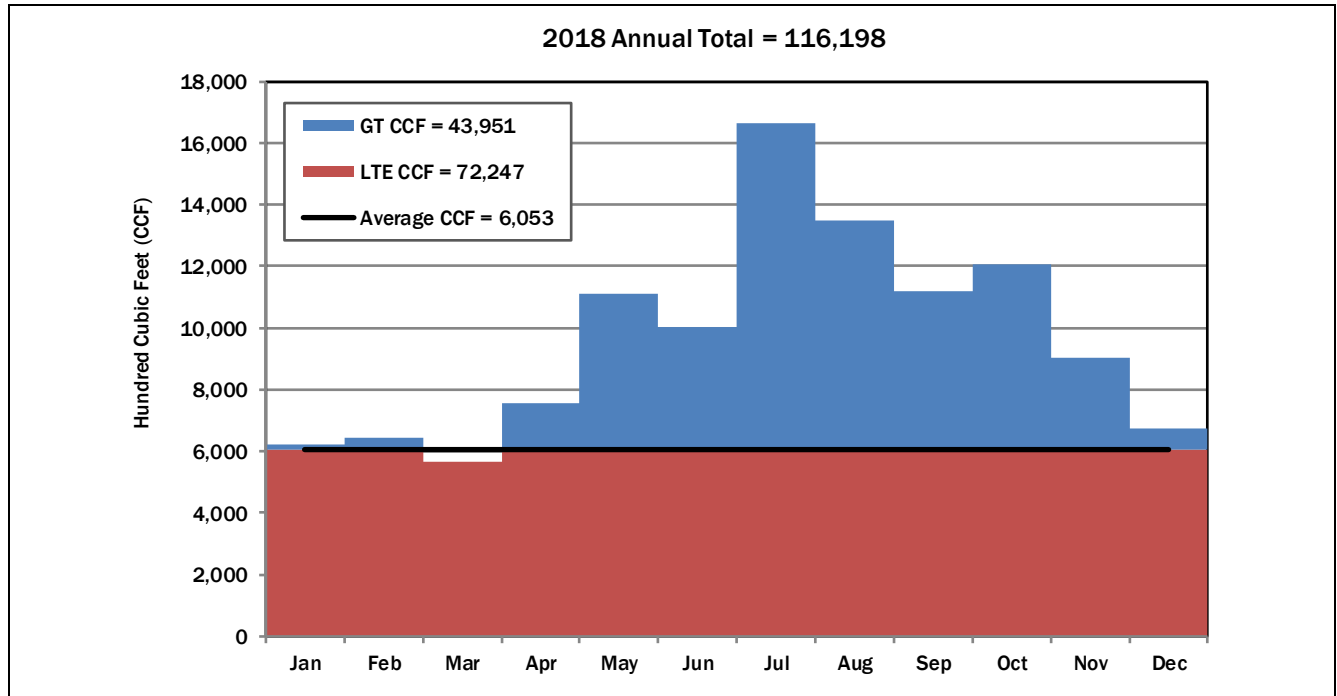
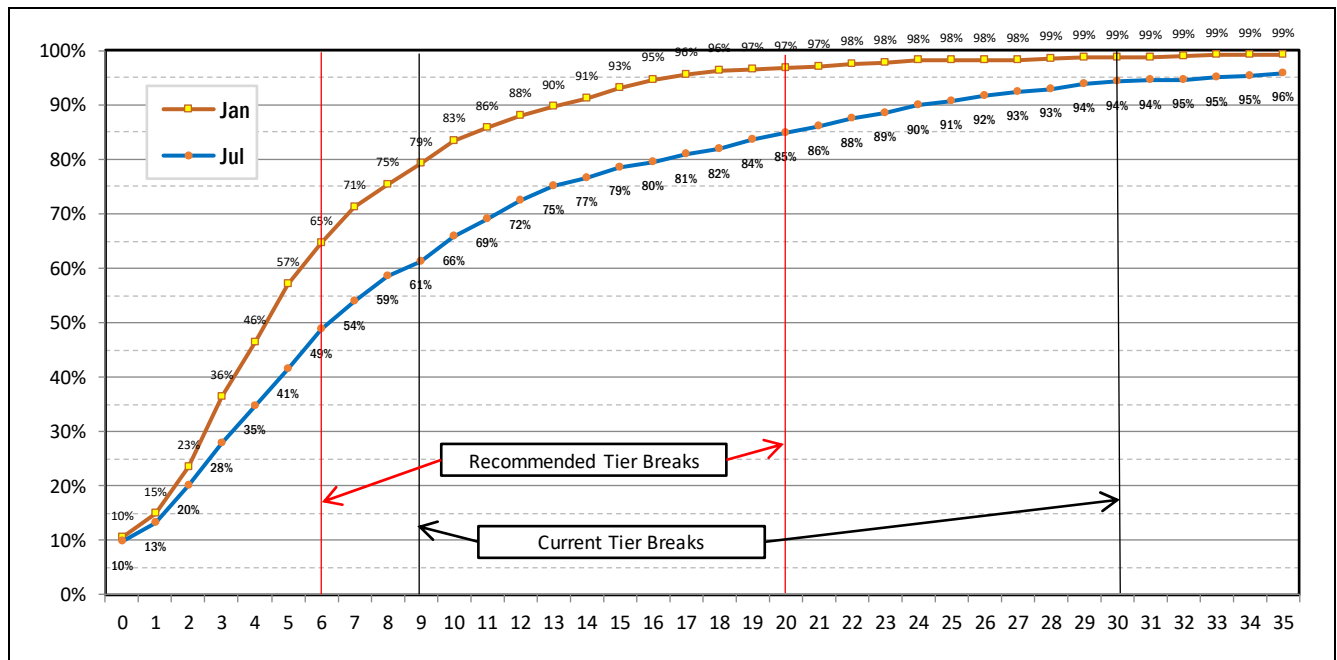


Figure 2-5. 2018 Water Use for Single Family Customers

**Tier 2 Range.** With a recommended Tier 1 range of 0 – 6 CCF for Single Family connections, the next consideration was the top range for Tier 2. Obviously, the choice for the top range of Tier 2 would simultaneously define the range for Tier 3 (all water use above Tier 2). The current Tier 2 range is 9 – 30 CCF.

The recommended Tier 2 range was developed with a consideration of water use during the months of highest and lowest use. For the District, these months are January (lowest water use) and July (highest water use). As shown in the figure below, approximately 97 percent of all Single Family water bills for January have water use less than or equal to 20 CCF. In July, approximately 85 percent of all Single Family water bills have water use less than or equal to 20 CCF. The recommended Tier 2 range is 6 – 20 CCF.



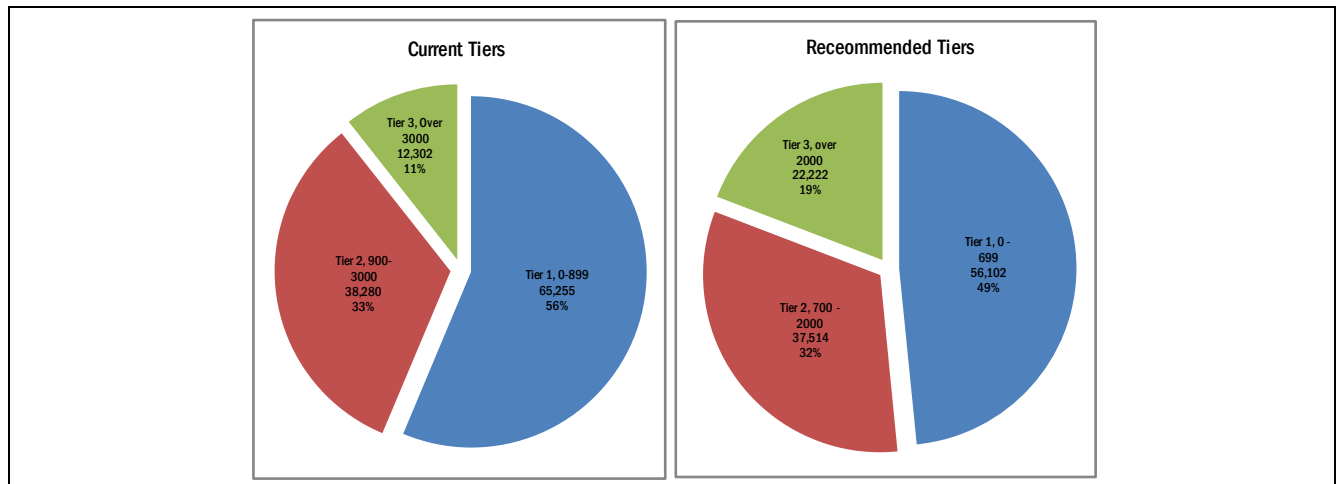
**Figure 2-6. Single Family Water Use Profiles for and February 2018 and July 2018**

**Tier 3 Range.** As noted in the previous section, the choice for the top range of Tier 2 would simultaneously define the range for Tier 3 (all water use above Tier 2). The current Tier 3 range, all use above 30 CCF, includes very little water use – for 2018, approximately 19 percent of all water use. The recommended Tier 3 range is all use above 20 CCF.

**Tier Water Use Summary.** Water Use in the current and recommended tier ranges for residential customer classes is summarized in the figure below. The summary is based on 12 months of water use for the 2018.

The recommended tier ranges should maintain stability of revenue from water use fees in the residential customer class with approximately 81 percent of revenues coming from water use in the lower two tiers.

Water use within the residential customer class is expected to decrease from approximately 10 CCF per month per account to approximately 9 CCF per month per account over a five-year period. Note that even with current water use fees, conservation of one unit of water (1 CCF = 748 gallons = 25 gallons per day) in the Tier 2 range reduces a monthly bill by \$6.54 (about eight percent of an average monthly bill).



**Figure 2-7. Current and Recommended Tier Ranges for the Residential Customer Classes**

## Section 3

# Development of Water Fees

Revenues, expenditures, reserve levels, debt service coverage, and the development of water fees for FY15 – FY 21 is summarized in this section.

### 3.1 Operating Revenues and Expenditures Summary

The District has three main types of expenditures – operating, capital and debt service. The District has two, primary sources of revenues – charges for services, which yield approximately 93 percent of revenues, and tax receipts, which yield approximately 6 percent of revenues.

Projected expenditures between FY20 and FY 24 total approximately \$7,435,000. The majority of expenditures (\$4,925,000) are for operating expenses. The remaining \$2,510,000 are for debt service, capital projects and capital reserves. The projected expenditures should enable the District to accomplish the following:

- Meet or exceed the minimum operating reserve target of 60 days of operating expenses
- Service the Municipal Finance Corporation loan with maturity dates in 2021 and 2030
- Expend \$1,334,000 for capital projects during FY20 – FY24
- Direct \$550,000 to capital reserves during FY20 – FY24

### 3.2 Financial Reserves Policy

During January 2014, the District passed Resolution 2014-1 adopting a Financial Reserves Policy. The purpose of the policy is to ensure the stability of the mission, programs, employment, and ongoing operations of the organization and to provide a secure source of internal funds for District priorities such as building repair and improvement, capital projects, emergencies, program opportunity, and capacity building. The policy describes three types of reserves: Operating Reserve, Capital Emergency Reserve and Capital Funding Reserve. The policy states that the reserve funds will be funded with surplus unrestricted operating funds.

### 3.3 Debt Service Coverage

In 2015, the District refinanced its loan obtained in 2011 from Santa Barbara Bank & Trust, with the Municipal Finance Corporation to refinance \$1,323,721 on a tax-exempt basis and borrowed \$201,966 on a taxable basis. The proceeds of the additional funds were used to acquire and install a solar energy project at the Carpenteria well site. The interest rates on the tax-exempt note and the taxable note are stated at 2.75% and 3.00%, respectively, and mature in 2021 and 2030, respectively. The terms of the notes call for semi-annual debt service payment of principal and interest payable on May 1st and November 1st of each year. The notes are secured by a pledge of and lien on the net revenues of the District's water system.



### 3.4 Projected Capital Improvement Projects

The District plans to continue rehabilitation and repair of its water system. The current (FY19) budget allocates \$153,000 for capital expenditures. Annual projected capital expenditures are shown in the table below for two, five-year periods – FY20 – FY24 and FY25 – FY29. Actual expenditures will vary from projections due to actual construction costs that are greater or less than projected, differences in actual timing and completion of projects and the need to address unplanned projects.

Table 3-1. Planned Capital Improvement Projects														
All Values in \$1,000														
Project Type	Projected Five-Year Rate Plan						Next Five-Year Rate Plan (FY25-FY29)					5-Years	5-Years	10-Years
	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY20-24	FY25-29	FY20-29
Distribution Pipe		25	25	25	25	25	50	50	75	75	75	125	325	450
Transmission Pipe		25	25	25	25	25	50	50	75	75	75	125	325	450
Operations HQ Improvements	15	8										8	0	8
Operations Shop (Marshall Yd)	8		150	150								300	0	300
Pressure Reducing Station - Aimee			150									150	0	150
Pressure Reducing Station - School				150								150	0	150
Booster Station Improvements	10									75		0	75	75
Ballantree Tanks Replacement					150							150	0	150
Tank Improvements	5								75	75		0	150	150
New Water Supply Well							500	500				0	1,000	1,000
Solar/Battery Backup	20	41										41	0	41
XiO Telemetry		30	30	30								90	0	90
Service Meters	25	25	25	25	25	25	25	25	25	25		125	100	225
Vehicles	50				50			50				50	50	100
Rate Study/Financial Plan	20						25					0	25	25
Other		20						20				20	20	40
<b>Total</b>	<b>153</b>	<b>174</b>	<b>405</b>	<b>405</b>	<b>275</b>	<b>75</b>	<b>650</b>	<b>695</b>	<b>250</b>	<b>250</b>	<b>225</b>	<b>1,334</b>	<b>2,070</b>	<b>3,404</b>
All Values in \$1,000														
Summary	Projected Five-Year Rate Plan						Next Five-Year Rate Plan (FY25-FY29)					5-Years	5-Years	10-Years
	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY20-24	FY25-29	FY20-29
Pipe	0	50	50	50	50	50	100	100	150	150	150	250	650	900
Operation Yard/Shop	23	8	150	150	0	0	0	0	0	0	0	308	0	308
Pressure Reducing Stations	10	0	150	150	0	0	0	0	0	0	75	300	75	375
Tanks	5	0	0	0	150	0	0	0	75	75	0	150	150	300
Wells	0	0	0	0	0	0	500	500	0	0	0	0	1,000	1,000
Meters/Telemetry	45	96	55	55	25	25	25	25	25	25	0	256	100	356
Other	70	20	0	0	50	0	25	70	0	0	0	70	95	165
<b>Total</b>	<b>153</b>	<b>174</b>	<b>405</b>	<b>405</b>	<b>275</b>	<b>75</b>	<b>650</b>	<b>695</b>	<b>250</b>	<b>250</b>	<b>225</b>	<b>1,334</b>	<b>2,070</b>	<b>3,404</b>

### 3.5 Projected Operating Fund Cash Flow

Revenues, expenditures, beginning and ending fund balance and target reserve levels are shown in the table below.

Item	Budget FY19	Projected Fiscal Year					Estimated FY25	Five-Years FY20 - FY24
		FY20	FY21	FY22	FY23	FY24		
<b>Operating Revenues</b>								
Charges for Services								
Base Rate	483,700	490,500	519,400	547,200	575,000	604,000	616,100	2,736,100
Water Use	726,600	729,400	771,600	813,200	855,200	896,900	915,100	4,066,300
Total Charges for Services	1,210,300	1,219,900	1,291,000	1,360,400	1,430,200	1,500,900	1,531,200	6,802,400
Bulk Water	2,100	2,600	2,700	2,800	2,800	2,900	2,900	13,800
Total Operating Revenues	1,212,400	1,222,500	1,293,700	1,363,200	1,433,000	1,503,800	1,534,100	6,816,200
<b>Operating Expenses</b>								
Administrative & General	76,100	78,400	80,800	83,200	85,700	88,200	90,900	416,300
Debt Payments	147,300	147,300	147,300	110,400	110,400	110,400	110,400	625,800
Communications	11,200	15,200	15,700	16,200	16,700	17,200	17,700	81,000
Payroll	439,100	452,300	465,900	479,800	494,200	509,100	524,300	2,401,300
Employee Costs	170,800	176,000	181,200	186,700	192,300	198,100	204,000	934,300
Office	22,000	22,700	23,300	24,000	24,800	25,500	26,300	120,300
Operations	106,500	109,700	113,000	116,400	119,900	123,500	127,200	582,500
Power	71,300	73,400	75,600	77,900	80,200	82,600	85,100	389,700
Total Operating Expenses	1,044,300	1,075,000	1,102,800	1,094,600	1,124,200	1,154,600	1,185,900	5,551,200
Operating Income (Loss)	168,100	147,500	190,900	268,600	308,800	349,200	348,200	1,265,000
<b>Non-Operating Revenues (Expenses)</b>								
Tax Receipts	66,000	66,000	66,000	66,000	66,000	66,000	66,000	330,000
Miscellaneous	2,000	2,000	2,000	2,000	2,000	2,000	2,000	10,000
Interest	17,000	17,000	17,000	17,000	17,000	17,000	17,000	85,000
Grants	0	0	0	0	0	0	0	0
Total Non-Operating Revenues	85,000	85,000	85,000	85,000	85,000	85,000	85,000	425,000
Net Income (Loss) Before Transfers	253,100	232,500	275,900	353,600	393,800	434,200	433,200	1,690,000
<b>Transfer to Reserves</b>								
Capital Projects	153,000	174,000	405,000	405,000	275,000	75,000	650,000	1,334,000
Capital Emergency Reserve	0	80,000	80,000	80,000	80,000	80,000	80,000	400,000
Replacement Reserve	0	0	0	50,000	50,000	50,000	50,000	150,000
Total Transfers to Reserves	153,000	254,000	485,000	535,000	405,000	205,000	780,000	1,884,000
Increase (Decrease) in Net Position	100,100	(21,500)	(209,100)	(181,400)	(11,200)	229,200	(346,800)	(194,000)
Beginning Cash Balance, July 1	[1] 1,010,316	1,110,416	1,088,916	879,816	698,416	687,216	916,416	
Ending Balance, June 30	1,110,416	1,088,916	879,816	698,416	687,216	916,416	569,616	
<b>Target Fund Balance</b>								
Minimum Target Ending Balance	171,700	176,700	181,300	179,900	184,800	189,800	194,900	
Maximum Target Ending Balance	515,000	530,100	543,800	539,800	554,400	569,400	584,800	
Amount Over (Under) Minimum Target	938,700	912,200	698,500	518,500	502,400	726,600	374,700	
Amount Over (Under) Maximum Target	595,400	558,800	336,000	158,600	132,800	347,000	(15,200)	
<b>Debt Service Coverage</b>								
Income	1,310,700	1,319,500	1,390,700	1,460,200	1,530,000	1,600,800	1,631,100	
Expenses (less debt service)	897,000	927,700	955,500	984,200	1,013,800	1,044,200	1,075,500	
Net Income	413,700	391,800	435,200	476,000	516,200	556,600	555,600	
Debt Service Principal & Interest	147,300	147,300	147,300	110,400	110,400	110,400	110,400	
Coverage Ratio	2.81	2.66	2.95	4.31	4.68	5.04	5.03	
Amount Over (Under) Coverage	192,750	170,850	214,250	310,400	350,600	391,000	390,000	

Notes:

[1] The FY19 value is from the District Annual Financial Report, June 30, 2018, p. 7, cash and cash equivalents. Values for FY20 and onward are calculated.

[2] The District's Financial Reserves Policy targets a minimum unrestricted cash fund balance of 60 days to a maximum of 180 days of annual operation expenses.

### 3.6 Projected Capital Fund Cash Flow

Revenues, expenditures, beginning and ending fund balance and target reserve levels are shown in the table below.

Table 3-3. Capital Fund Cash Flow								
Item	Budget FY19	Projected Fiscal Year					Estimated FY25	Five-Years FY20 - FY24
		FY20	FY21	FY22	FY23	FY24		
<b>Capital Revenues</b>								
Capacity Charges [1]	13,300	12,000	12,000	12,000	12,000	12,000	12,000	60,000
<b>Capital Expenses</b>								
Annual capital projects	153,000	174,000	405,000	405,000	275,000	75,000	650,000	1,334,000
Total Capital Expenses	153,000	174,000	405,000	405,000	275,000	75,000	650,000	1,334,000
<b>Transfer from Operating</b>								
Capital Projects	153,000	174,000	405,000	405,000	275,000	75,000	650,000	1,334,000
Capital Emergency Reserve	0	80,000	80,000	80,000	80,000	80,000	80,000	400,000
Replacement Reserve	0	0	0	50,000	50,000	50,000	50,000	150,000
<b>Total Transfers from Operating</b>	153,000	254,000	485,000	535,000	405,000	205,000	780,000	1,884,000
<b>Increase (Decrease) in Net Position</b>	13,300	92,000	92,000	142,000	142,000	142,000	142,000	610,000
<b>Beginning Cash Balance, July 1</b> [2]	0	13,300	105,300	197,300	339,300	481,300	623,300	
<b>Ending Balance, June 30</b>	13,300	105,300	197,300	339,300	481,300	623,300	765,300	
<b>Target Balance</b> [3]								
Capital Projects Expense/ Reserve	330,700	330,700	330,700	330,700	330,700	330,700	330,700	
Capital Emergency Reserve								
2% of Capital Assets	620,000	638,600	657,800	677,500	697,800	718,700	740,300	
Risk Based	200,000	206,000	212,200	218,600	225,200	232,000	239,000	
<b>Total Target Balance</b>								
2% of Capital Assets	950,700	969,300	988,500	1,008,200	1,028,500	1,049,400	1,071,000	
Risk Based	530,700	536,700	542,900	549,300	555,900	562,700	569,700	
<b>Amount Over (Under) Target</b>								
2% of Capital Assets	(606,700)	(533,300)	(460,500)	(338,200)	(216,500)	(95,400)	25,000	
Risk Based	(186,700)	(100,700)	(14,900)	120,700	256,100	391,300	526,300	

Notes:

[1] Capacity Charges do not include Assessment District revenues.

[2] The FY19 value is zero to reflect the establishment of this fund.

[3] The District's Financial Reserves Policy for Capital Emergency is a minimum of 2% of total assets or a risk-based amount. The estimated replacement cost of the District's capital assets is \$31,000,000 in 2019 dollars. The value for FY20 onward is escalated by 3 percent per year.

Figures showing operating and capital funds cash flow are shown below.

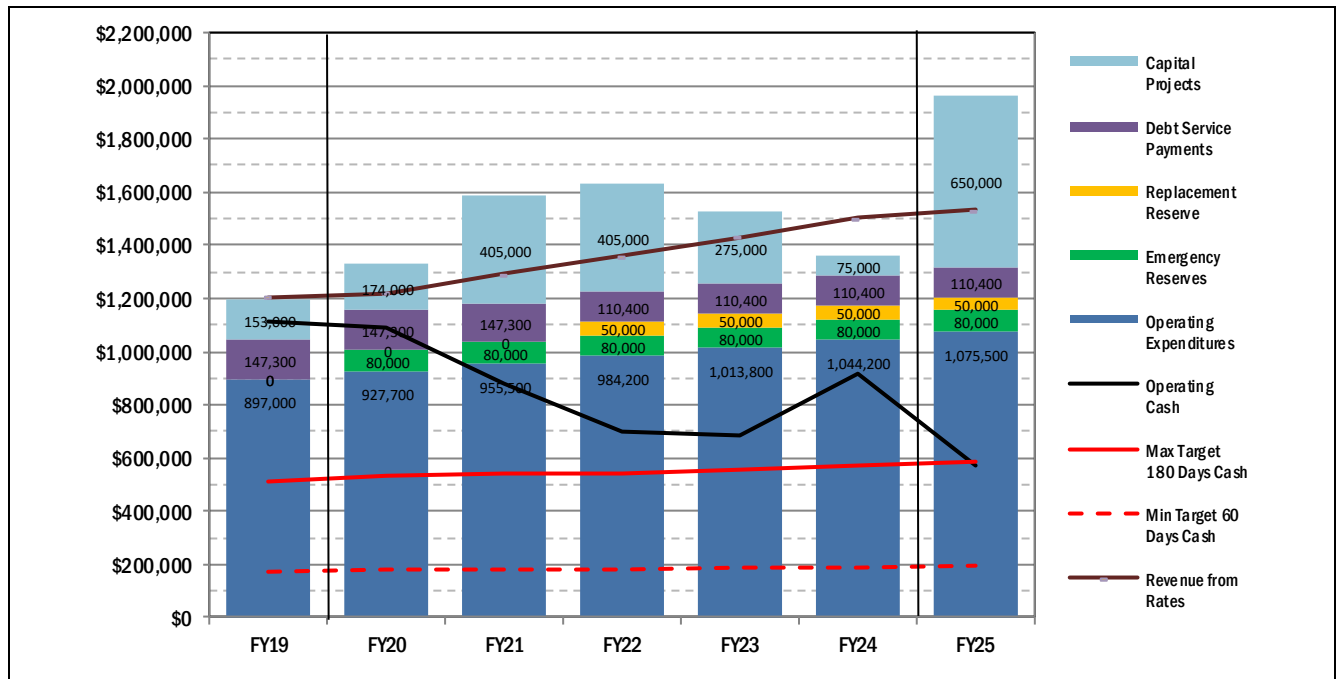


Figure 3-1. Projected Operating Fund Cash Flow

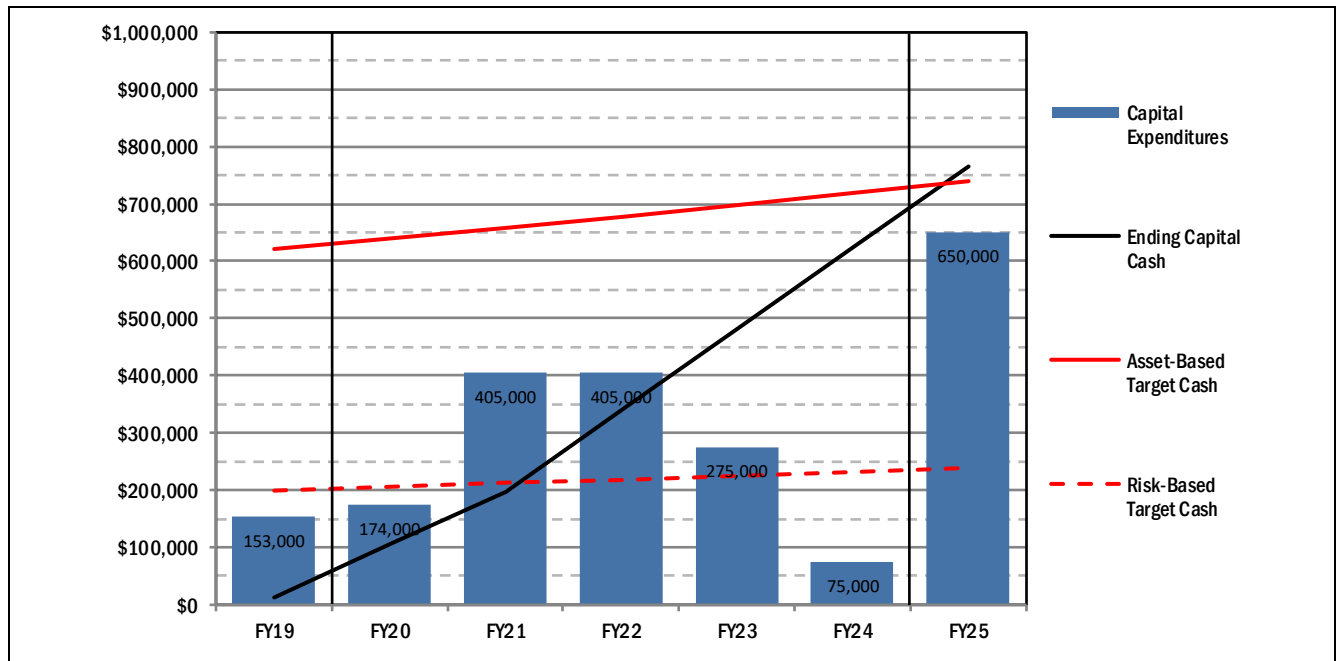


Figure 3-2. Projected Capital Fund Cash Flow

### 3.7 Recommended Water Fees

Recommended water fees are shown in the table below.

Table 3-4. Recommended Water Fees												
Fee Category	Current FY19	Projected Five-Year Rate Plan						Annual Percent Increases				
		FY20	FY21	FY22	FY23	FY24	FY20	FY21	FY22	FY23	FY24	
	<i>effective &gt;</i>	<i>1-Jul-18</i>	<i>1-Nov-19</i>	<i>1-Jul-20</i>	<i>1-Jul-21</i>	<i>1-Jul-22</i>	<i>1-Jul-23</i>					
<b>Base Rate Fees, \$/month</b>												
Meter Size	<i>Meter Ratio</i>											
5/8 x 3/4-inch	1.0	\$40.00	\$40.60	\$43.00	\$45.30	\$47.60	\$50.00	2%	6%	5%	5%	5%
1-inch	2.5	\$96	\$96	\$101	\$107	\$112	\$118	0%	5%	6%	5%	5%
1½-inch	5.0	\$189	\$188	\$198	\$209	\$220	\$231	-1%	5%	6%	5%	5%
2-inch	8.0	\$301	\$298	\$315	\$332	\$349	\$366	-1%	6%	5%	5%	5%
3-inch	17.5	\$655	\$647	\$684	\$721	\$758	\$795	-1%	6%	5%	5%	5%
4-inch	30.0	\$1,121	\$1,106	\$1,170	\$1,233	\$1,297	\$1,360	-1%	6%	5%	5%	5%
6-inch	62.5	\$2,330	\$2,300	\$2,430	\$2,560	\$2,700	\$2,830	-1%	6%	5%	5%	5%
Bulk Service		\$96.00	\$96.00	\$101.00	\$107.00	\$112.00	\$118.00	0%	5%	6%	5%	5%
<b>Water Use Fees, \$/CCF</b>												
Bulk Service		\$5.72	\$5.83	\$6.31	\$6.82	\$7.34	\$7.89	2%	8%	8%	8%	7%
Com/Inst/Ldsp		\$6.07	\$6.06	\$6.57	\$7.09	\$7.64	\$8.22	0%	8%	8%	8%	8%
<b>Single/Multi Family</b>												
Tier 1		\$3.90	\$3.97	\$4.30	\$4.64	\$5.00	\$5.37	2%	8%	8%	8%	7%
Tier 2		\$6.54	\$6.70	\$7.26	\$7.84	\$8.44	\$9.06	2%	8%	8%	8%	7%
Tier 3		\$9.09	\$9.10	\$9.86	\$10.64	\$11.46	\$12.31	0%	8%	8%	8%	7%
<b>Water Use Tier Breaks, CCF</b>												
Single/Multi Family		<i>Current</i>	<i>Projected</i>	<i>Projected</i>	<i>Projected</i>	<i>Projected</i>	<i>Projected</i>					
Tier 1		0 - 8	0 - 6	0 - 6	0 - 6	0 - 6	0 - 6					
Tier 2		9 - 30	7 - 20	7 - 20	7 - 20	7 - 20	7 - 20					
Tier 3		>30	>20	>20	>20	>20	>20					

### 3.8 Impact on FY20 Monthly Bills

#### 3.8.1 Single Family Monthly Bills

As shown in the table below, in FY20, the percent change in bills at each level of use will vary due to the combined impact of the small (two percent) change in the Base fee and the more noticeable impact of changes in tier breaks and Use fees at each tier break. In subsequent fiscal years, the percent change in bills will not vary much at different levels of water use.

Water bills will vary from month to month. As shown in Figure 2-6, approximately 65% of all water bills during January will have water use only in Tier 1. In peak summer months, approximately 19% of all water bills will have water use in Tier 3. Dashed horizontal lines at 6 CCF and 20 CCF show recommended tier breaks; solid horizontal lines at 8 CCF and 30 CCF show current tier breaks.

**Table 3-5. Current and Projected FY20 Single Family Monthly Water Bills**

Monthly Water Use CCF	gpd	Current Rates						Recommended Three-Tier Rates						Monthly Change Total \$ Total %	
		Tier 1	Tier 2	Tier 3	Use Fee	% x %/inch Base Fee	Total Bill	Tier 1	Tier 2	Tier 3	Use Fee	% x %/inch Base Fee	Total Bill		
		0 - 8 \$3.90	9 - 30 \$6.54	>30 \$9.09				0 - 6 \$3.97	7 - 20 \$6.70	>20 \$9.10					
0	0	\$0.00			\$0.00	\$40.00	\$40.00	\$0.00			\$0.00	\$40.60	\$40.60	\$0.60	2%
1	25	\$3.90			\$3.90	\$40.00	\$43.90	\$3.97			\$3.97	\$40.60	\$44.57	\$0.67	2%
2	49	\$7.80			\$7.80	\$40.00	\$47.80	\$7.94			\$7.94	\$40.60	\$48.54	\$0.74	2%
3	74	\$11.70			\$11.70	\$40.00	\$51.70	\$11.91			\$11.91	\$40.60	\$52.51	\$0.81	2%
4	98	\$15.60			\$15.60	\$40.00	\$55.60	\$15.88			\$15.88	\$40.60	\$56.48	\$0.88	2%
5	123	\$19.50			\$19.50	\$40.00	\$59.50	\$19.85			\$19.85	\$40.60	\$60.45	\$0.95	2%
6	148	\$23.40			\$23.40	\$40.00	\$63.40	\$23.82			\$23.82	\$40.60	\$64.42	\$1.02	2%
7	172	\$27.30			\$27.30	\$40.00	\$67.30	\$23.82	\$6.70		\$30.52	\$40.60	\$71.12	\$3.82	6%
8	197	\$31.20			\$31.20	\$40.00	\$71.20	\$23.82	\$13.40		\$37.22	\$40.60	\$77.82	\$6.62	9%
9	221	\$31.20	\$6.54		\$37.74	\$40.00	\$77.74	\$23.82	\$20.10		\$43.92	\$40.60	\$84.52	\$6.78	9%
10	246	\$31.20	\$13.08		\$44.28	\$40.00	\$84.28	\$23.82	\$26.80		\$50.62	\$40.60	\$91.22	\$6.94	8%
11	271	\$31.20	\$19.62		\$50.82	\$40.00	\$90.82	\$23.82	\$33.50		\$57.32	\$40.60	\$97.92	\$7.10	8%
12	295	\$31.20	\$26.16		\$57.36	\$40.00	\$97.36	\$23.82	\$40.20		\$64.02	\$40.60	\$104.62	\$7.26	7%
13	320	\$31.20	\$32.70		\$63.90	\$40.00	\$103.90	\$23.82	\$46.90		\$70.72	\$40.60	\$113.32	\$7.42	7%
14	344	\$31.20	\$39.24		\$70.44	\$40.00	\$110.44	\$23.82	\$53.60		\$77.42	\$40.60	\$118.02	\$7.58	7%
15	369	\$31.20	\$45.78		\$76.98	\$40.00	\$116.98	\$23.82	\$60.30		\$84.12	\$40.60	\$124.72	\$7.74	7%
16	394	\$31.20	\$52.32		\$83.52	\$40.00	\$123.52	\$23.82	\$67.00		\$90.82	\$40.60	\$131.42	\$7.90	6%
17	418	\$31.20	\$58.86		\$90.06	\$40.00	\$130.06	\$23.82	\$73.70		\$97.52	\$40.60	\$138.12	\$8.06	6%
18	443	\$31.20	\$65.40		\$96.60	\$40.00	\$136.60	\$23.82	\$80.40		\$104.22	\$40.60	\$144.82	\$8.22	6%
19	467	\$31.20	\$71.94		\$103.14	\$40.00	\$143.14	\$23.82	\$87.10		\$110.92	\$40.60	\$151.52	\$8.38	6%
20	492	\$31.20	\$78.48		\$109.68	\$40.00	\$149.68	\$23.82	\$93.80		\$117.62	\$40.60	\$158.22	\$8.54	6%
21	516	\$31.20	\$85.02		\$116.22	\$40.00	\$156.22	\$23.82	\$93.80	\$9.10	\$126.72	\$40.60	\$167.32	\$11.10	7%
22	541	\$31.20	\$91.56		\$122.76	\$40.00	\$162.76	\$23.82	\$93.80	\$18.20	\$135.82	\$40.60	\$176.42	\$13.66	8%
23	566	\$31.20	\$98.10		\$129.30	\$40.00	\$169.30	\$23.82	\$93.80	\$27.30	\$144.92	\$40.60	\$185.52	\$16.22	10%
24	590	\$31.20	\$104.64		\$135.84	\$40.00	\$175.84	\$23.82	\$93.80	\$36.40	\$154.02	\$40.60	\$194.62	\$18.78	11%
25	615	\$31.20	\$111.18		\$142.38	\$40.00	\$182.38	\$23.82	\$93.80	\$45.50	\$163.12	\$40.60	\$203.72	\$21.34	12%
26	639	\$31.20	\$117.72		\$148.92	\$40.00	\$188.92	\$23.82	\$93.80	\$54.60	\$172.22	\$40.60	\$212.82	\$23.90	13%
27	664	\$31.20	\$124.26		\$155.46	\$40.00	\$195.46	\$23.82	\$93.80	\$63.70	\$181.32	\$40.60	\$221.92	\$26.46	14%
28	689	\$31.20	\$130.80		\$162.00	\$40.00	\$202.00	\$23.82	\$93.80	\$72.80	\$190.42	\$40.60	\$231.02	\$29.02	14%
29	713	\$31.20	\$137.34		\$168.54	\$40.00	\$208.54	\$23.82	\$93.80	\$81.90	\$199.52	\$40.60	\$240.12	\$31.58	15%
30	738	\$31.20	\$143.88		\$175.08	\$40.00	\$215.08	\$23.82	\$93.80	\$91.00	\$208.62	\$40.60	\$249.22	\$34.14	16%
31	762	\$31.20	\$143.88	\$9.09	\$184.17	\$40.00	\$224.17	\$23.82	\$93.80	\$100.10	\$217.72	\$40.60	\$258.32	\$34.15	15%
32	787	\$31.20	\$143.88	\$18.18	\$193.26	\$40.00	\$233.26	\$23.82	\$93.80	\$109.20	\$226.82	\$40.60	\$267.42	\$34.16	15%
33	812	\$31.20	\$143.88	\$27.27	\$202.35	\$40.00	\$242.35	\$23.82	\$93.80	\$118.30	\$235.92	\$40.60	\$276.52	\$34.17	14%
34	836	\$31.20	\$143.88	\$36.36	\$211.44	\$40.00	\$251.44	\$23.82	\$93.80	\$127.40	\$245.02	\$40.60	\$285.62	\$34.18	14%
35	861	\$31.20	\$143.88	\$45.45	\$220.53	\$40.00	\$260.53	\$23.82	\$93.80	\$136.50	\$254.12	\$40.60	\$294.72	\$34.19	13%
36	885	\$31.20	\$143.88	\$54.54	\$229.62	\$40.00	\$269.62	\$23.82	\$93.80	\$145.60	\$263.22	\$40.60	\$303.82	\$34.20	13%
37	910	\$31.20	\$143.88	\$63.63	\$238.71	\$40.00	\$278.71	\$23.82	\$93.80	\$154.70	\$272.32	\$40.60	\$312.92	\$34.21	12%
38	935	\$31.20	\$143.88	\$72.72	\$247.80	\$40.00	\$287.80	\$23.82	\$93.80	\$163.80	\$281.42	\$40.60	\$322.02	\$34.22	12%
39	959	\$31.20	\$143.88	\$81.81	\$256.89	\$40.00	\$296.89	\$23.82	\$93.80	\$172.90	\$290.52	\$40.60	\$331.12	\$34.23	12%
40	984	\$31.20	\$143.88	\$90.90	\$265.98	\$40.00	\$305.98	\$23.82	\$93.80	\$182.00	\$299.62	\$40.60	\$340.22	\$34.24	11%

### 3.8.2 Commercial/Institutional/Landscape Monthly Bills

As shown in the table below, in FY20, the percent change in bills at each level of use will vary due to the combined impact of the small (two percent) change in the Base fee and the small impact of the change in the Use fee. In subsequent fiscal years, the percent change in bills will not vary much at different levels of water use. Tier breaks are shown with dashed (recommended) and solid (current) lines but do not apply to nonresidential users that are billed a uniform Use fee for all water use.

Table 3-6. Current and Projected FY20 Commercial/Institutional/Landscape Monthly Water Bills														
Monthly Water Use CCF gpd	Current Rates						Recommended Rates						Monthly Change Total \$ Total %	
	Tier 1 All Use \$6.07	Tier 2 na	Tier 3 na	Use Fee Total	% x %/inch Base Fee \$40.00	Total Bill	Tier 1 All Use \$6.06	Tier 2 na	Tier 3 na	Use Fee Total	% x %/inch Base Fee \$40.60	Total Bill		
	0	0	\$0		\$0	\$40	\$40	\$0			\$0	\$41	\$41	\$0.60
10	246	\$61		\$61	\$40	\$101	\$61			\$61	\$41	\$101	\$0.50	0%
20	492	\$121		\$121	\$40	\$161	\$121			\$121	\$41	\$162	\$0.40	0%
30	738	\$182		\$182	\$40	\$222	\$182			\$182	\$41	\$222	\$0.30	0%
40	984	\$243		\$243	\$40	\$283	\$242			\$242	\$41	\$283	\$0.20	0%
50	1230	\$304		\$304	\$40	\$344	\$303			\$303	\$41	\$344	\$0.10	0%
60	1476	\$364		\$364	\$40	\$404	\$364			\$364	\$41	\$404	\$0.00	0%
70	1722	\$425		\$425	\$40	\$465	\$424			\$424	\$41	\$465	-\$0.10	0%
80	1968	\$486		\$486	\$40	\$526	\$485			\$485	\$41	\$525	-\$0.20	0%
90	2,214	\$546		\$546	\$40	\$586	\$545			\$545	\$41	\$586	-\$0.30	0%
100	2,460	\$607		\$607	\$40	\$647	\$606			\$606	\$41	\$647	-\$0.40	0%
110	2,705	\$668		\$668	\$40	\$708	\$667			\$667	\$41	\$707	-\$0.50	0%
120	2,951	\$728		\$728	\$40	\$768	\$727			\$727	\$41	\$768	-\$0.60	0%
130	3,197	\$789		\$789	\$40	\$829	\$788			\$788	\$41	\$828	-\$0.70	0%
140	3,443	\$850		\$850	\$40	\$890	\$848			\$848	\$41	\$889	-\$0.80	0%
150	3,689	\$911		\$911	\$40	\$951	\$909			\$909	\$41	\$950	-\$0.90	0%
160	3,935	\$971		\$971	\$40	\$1011	\$970			\$970	\$41	\$1010	-\$1.00	0%
170	4,181	\$1032		\$1032	\$40	\$1072	\$1030			\$1030	\$41	\$1071	-\$1.10	0%
180	4,427	\$1093		\$1093	\$40	\$1133	\$1091			\$1091	\$41	\$1131	-\$1.20	0%
190	4,673	\$1153		\$1153	\$40	\$1193	\$1151			\$1151	\$41	\$1192	-\$1.30	0%
200	4,919	\$1214		\$1214	\$40	\$1254	\$1212			\$1212	\$41	\$1253	-\$1.40	0%
210	5,165	\$1275		\$1275	\$40	\$1315	\$1273			\$1273	\$41	\$1313	-\$1.50	0%
220	5,411	\$1335		\$1335	\$40	\$1375	\$1333			\$1333	\$41	\$1374	-\$1.60	0%
230	5,657	\$1396		\$1396	\$40	\$1436	\$1394			\$1394	\$41	\$1434	-\$1.70	0%
240	5,903	\$1457		\$1457	\$40	\$1497	\$1454			\$1454	\$41	\$1495	-\$1.80	0%
250	6,149	\$1518		\$1518	\$40	\$1558	\$1515			\$1515	\$41	\$1556	-\$1.90	0%
260	6,395	\$1578		\$1578	\$40	\$1618	\$1576			\$1576	\$41	\$1616	-\$2.00	0%
270	6,641	\$1639		\$1639	\$40	\$1679	\$1636			\$1636	\$41	\$1677	-\$2.10	0%
280	6,887	\$1700		\$1700	\$40	\$1740	\$1697			\$1697	\$41	\$1737	-\$2.20	0%
290	7,133	\$1760		\$1760	\$40	\$1800	\$1757			\$1757	\$41	\$1798	-\$2.30	0%
300	7,379	\$1821		\$1821	\$40	\$1861	\$1818			\$1818	\$41	\$1859	-\$2.40	0%
310	7,624	\$1882		\$1882	\$40	\$1922	\$1879			\$1879	\$41	\$1919	-\$2.50	0%
320	7,870	\$1942		\$1942	\$40	\$1982	\$1939			\$1939	\$41	\$1980	-\$2.60	0%
330	8,116	\$2,003		\$2,003	\$40	\$2,043	\$2,000			\$2,000	\$41	\$2,040	-\$2.70	0%
340	8,362	\$2,064		\$2,064	\$40	\$2,104	\$2,060			\$2,060	\$41	\$2,101	-\$2.80	0%
350	8,608	\$2,125		\$2,125	\$40	\$2,165	\$2,121			\$2,121	\$41	\$2,162	-\$2.90	0%
360	8,854	\$2,185		\$2,185	\$40	\$2,225	\$2,182			\$2,182	\$41	\$2,222	-\$3.00	0%
370	9,100	\$2,246		\$2,246	\$40	\$2,286	\$2,242			\$2,242	\$41	\$2,283	-\$3.10	0%
380	9,346	\$2,307		\$2,307	\$40	\$2,347	\$2,303			\$2,303	\$41	\$2,343	-\$3.20	0%
390	9,592	\$2,367		\$2,367	\$40	\$2,407	\$2,363			\$2,363	\$41	\$2,404	-\$3.30	0%
400	9,838	\$2,428		\$2,428	\$40	\$2,468	\$2,424			\$2,424	\$41	\$2,465	-\$3.40	0%

### 3.9 Historic and Projected Monthly Bills

#### 3.9.1 Historic and Projected Single Family Monthly Bills

Historic and projected Single Family monthly bills are shown in the figure below. Monthly bills do not include the PVWMA surcharge. Bills are based on declining water use over the 22-year period.

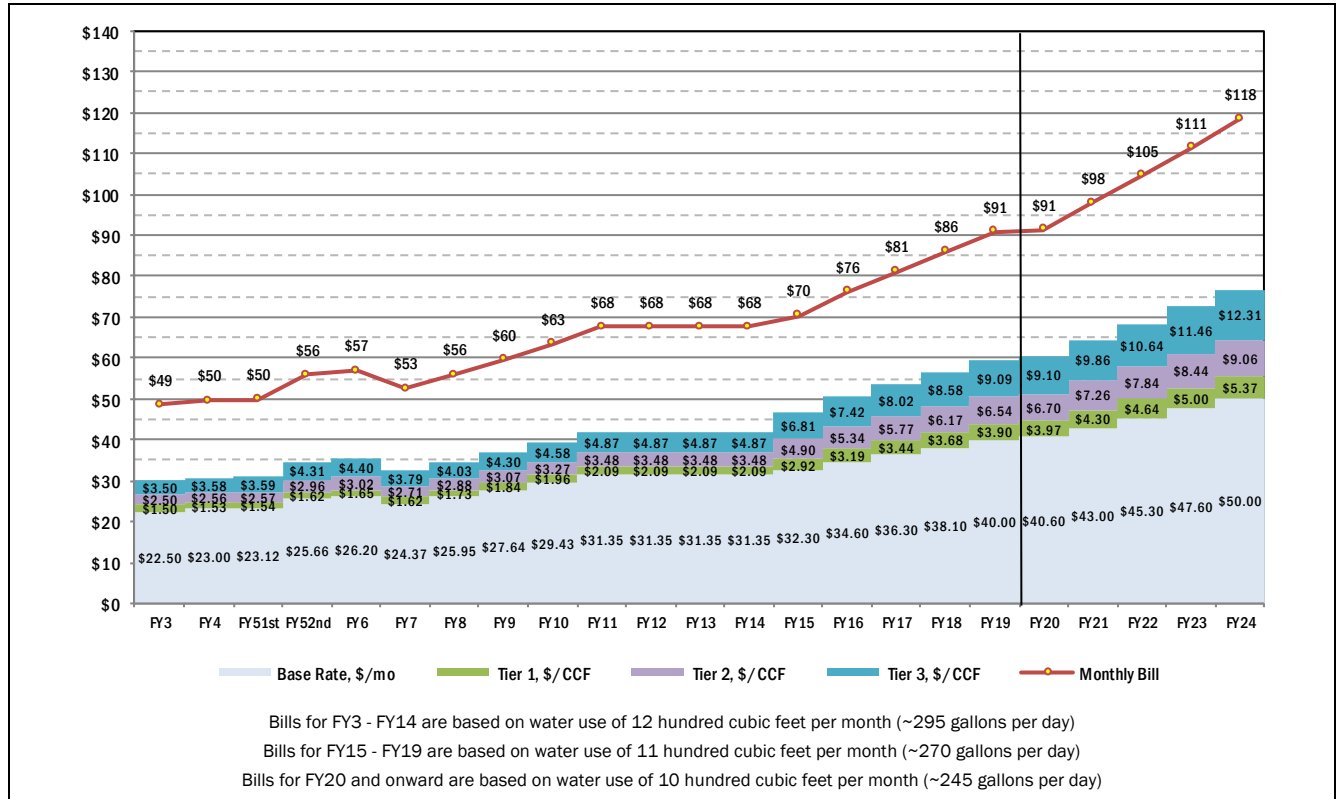


Figure 3-3. Historic and Projected Single Family Monthly Water Bills



### 3.9.2 Historic and Projected Commercial/Institutional/Landscape Monthly Bills

Historical and projected Commercial/Institutional/Landscape monthly bills are shown in the figure below. Monthly bills do not include the PVWMA surcharge. Bills are based on monthly water use of 200 CCF (approximately 4,920 gallons per day).

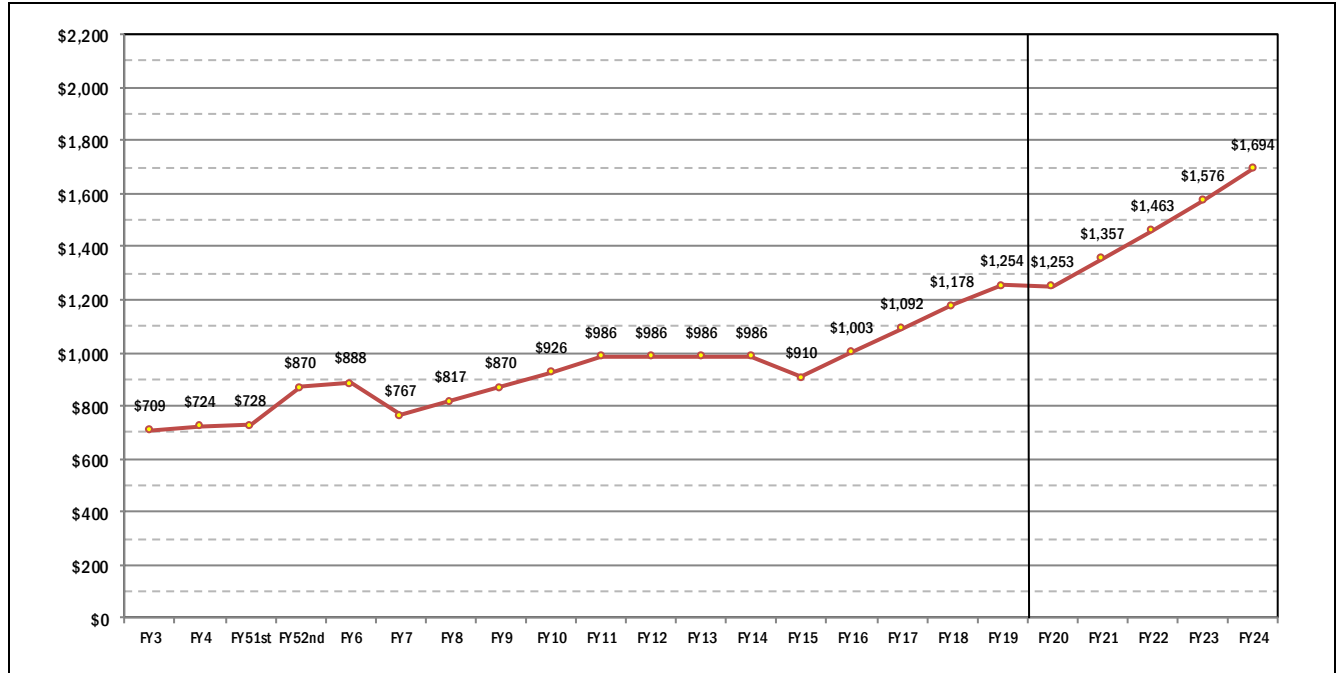


Figure 3-4. Historic and Projected Commercial/Institutional/Landscape Monthly Water Bills

## Section 4

# Development of Water Capacity Charges

Capacity charges are intended to recover both a portion of the District's proposed Capital Improvement Program (CIP) cost, and utility rate payers' prior investment in capital facilities that support land development by providing capacity for new connections. The capacity charges that are developed in this report meet the regulatory requirements found in Government Code Section 66000 *et sequentia* regarding the establishment of capacity charges.

### 4.1 Regulatory Requirements

Government Code Section 66013 defines a capacity charges as “a charge for public facilities in existence at the time a charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the local agency involving capital expense relating to its use of existing or new public facilities. A ‘capacity charge’ does not include a commodity charge.”

Section 66013 also describes requirements related to use of revenue from capacity charges and providing information to the public. This study does not examine the District's practices regarding those requirements.

In developing capacity charges, we have endeavored to satisfy the rational nexus criteria generally applied to these types of charges. A rational nexus-based capacity charge must:

- Be rationally based on public policy that demonstrates a nexus between new development (connections) and the need to expand or build facilities to accommodate it.
- Not exceed the new development's proportional share of the cost of facilities needed to serve that development, after crediting it for other contributions that it has already made or will make toward that cost.
- Not be arbitrary or discriminatory in its application to individuals or customer classes.

Capacity charges help ensure that the “growth pays for growth” by allocating the cost of new facilities and the cost of unused capacity in existing facilities to new development while allocating the cost of repairing and refurbishing facilities to current customers.

## 4.2 Current Capacity Charges and Conceptual Approach

The capacity charges developed in this study are based on the buy-in method and valuation of assets based on their current replacement value.

Meter Size	Current Charges
5/8 x 3/4-inch	\$13,302
1-inch	\$33,250
1½-inch	\$66,500
2-inch	\$106,400
3-inch	\$232,800
4-inch	\$398,900
6-inch	\$831,300

The system buy-in method recovers the replacement cost of capacity in those portions of the existing system in which there is capacity available (for example, the transmission, distribution, storage and pumping components of the system). The buy-in method excludes service laterals and meters as these assets do not benefit new users connecting to the system. The value of the water system is adjusted to account for contributed capital and assets, working capital, and the amount of debt service principal outstanding.

Capacity charges may be updated periodically using the *Engineering News Record 20-City Construction Cost Index (ENR 20-City CCI)*.

The District’s current capacity charges (shown in the adjacent table) were developed in 2014 using the buy-in method and valuation of assets based on their escalated acquisition cost less depreciation. The District escalated the 2014 values using the ENR 20-City CCI.

Methodology used in the development of capacity charges as part of this study is summarized in the figure below.

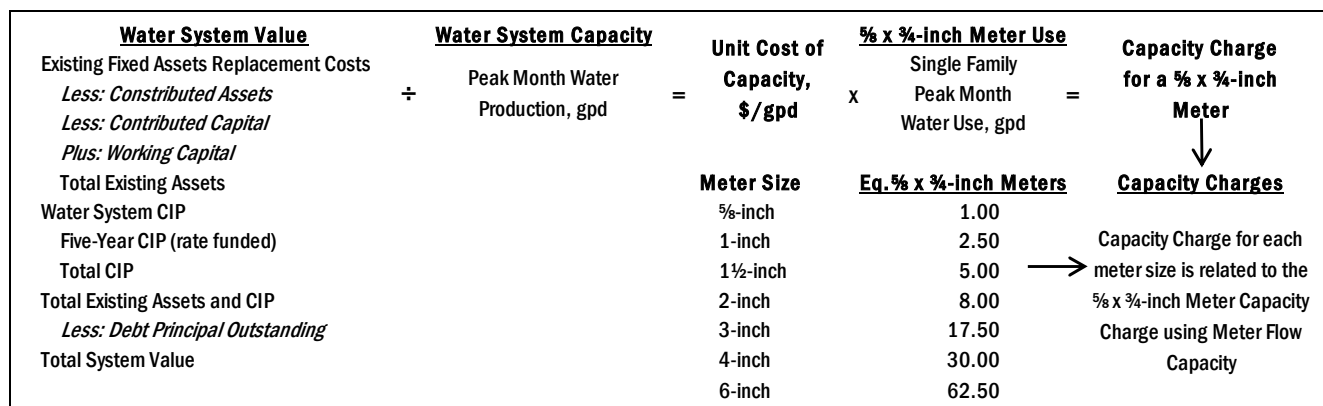


Figure 4-1. Capacity Charge Development Methodology

## 4.3 Water System Valuation

The system buy-in method of the capacity charge recovers the cost of capacity in those portions of the existing system in which there is capacity available (for example, the transmission, distribution, storage and pumping components of the system). The value of the existing system was developed using data for the following elements:

- Existing Fixed Assets
- Contributed Assets
- Contributed Capital
- Capital Improvement Program Expenditures
- Long Term Debt Principal Outstanding
- Working Capital

**Existing Fixed Assets.** The District compiled a list of its water system assets and grouped them into 11 categories. The list includes 32 items. Each item was assigned a replacement value (in current dollars). A detailed list of assets with showing the valuation for each item is included in Table E-1 in Appendix E.

**Table 4-1. Summary of Fixed Assets Valuation**

Category	Total Value	Contributions	
		Percent	Dollars
Wells	\$2,000,000	0%	\$0
Treatment	\$400,000	0%	\$0
Pumps	\$850,000	0%	\$0
Storage	\$1,475,000	0%	\$0
Telemetry	\$274,000	0%	\$0
Transmission Mains	\$13,925,000	0%	\$0
Distribution Lines	\$7,211,000	73%	\$5,242,000
Hydrants	\$1,183,000	50%	\$592,000
Meters	\$717,800	100%	\$718,000
Service Laterals	\$2,392,500	100%	\$2,393,000
Buildings	\$650,000	0%	\$0
<b>Total</b>	<b>\$31,078,300</b>		<b>\$8,945,000</b>

**Contributed Assets.** In some cases, owners construct and contribute assets needed to serve their development. The value of contributed assets is subtracted from the value of the asset base for development of capacity charges. The amount of contributed assets was estimated by the District for each group of assets. The replacement value for each group, the contributed value for each group and the total system replacement value (with and without contributed assets) are summarized in Table 4-1.

**Contributed Capital.** The amount of revenue collected from capacity charges was obtained from District records for FY95 – FY19. The amount of revenue collected from these charges and fees for FY59 – FY94 was estimated. Annual revenue values were adjusted upward for the time value of money. The adjusted total of contributed capital is shown in Table E-2 in Appendix E.

**Capital Improvement Program.** Projected expenditures and source of funds for District Water System capital projects are estimated to be \$1,334,000 for FY20 – FY24.

**Long Term Debt Principal Outstanding.** The District has one debt issue outstanding – a 2015 Note. Debt principal outstanding is subtracted from the value of the asset base for development of capacity charges.

**Working Capital.** The District maintains a small cash balance in the Water Fund. During FY20 – FY24, cash from the fund balance will be used to fund a portion of capital expenditures. The projected average level of funding using cash reserves is approximately \$350,000.

The valuation of the Water System, net of adjustments, is shown in Table 4-2.

Table 4-2. Valuation of Water System		
Fixed Asset Category	Valuation	Adjusted Valuation
Wells	\$2,000,000	
Treatment	\$400,000	
Pumps	\$850,000	
Storage	\$1,475,000	
Transmission Mains	\$13,925,000	
Distribution Lines	\$7,211,000	
Hydrants	\$1,183,000	
Meters	\$717,800	
Service Laterals	\$2,392,500	
Buildings	\$650,000	
Total Fixed Asset Valuation		\$30,804,300
Adjustments		
1. Contributed Assets		
<i>Less: Value of Contributed Assets</i>		(\$8,945,000)
2. Contributed Capital		
<i>Less: Revenue from Capacity Charges</i>		(\$6,073,000)
3. Debt Principal Outstanding		
<i>Less: 2015 Debt Service Principal Outstanding</i>		(\$1,026,000)
4. Single User Assets		
<i>Less: Meters and Service Laterals</i>		(\$3,110,300)
5. Water System CIP (funded by rates)		
<i>Plus: CIP funded by rates, FY20 - FY24</i>		\$1,334,000
6. Working Capital		
<i>Plus: Average Reserve Balance, FY20 - FY24</i>		\$350,000
Net Valuation		\$13,334,000
	<i>round to \$1,000 &gt;</i>	\$13,330,000

## 4.4 Water System Capacity

The capacity of the water system was estimated using historical peak month water production data. The average of peak production during the summer of 2011 and 2012 was calculated as shown in Table 4-3.

Table 4-3. System Peak Month Production Capacity				
Calendar Year	Peak Month Production	Gallons	Days	Gallons per Day
2012	July	14,127,120	31	455,714
2011	July	13,415,677	31	432,764
Average		13,771,399		444,239
		<i>round to 1,000 &gt;</i>		440,000

## 4.5 Unit Cost Peak Month Capacity

The calculation of capacity charges involves developing a unit charge applicable to any new connection

System Net Valuation		Peak Month Water Production gallons per day		Unit Cost Peak Month
\$13,330,000	÷	440,000	=	\$30.30 / gpd

(or increase in size for an existing connection). The unit charge is developed by dividing the adjusted value of the water system by the peak month production capacity of the system. The calculation is shown in Table 4-4.

## 4.6 Single Family Peak Month Use

Single Family peak month use was estimated using recent water delivery data. Peak month water use during the summer of 2011 and 2012 was calculated as shown in Table 4-5. The monthly water use values and annual average number of accounts are from Department of Water Resources Form 38 Reports.

The projected peak month water use assigned to a  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch meter connection for the development of capacity charges is 460 gallons per day.

Calendar Year	Peak Month Deliveries	Gallons	Days	Gallons per Day	Average Number of Accounts	Gallons per Day per Account
2012	July	12,364,597	31	398,858	840	475
2011	July	11,565,626	31	373,085	843	443
Average		11,965,111		385,971	842	459
					<i>round to 10 &gt;</i>	460

## 4.7 Capacity Charge for $\frac{5}{8}$ x $\frac{3}{4}$ -inch Meter

The capacity charge for a  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch meter is calculated using the unit cost for peak month capacity (shown in Table 4-4) multiplied by the peak month water use assigned to a  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch meter connection shown in Table 4-5. The calculation of the capacity charge for a  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch meter is shown in Table 4-6.

Unit Cost Peak Month Development		Peak Month Water Use gallons per day		Capacity Charge $\frac{5}{8}$ x $\frac{3}{4}$ -inch Meter
\$30.30 / gpd	x	460	=	\$13,938
			<i>round to \$1,000 &gt;</i>	\$13,940

## 4.8 Schedule of Capacity Charges

The capacity charges for other meter sizes are based on an "equivalency factor" that relates the design maximum flow capacity of a meter size (in gallons per minute, gpm) to that of a standard  $\frac{5}{8}$  x  $\frac{3}{4}$ -inch size meter. Design capacities for meters are based on values published by the American Water Works Association (AWWA) and are the same capacities used in the development of water fees.<sup>2</sup> The equivalency factors and calculation of capacity charges for meter sizes up to 6-inch are shown in Table 4-7.

Meter Size	Equivalency Factor	Capacity Charge
$\frac{5}{8}$ x $\frac{3}{4}$ -inch	1.0	\$13,940
1-inch	2.5	\$34,850
1½-inch	5.0	\$69,690
2-inch	8.0	\$111,500
3-inch	17.5	\$243,900
4-inch	30.0	\$418,100
6-inch	62.5	\$871,100

## 4.9 Comparison of Current vs. Recommended Capacity Charges

The current and recommended schedule of capacity charges are shown in Table 4-8. The recommended capacity charges are for FY20. Charges for FY21 and onward may be escalated using an appropriate index such as the *Engineering News Record* 20-City Construction Cost Index.

Meter Size	Current Charges	Recommended Charges	Increase (Decrease)	
			Dollars	Percent
$\frac{5}{8}$ x $\frac{3}{4}$ -inch	\$13,302	\$13,940	\$638	5%
1-inch	\$33,250	\$34,850	\$1,600	5%
1½-inch	\$66,500	\$69,690	\$3,190	5%
2-inch	\$106,400	\$111,500	\$5,100	5%
3-inch	\$232,800	\$243,900	\$11,100	5%
4-inch	\$398,900	\$418,100	\$19,200	5%
6-inch	\$831,300	\$871,100	\$39,800	5%

<sup>2</sup> American Water Works Association, M6 Water Meters - Selection, Installation, Testing and Maintenance, 2012 Fifth Edition, pages 63 - 65.

## 4.10 Survey of Single Family Capacity Charges

The District's current and recommended capacity charges were compared to the capacity charges for other agencies. The comparison is made using the charge that is typical for a single family connection at each agency. Table 4-9 shows the results of the survey.

Agency	Meter Size	Charge
Watsonville	¾-inch	\$3,823
Pajaro/Sunny Mesa Community Services District	⅝ and ¾-inch	\$6,970
San Juan Bautista	⅝, ¾ or 1-inch	\$8,545
San Lorenzo Valley Water District	⅝ and ¾-inch	\$10,577
Sunnyslope Water District	⅝, ¾ or 1-inch	\$10,975
Aromas Water District, Current	⅝ x ¾-inch	\$13,302
<b>Aromas Water District, Recommended</b>	<b>⅝ x ¾-inch</b>	<b>\$13,940</b>



This Page Intentionally Blank.

## Section 5

# Water Rates Survey

Current and projected FY20 Single Family customer bills for the Aromas Water District were compared to those in the service areas of the Pajaro/Sunny Mesa Community Services District, the City of San Juan Bautista, the San Lorenzo Valley Water District, the Sunnyslope Water District and the City of Watsonville. Monthly bills are shown in the figure below and are for the smallest Single Family meter size and 10 CCF per month of water use.

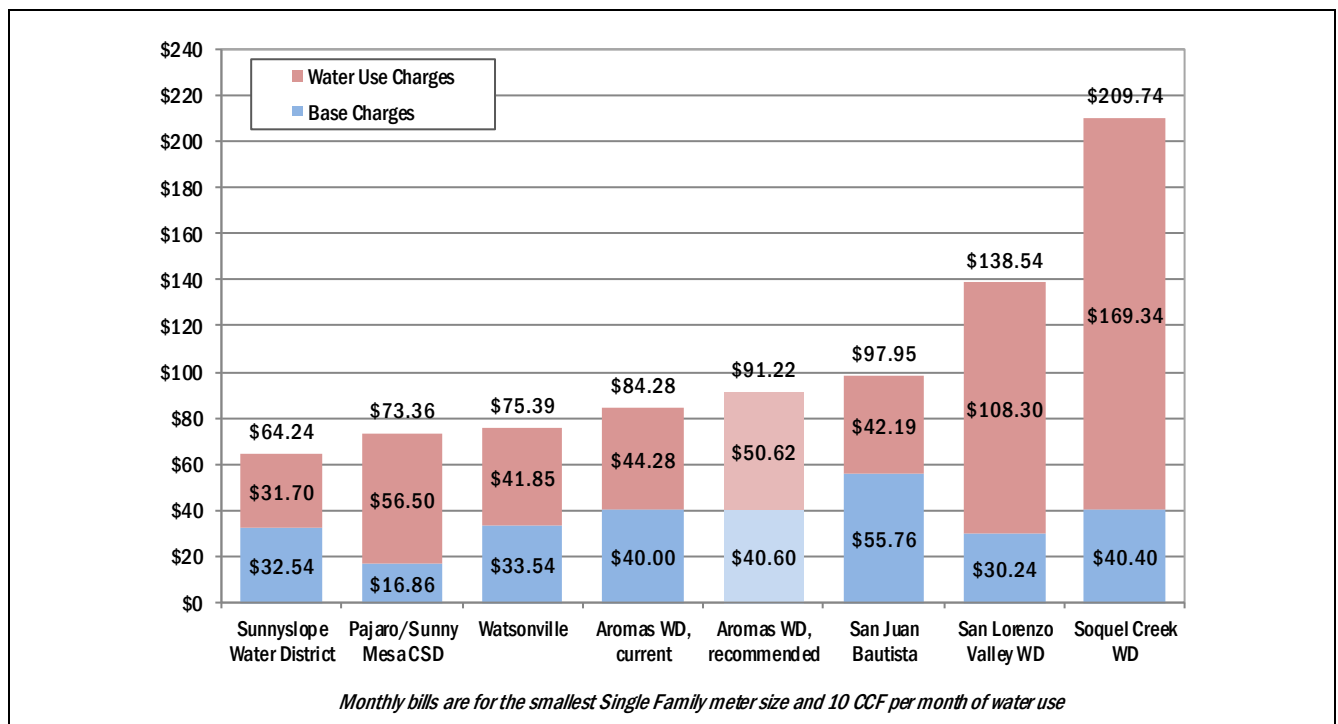


Figure 5-1. Survey of Single Family Monthly Water Bills

Rates and tier breaks for each agency are shown in the table below.

Table 5-1. Water Rates Survey								
Agency	Effective Date	Base Rate \$/month	Tier Rate		Monthly Water Bill			
			\$/CCF	Tier Breaks	5 CCF	10 CCF	20 CCF	40 CCF
Aromas Water District base meter = 5/8 x 3/4-inch	1-Jul-18	\$40.00	\$3.90	0 - 8 9 - 30 >30	\$59.50	\$84.28	\$149.68	\$305.98
Aromas Water District base meter = 5/8 x 3/4-inch	1-Oct-19 <i>projected</i>	\$40.60	\$3.97	0 - 6 7 - 20 >20	\$60.45	\$91.22	\$158.22	\$340.22
Pajaro/Sunny Mesa CSD base meter = 5/8 x 3/4-inch	1-Jan-20	\$16.86	\$5.65	all use	\$45.11	\$73.36	\$129.86	\$242.86
San Juan Bautista	1-Jul-19	\$55.76	\$5.64	all use	\$76.86	\$97.95	\$140.15	\$224.53
San Lorenzo Valley Water District base meter = 5/8 or 3/4-inch	1-Nov-18	\$30.24	\$10.83	all use	\$84.39	\$138.54	\$246.84	\$463.44
Soquel Creek Water District base meter = 5/8, 3/4 or 1-inch	1-Jan-20	\$40.40	\$7.01	0 - 6 >6	\$75.45	\$209.74	\$527.94	\$763.34
Sunnyslope Water District base meter = 5/8, 3/4 or 1-inch	21-Dec-18	\$32.54	\$3.17	0 - 10 11 - 20 >20	\$48.39	\$64.24	\$111.24	\$250.64
Inside District, Zone 3 rates			\$6.97					
Watsonville base meter = 5/8 or 3/4-inch	1-Jul-19	\$33.54	\$3.84	0 - 5 6 - 10 >10	\$52.74	\$75.39	\$136.79	\$259.59
Inside City rates			\$6.14					



## Section 6

# Limitations

This document was prepared solely for the Aromas Water District in accordance with professional standards at the time the services were performed and in accordance with the agreement between the Aromas Water District and Municipal Financial Services. This document is governed by the scope of work, dated February 7, 2019, authorized by the Aromas Water District; it is not intended to be relied upon by any other party. We have relied on information or instructions provided by the Aromas Water District and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

This Page Intentionally Blank.

## Appendix A: Historical Water Use Data

---

This Page Intentionally Blank.

**Table A-1**  
**2018 Water Deliveries**  
**All Values in Hundred Cubic Feet (CCF)**

*Values in cubic feet*

Tier 1	January	February	March	April	May	June	July	August	September	October	November	December	Total
Residential	428,379	427,512	410,138	457,219	484,998	475,708	530,083	513,915	486,032	498,908	478,259	419,006	5,610,157
Multi-Unit	10,596	10,191	10,268	10,752	10,877	10,815	11,850	11,644	11,537	10,364	10,502	9,583	128,979
Commercial	8,468	10,362	9,741	11,072	10,073	10,013	10,941	10,693	10,958	12,042	10,934	9,995	125,292
Ldscp/Irrig	1,521	2,661	835	1,413	2,344	2,141	2,318	2,213	2,800	2,800	2,803	1,401	25,250
Bulk Water	700	900	0	160	272	59	2,479	3,901	3,401	3,247	1,637	1,680	18,436
<b>Totals</b>	<b>449,664</b>	<b>451,626</b>	<b>430,982</b>	<b>480,616</b>	<b>508,564</b>	<b>498,736</b>	<b>557,671</b>	<b>542,366</b>	<b>514,728</b>	<b>527,361</b>	<b>504,135</b>	<b>441,665</b>	<b>5,908,114</b>

*Values in cubic feet*

Tier 2	January	February	March	April	May	June	July	August	September	October	November	December	Total
Residential	160,358	183,625	119,231	233,402	372,332	358,567	578,290	486,248	390,045	410,152	311,729	147,410	3,751,389
Multi-Unit	6,972	5,745	7,137	8,642	9,327	8,920	15,001	12,336	9,119	10,523	8,379	5,293	107,394
Commercial	7,974	7,122	8,249	9,008	10,136	11,455	14,841	12,833	13,425	14,962	11,992	9,003	131,000
Ldscp/Irrig	2,032	772	0	0	1,958	2,161	2,765	2,473	2,592	4,136	3,554	1,733	24,176
Bulk Water	463	1,400	0	0	0	0	3,504	6,772	3,462	4,000	116	1,542	21,259
<b>Totals</b>	<b>177,799</b>	<b>198,664</b>	<b>134,617</b>	<b>251,052</b>	<b>393,753</b>	<b>381,103</b>	<b>614,401</b>	<b>520,662</b>	<b>418,643</b>	<b>443,773</b>	<b>335,770</b>	<b>164,981</b>	<b>4,035,218</b>

*Values in cubic feet*

Tier 3	January	February	March	April	May	June	July	August	September	October	November	December	Total
Residential	35,010	33,083	36,998	66,576	254,485	167,573	554,397	347,722	242,881	297,200	115,333	70,899	2,222,157
Multi-Unit	2,612	3,474	1,056	5,321	6,552	5,017	10,783	10,626	6,547	4,380	1,775	1,626	59,769
Commercial	35,459	12,522	32,020	28,470	55,577	41,370	84,602	82,657	85,681	61,868	43,517	19,663	583,406
Ldscp/Irrig	0	0	0	0	28,900	17,900	29,500	27,100	25,300	26,200	15,249	12,092	182,241
Bulk Water	0	1,924	0	0	0	0	5,701	25,625	82,084	33,969	0	2,485	151,788
<b>Totals</b>	<b>73,081</b>	<b>51,003</b>	<b>70,074</b>	<b>100,367</b>	<b>345,514</b>	<b>231,860</b>	<b>684,983</b>	<b>493,730</b>	<b>442,493</b>	<b>423,617</b>	<b>175,874</b>	<b>106,765</b>	<b>3,199,361</b>

*Values in cubic feet*

Totals	January	February	March	April	May	June	July	August	September	October	November	December	Total
Residential	623,747	644,220	566,367	757,197	1,111,815	1,001,848	1,662,770	1,347,885	1,118,958	1,206,260	905,321	637,315	11,583,703
Multi-Unit	20,180	19,410	18,461	24,715	26,756	24,752	37,634	34,606	27,203	25,267	20,656	16,502	296,142
Commercial	51,901	30,006	50,010	48,550	75,786	62,838	110,384	106,183	110,064	88,872	66,443	38,661	839,698
Ldscp/Irrig	3,553	3,433	835	1,413	33,202	22,202	34,583	31,786	30,692	33,136	21,606	15,226	231,667
Bulk Water	1,163	4,224	0	160	272	59	11,684	36,298	88,947	41,216	1,753	5,707	191,483
<b>Totals</b>	<b>700,544</b>	<b>701,293</b>	<b>635,673</b>	<b>832,035</b>	<b>1,247,831</b>	<b>1,111,699</b>	<b>1,857,055</b>	<b>1,556,758</b>	<b>1,375,864</b>	<b>1,394,751</b>	<b>1,015,779</b>	<b>713,411</b>	<b>13,142,693</b>

Summary	January	February	March	April	May	June	July	August	September	October	November	December	Total
ResMult T1	438,975	437,703	420,406	467,971	495,875	486,523	541,933	525,559	497,569	509,272	488,761	428,589	5,739,136
ResMult T2	167,330	189,370	126,368	242,044	381,659	367,487	593,291	498,584	399,164	420,675	320,108	152,703	3,858,783
ResMult T3	37,622	36,557	38,054	71,897	261,037	172,590	565,180	358,348	249,428	301,580	117,108	72,525	2,281,926
Commercial	51,901	30,006	50,010	48,550	75,786	62,838	110,384	106,183	110,064	88,872	66,443	38,661	839,698
Ldscp/Irrig	3,553	3,433	835	1,413	33,202	22,202	34,583	31,786	30,692	33,136	21,606	15,226	231,667
Bulk Water	1,163	4,224	0	160	272	59	11,684	36,298	88,947	41,216	1,753	5,707	191,483
<b>Totals cf</b>	<b>700,544</b>	<b>701,293</b>	<b>635,673</b>	<b>832,035</b>	<b>1,247,831</b>	<b>1,111,699</b>	<b>1,857,055</b>	<b>1,556,758</b>	<b>1,375,864</b>	<b>1,394,751</b>	<b>1,015,779</b>	<b>713,411</b>	<b>13,142,693</b>
Total mgal	5	5	5	6	9	8	14	12	10	10	8	5	98
Total gpd	169,057	169,238	153,402	200,789	301,130	268,278	448,149	375,681	332,027	336,585	245,130	172,162	3,171,629
% of Total	5%	5%	5%	6%	9%	8%	14%	12%	10%	11%	8%	5%	100%

Summary	Total	% of Total
ResMult T1	5,739,136	44%
ResMult T2	3,858,783	29%
ResMult T3	2,281,926	17%
Commercial	839,698	6.4%
Ldscp/Irrig	231,667	1.8%
Bulk Water	191,483	1.5%
<b>Totals</b>	<b>13,142,693</b>	<b>100%</b>



Table A-1  
Historic and Projected Water Deliveries  
All Values in Hundred Cubic Feet (CCF)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	Projected						
	2019	2020	2021	2022	2023	2024	2025									
<b>Deliveries - LTE Off-Peak Average</b>																
Single Family	72,723	69,807	75,976	85,346	76,171	81,213	65,808	64,319	72,247	71,525	70,094	68,692	67,318	65,972	64,653	63,359
Multi Family	5,576	5,041	5,483	5,092	5,532	5,284	4,760	3,677	2,344	2,321	2,274	2,229	2,184	2,140	2,098	2,056
Com/Inst	1,523	1,722	2,097	3,151	2,655	2,354	1,757	2,777	5,447	5,393	5,285	5,179	5,075	4,974	4,874	4,777
Ldscp/Irrig	221	1,647	621	904	452	1,092	491	580	705	698	684	671	657	644	631	619
Other	1,276	592	1,313	311	2,105	1,719	24	81	167	84	79	75	72	68	65	61
<b>Total</b>	<b>81,318</b>	<b>78,809</b>	<b>85,489</b>	<b>94,804</b>	<b>86,916</b>	<b>91,662</b>	<b>72,838</b>	<b>71,435</b>	<b>80,910</b>	<b>80,019</b>	<b>78,417</b>	<b>76,846</b>	<b>75,307</b>	<b>73,798</b>	<b>72,320</b>	<b>70,872</b>
<i>x Other</i>	<i>80,042</i>	<i>78,217</i>	<i>84,176</i>	<i>94,493</i>	<i>84,811</i>	<i>89,943</i>	<i>72,815</i>	<i>71,353</i>	<i>80,732</i>	<i>79,936</i>	<i>78,337</i>	<i>76,770</i>	<i>75,235</i>	<i>73,730</i>	<i>72,256</i>	<i>70,811</i>
<b>Deliveries - GT Off-Peak Average</b>																
Single Family	45,718	45,889	45,135	52,925	41,362	23,927	35,695	45,684	43,951	42,632	41,353	40,113	38,910	37,742	36,610	35,512
Multi Family	1,591	850	1,319	1,715	802	590	736	1,005	619	613	607	601	595	589	583	577
Com/Inst	2,495	2,107	2,909	3,330	2,600	1,820	2,059	2,548	2,951	2,892	2,805	2,721	2,639	2,560	2,483	2,409
Ldscp/Irrig	2,628	1,484	1,336	1,413	1,219	1,130	1,400	1,427	1,611	1,578	1,531	1,485	1,441	1,397	1,355	1,315
Other	793	319	3,189	1,091	2,272	365	41	423	1,749	350	332	316	300	285	271	257
<b>Total</b>	<b>53,224</b>	<b>50,649</b>	<b>53,887</b>	<b>60,474</b>	<b>48,254</b>	<b>27,832</b>	<b>39,930</b>	<b>51,087</b>	<b>50,881</b>	<b>48,066</b>	<b>46,629</b>	<b>45,235</b>	<b>43,884</b>	<b>42,573</b>	<b>41,302</b>	<b>40,069</b>
<i>x Other</i>	<i>52,431</i>	<i>50,330</i>	<i>50,698</i>	<i>59,383</i>	<i>45,982</i>	<i>27,467</i>	<i>39,889</i>	<i>50,664</i>	<i>49,132</i>	<i>47,716</i>	<i>46,296</i>	<i>44,920</i>	<i>43,584</i>	<i>42,289</i>	<i>41,032</i>	<i>39,812</i>
<b>Total Deliveries</b>																
Single Family	118,440	115,696	121,110	138,270	117,533	105,140	101,503	110,003	116,198	114,157	111,448	108,805	106,228	103,714	101,262	98,871
Multi Family	7,167	5,891	6,801	6,806	6,334	5,874	5,495	4,682	2,963	2,933	2,881	2,829	2,779	2,729	2,680	2,633
Com/Inst	4,018	3,829	5,006	6,482	5,255	4,174	3,815	5,325	8,398	8,285	8,090	7,900	7,715	7,534	7,358	7,186
Ldscp/Irrig	2,848	3,131	1,957	2,318	1,671	2,222	1,890	2,007	2,316	2,277	2,215	2,156	2,098	2,041	1,987	1,933
Other	2,068	911	4,502	1,402	4,377	2,084	65	504	1,916	433	412	391	372	353	335	319
<b>Total</b>	<b>134,541</b>	<b>129,458</b>	<b>139,376</b>	<b>155,278</b>	<b>135,170</b>	<b>119,494</b>	<b>112,768</b>	<b>122,521</b>	<b>131,791</b>	<b>128,085</b>	<b>125,045</b>	<b>122,081</b>	<b>119,191</b>	<b>116,372</b>	<b>113,623</b>	<b>110,941</b>
<b>Total, round to \$100</b>	<b>134,500</b>	<b>129,500</b>	<b>139,400</b>	<b>155,300</b>	<b>135,200</b>	<b>119,500</b>	<b>112,800</b>	<b>122,500</b>	<b>131,800</b>	<b>128,100</b>	<b>125,000</b>	<b>122,100</b>	<b>119,200</b>	<b>116,400</b>	<b>113,600</b>	<b>110,900</b>
<i>x Other</i>	<i>132,473</i>	<i>128,547</i>	<i>134,874</i>	<i>153,876</i>	<i>130,793</i>	<i>117,410</i>	<i>112,703</i>	<i>122,017</i>	<i>129,875</i>	<i>127,652</i>	<i>124,634</i>	<i>121,690</i>	<i>118,819</i>	<i>116,019</i>	<i>113,287</i>	<i>110,623</i>
<b>Total Annual % Change</b>					0.5%	-11.6%	-5.6%	8.6%	7.6%	-2.8%	-2.4%	-2.4%	-2.4%	-2.4%	-2.4%	-2.4%
<i>Source: District Regulatory Filings</i>																
<i>Projected % Reduction in Use is applied to the previous years' use.</i>																
<b>LTE Annual Average Projected % Reduction in Use</b>																
Single Family					1.0%	1.0%	1.0%	1.0%	0.5%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Multi Family					1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Com/Inst					2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Ldscp/Irrig					2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Other					1.0%	1.0%	1.0%	1.0%	1.0%	50.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
<b>GT Annual Average Projected % Reduction in Use</b>																
Single Family					3.0%	3.0%	3.0%	3.0%	1.5%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Multi Family					1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Com/Inst					3.0%	3.0%	3.0%	3.0%	1.5%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Ldscp/Irrig					3.0%	3.0%	3.0%	3.0%	1.5%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Other					1.0%	1.0%	1.0%	1.0%	1.0%	80.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

*Source: District Regulatory Filings*

*cumulative reduction FY20 - FY25 >*

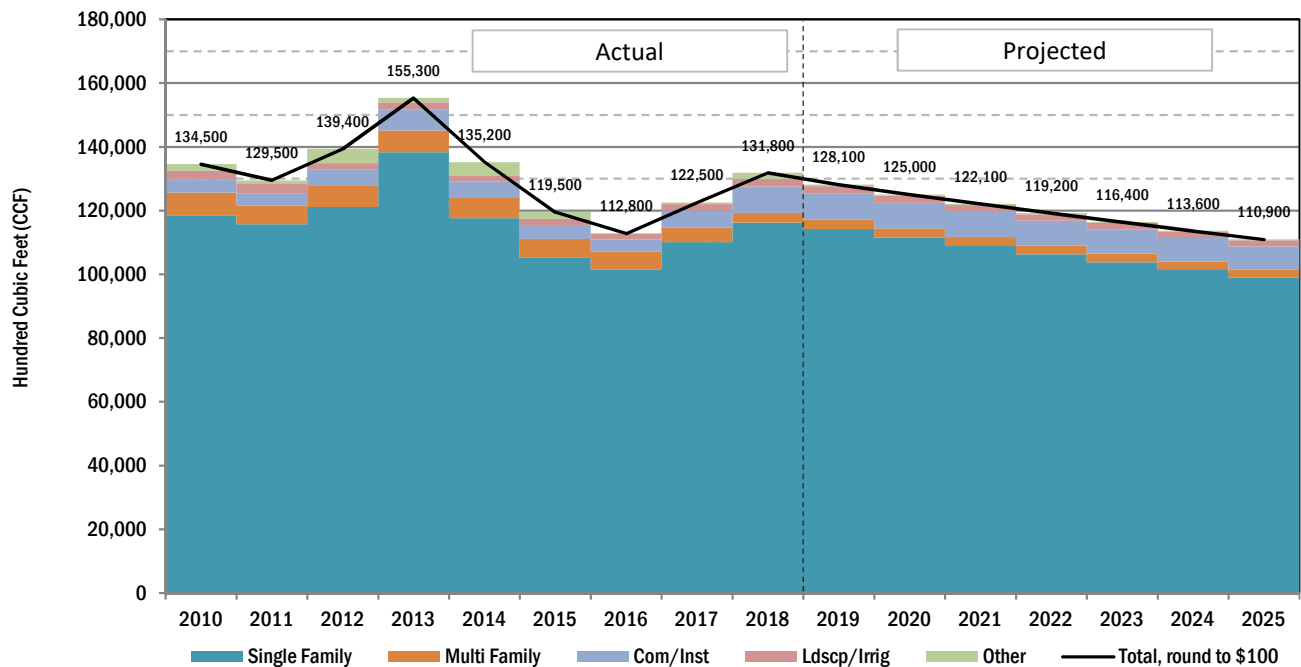
*Projected % Reduction in Use is applied to the previous years' use.*

**LTE Annual Average Projected % Reduction in Use**

Single Family					1.0%	1.0%	1.0%	1.0%	0.5%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Multi Family					1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Com/Inst					2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Ldscp/Irrig					2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Other					1.0%	1.0%	1.0%	1.0%	1.0%	50.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

**GT Annual Average Projected % Reduction in Use**

Single Family					3.0%	3.0%	3.0%	3.0%	1.5%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Multi Family					1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Com/Inst					3.0%	3.0%	3.0%	3.0%	1.5%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Ldscp/Irrig					3.0%	3.0%	3.0%	3.0%	1.5%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Other					1.0%	1.0%	1.0%	1.0%	1.0%	80.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%



## Appendix B: Customer Characteristics Data

---

This Page Intentionally Blank.

Table B-1  
 Current and Projected Meters (Billable)

Customer Class	Current	Projected Fiscal Year					
	FY19	FY20	FY21	FY22	FY23	FY24	FY25
<b>Single Family</b>							
5/8 x 3/4-inch	921	921	921	921	921	921	921
1-inch							
1½-inch							
2-inch							
<b>Total Single Family</b>	<b>921</b>	<b>921</b>	<b>921</b>	<b>921</b>	<b>921</b>	<b>921</b>	<b>921</b>
<b>Multi Family</b>							
5/8 x 3/4-inch	19	19	19	19	19	19	19
1-inch							
1½-inch							
2-inch	1	1	1	1	1	1	1
<b>Total Multi Family</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>
<b>Commercial</b>							
5/8 x 3/4-inch	22	22	22	22	22	22	22
1-inch	1	1	1	1	1	1	1
1½-inch	1	1	1	1	1	1	1
2-inch	2	2	2	2	2	2	2
<b>Total Commercial</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>
<b>Irrigation</b>							
5/8 x 3/4-inch	6	6	6	6	6	6	6
1-inch	1	1	1	1	1	1	1
1½-inch							
2-inch	1	1	1	1	1	1	1
<b>Total Irrigation</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>All Billable Meters</b>							
5/8 x 3/4-inch	968	968	968	968	968	968	968
1-inch	2	2	2	2	2	2	2
1½-inch	1	1	1	1	1	1	1
2-inch	4	4	4	4	4	4	4
<b>Total All Billable Meters</b>	<b>975</b>	<b>975</b>	<b>975</b>	<b>975</b>	<b>975</b>	<b>975</b>	<b>975</b>

Table B-2  
 Projected Water Use, CCF

Customer Class	Current	Recommended	Projected Fiscal Year						
			FY19	FY20	FY21	FY22	FY23	FY24	FY25
<b>Single Family</b>	<i>T2: 9-30</i>	<i>T2: 6-20</i>							
Tier 1	56%	49%	55,384	54,070	52,788	51,538	50,318	49,129	47,968
Tier 2	33%	32%	36,991	36,113	35,257	34,422	33,607	32,813	32,038
Tier 3	11%	19%	21,782	21,265	20,760	20,269	19,789	19,321	18,865
<b>Total Single Family</b>			<b>114,157</b>	<b>111,448</b>	<b>108,805</b>	<b>106,228</b>	<b>103,714</b>	<b>101,262</b>	<b>98,871</b>
<b>Multi Family</b>	<i>T2: 9-30</i>	<i>T2: 6-20</i>							
Tier 1	56%	49%	1,423	1,398	1,373	1,348	1,324	1,300	1,277
Tier 2	33%	32%	951	933	917	900	884	869	853
Tier 3	11%	19%	560	550	540	530	521	511	502
<b>Total Multi Family</b>			<b>2,933</b>	<b>2,881</b>	<b>2,829</b>	<b>2,779</b>	<b>2,729</b>	<b>2,680</b>	<b>2,633</b>
<b>Commercial</b>									
Tier 1									
Tier 2									
Tier 3									
<b>Total Commercial</b>			<b>8,285</b>	<b>8,090</b>	<b>7,900</b>	<b>7,715</b>	<b>7,534</b>	<b>7,358</b>	<b>7,186</b>
<b>Irrigation</b>									
Tier 1									
Tier 2									
Tier 3									
<b>Total Irrigation</b>			<b>2,277</b>	<b>2,215</b>	<b>2,156</b>	<b>2,098</b>	<b>2,041</b>	<b>1,987</b>	<b>1,933</b>
<b>All Billable Meters</b>									
Tier 1			56,808	55,468	54,161	52,886	51,642	50,429	49,246
Tier 2			37,941	37,046	36,173	35,322	34,491	33,681	32,891
Tier 3			22,341	21,814	21,300	20,799	20,310	19,833	19,367
<b>Total All Billable Meters</b>			<b>127,652</b>	<b>124,634</b>	<b>121,690</b>	<b>118,819</b>	<b>116,019</b>	<b>113,287</b>	<b>110,623</b>
<b>Annual Change</b>									
CCF				(3,018)	(2,944)	(2,871)	(2,800)	(2,731)	(2,664)
% Annual				-2.4%	-2.4%	-2.4%	-2.4%	-2.4%	-2.4%
% Cumulative				-2.4%	-4.7%	-6.9%	-9.1%	-11.3%	-13.3%

## Appendix C: Financial Reserves Policy

---

This Page Intentionally Blank.

# Aromas Water District Resolution 2014-1 Adopting Financial Reserves Policy

## **Purpose:**

The purpose of the Reserves policy for *AROMAS WATER DISTRICT* is to ensure the stability of the mission, programs, employment, and ongoing operations of the organization and to provide a source of internal funds for organizational priorities such as building repair and improvement, capital projects, emergencies, program opportunity, and capacity building.

The Reserves policy will be implemented in concert with the other governance and financial policies of *AROMAS WATER DISTRICT* and is intended to support the goals and strategies contained in these related policies and in strategic and operational plans.

## **Definitions and Goals:**

### Types of Reserves

The **Operating Reserve** is intended to provide an internal source of funds for situations such as a sudden increase in expenses, one-time unbudgeted expenses, unanticipated loss in funding, or uninsured losses. Operating Reserves are not intended to replace a permanent loss of funds or eliminate an ongoing budget gap. It is the intention of *AROMAS WATER DISTRICT* for Operating Reserves to be used and replenished within a reasonably short period of time. The Operating Reserve Fund is defined as the designated fund set aside by action of the Board of Directors.

The target minimum Operating Reserve Fund is equal to three months of average operating costs. The calculation of average monthly operating costs includes all recurring, predictable expenses such as salaries and benefits, occupancy, office, travel, program, and ongoing professional services. Depreciation, in-kind, and other non-cash expenses are not included in the calculation. The calculation of average monthly expenses also excludes one-time or unusual capital expenses.

The amount of the Operating Reserve fund target minimum will be calculated each year after approval of the annual budget, reported to the Board of Directors, and included in the regular financial reports.

The District should consider the level of needed unrestricted fund balance in order to have sufficient unrestricted operation or working capital to provide cash to cover cash balance fluctuations on a month to month basis. Typically this minimum cash balance would be a minimum of 60 days to a maximum of 180 days of its annual operation expenses. For Aromas Water District that unrestricted amount would be between \$150,000 and \$300,000.

The **Capital Emergency Reserve** is intended to handle costs associated with system failures due to unplanned or catastrophic events. The District should consider if it is prudent to establish and maintain a reserve to handle such events. Methods used to



calculate could be (1) a small percent of overall assets (such as 2% of total assets) or (2) the cost of the items at most risk/most vulnerable component of the system (say a specific pumping station, key water transmission line or water storage site). An Emergency Reserve at 2% of total assets would be about \$125,000. For replacement estimates, the District should consider potential catastrophic failures to the most vulnerable parts of the system. For example, during a major earthquake, this could include storage tank replacement, well loss and multiple water line ruptures. The estimates here could easily exceed \$500,000.

The **Capital Funding Reserve** would typically have projections out to 15 to 30 years, and include a plan for ongoing funding and use of the reserve funds. This fund does not have a rule of thumb as the two reserves above; the reserve needs to be specific to the planned rehabilitation of infrastructure and needed capital improvements.

Once the reserves are determined annual resolutions should be made to designate funds in accordance with the policy and in relation to planned capital improvements as recommended in the Strategic Plan.

### **Funding of Reserves:**

The Reserve funds will be funded with surplus unrestricted operating funds. The Board of Directors may from time to time direct that a specific source of revenue be set aside for the Reserves. Examples could include one-time gifts or bequests, special grants, or special assessments.

### **Use of Reserves:**

Use of the Reserves requires three steps:

#### 1. Identification of appropriate use of reserve funds.

The General Manager and staff will identify the need for access reserve funds and confirm that the use is consistent with the purpose of the reserves as described in this Policy. This step requires analysis of the reason for the shortfall, the availability of any other sources of funds before using reserves, and evaluation of the time period that the funds will be needed and replenished.

#### 2. Authority to use Reserves.

Authority for use of up to 20% of Reserves is delegated to the General Manager in consultation with the President of the Board of Directors. The use of Reserves will be reported to the Executive Committee/Board of Directors at their next scheduled meeting, accompanied by a description of the analysis and determination of the use of funds and plans for replenishment to restore the Reserve fund to the target minimum amount. The General Manager must receive prior approval from the Board of Directors for use of Reserves in excess of 20%

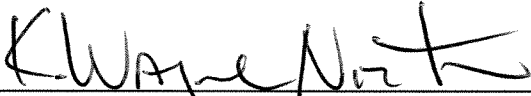
3. Reporting and monitoring.

The General Manager is responsible for assuring that the Reserve funds are maintained and used only as described in this Policy. Upon approval for the use of Reserve funds, the General Manager will maintain records of the use of funds and plan for replenishment, if required. He/she will provide regular reports to the Board of Directors of progress to restore the fund to the target minimum amount, if required.

**Review of Policy:**

This Policy will be reviewed every 5 years or sooner if warranted by internal or external events or changes. Changes to the Policy will be recommended by the General Manager and approved by the Board of Directors.

Approved:

  
\_\_\_\_\_  
Director K. WAYNE NORTON, PRESIDENT

I hereby certify that the foregoing Resolution was duly passed and adopted by the Board of Directors of the Aromas Water District at a legal meeting held on the 28th day of January, 2014 by the following vote:

Ayes: HOLMAN, MAHLER, DUTRA, NORTON, LEAP

Noes: NONE

Absent: NONE

In Witness Hereof, I have hereunto set my hand and affixed the official seal of the Aromas Water District.

  
\_\_\_\_\_  
Lisa Dobbins, District Secretary



This Page Intentionally Blank.

## Appendix D: Water Fees Development Tables

---

This Page Intentionally Blank.

Table D-1  
Expenditures, \$

Expense Category	Budget FY19	Proj. Cost Esc.	Budget FY19	Projected Fiscal Year						Total FY20 - FY25
				FY20	FY21	FY22	FY23	FY24	FY25	
<b>Operating Expenses</b>										
Administrative & General	76,125	3%	76,125	78,409	80,761	83,184	85,679	88,250	90,897	583,305
Debt Payments	147,257	na	147,257	147,257	147,257	110,437	110,437	110,437	110,437	883,519
Communications	11,200	3%	11,200	15,244	15,701	16,172	16,658	17,157	17,672	109,804
Payroll	439,114	3%	439,114	452,287	465,856	479,832	494,227	509,054	524,325	3,364,694
Employee Costs	170,840	3%	170,840	175,965	181,244	186,682	192,282	198,050	203,992	1,309,055
Office	22,000	3%	22,000	22,660	23,340	24,040	24,761	25,504	26,269	168,574
Operations	106,500	3%	106,500	109,695	112,986	116,376	119,867	123,463	127,167	816,053
Power	71,250	3%	71,250	73,388	75,589	77,857	80,193	82,598	85,076	545,950
<b>Total Operating Expenses</b>	<b>1,044,286</b>		<b>1,044,286</b>	<b>1,074,905</b>	<b>1,102,734</b>	<b>1,094,579</b>	<b>1,124,103</b>	<b>1,154,513</b>	<b>1,185,835</b>	<b>7,780,955</b>
<b>Capital Expenses</b>										
Capital Projects Expense/Reserve	153,000	na	153,000	174,000	405,000	405,000	275,000	75,000	650,000	2,137,000
Capital Emergency Reserve	0	na	0	80,000	80,000	80,000	80,000	80,000	80,000	480,000
Loan Prepayment Reserve	0	na	0	0	0	50,000	50,000	50,000	50,000	200,000
<b>Total Capital Expenses</b>	<b>153,000</b>		<b>153,000</b>	<b>254,000</b>	<b>485,000</b>	<b>535,000</b>	<b>405,000</b>	<b>205,000</b>	<b>780,000</b>	<b>2,817,000</b>
<b>Total Operating &amp; Capital Expenses</b>	<b>1,197,286</b>		<b>1,197,286</b>	<b>1,328,905</b>	<b>1,587,734</b>	<b>1,629,579</b>	<b>1,529,103</b>	<b>1,359,513</b>	<b>1,965,835</b>	<b>10,597,955</b>
<b>Other Impacts (Credits)</b>										
Bulk Water	(15,000)	0%	(2,123)	(2,626)	(2,704)	(2,773)	(2,838)	(2,901)	(2,880)	(18,845)
Connection	(13,300)	na	0	0	0	0	0	0	0	0
Oakridge/OAWA Assmt										
Tax Receipts	(66,000)	0%	(66,000)	(66,000)	(66,000)	(66,000)	(66,000)	(66,000)	(66,000)	(462,000)
Miscellaneous	(2,000)	0%	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(14,000)
Interest	(17,000)	0%	(17,000)	(17,000)	(17,000)	(17,000)	(17,000)	(17,000)	(17,000)	(119,000)
Grants	(2,600)	na	0	0	0	0	0	0	0	0
<b>Total Other Impacts (Credits)</b>	<b>(115,900)</b>		<b>(87,123)</b>	<b>(87,626)</b>	<b>(87,704)</b>	<b>(87,773)</b>	<b>(87,838)</b>	<b>(87,901)</b>	<b>(87,880)</b>	<b>(613,845)</b>
<b>Add/(Use) Fund Balance</b>										
Revenue Required from Rates	1,081,386		1,110,163	1,241,279	1,500,030	1,541,806	1,441,265	1,271,612	1,877,955	9,984,110
<b>Annual Change in Revenue Requirements</b>										
Dollars			28,777	131,116	258,751	41,776	(100,541)	(169,653)	606,343	
Percent			0%	11%	19%	3%	-6%	-11%	45%	

Table D-2  
 "Plant in Service" Factors

Plant in Service, \$	Replacement Values [1]	Base (BASE)	Extra Capacity (CAP)	Fire Protection (FP)	Meters and Service Lat. (MTR)	Customer (CUS)	Basis of Allocation				
							(BASE)	(CAP)	(FP)	(MTR)	(CUS)
Wells	2,000,000	1,380,000	220,000	400,000			69% BASE	11% CAP	20% PFP		
Pumps	400,000	188,000	84,000	128,000			47% BASE	21% CAP	32% PFP		
Treatment	850,000	586,500	93,500	170,000			69% BASE	11% CAP	20% PFP		
Storage	1,475,000	693,250	309,750	472,000			47% BASE	21% CAP	32% PFP		
Transmission Mains	13,925,000	6,544,750	2,924,250	4,456,000			47% BASE	21% CAP	32% PFP		
Distribution Lines	7,211,000	3,389,170	1,514,310	2,307,520			47% BASE	21% CAP	32% PFP		
Hydrants	1,183,000			1,183,000					100% PFP		
Meters	717,750				717,750					100% MTR	
Service Laterals	2,392,500				2,392,500					100% MTR	
Buildings	650,000					650,000					100% CUS
<b>Total</b>	<b>30,804,250</b>	<b>12,781,670</b>	<b>5,145,810</b>	<b>9,116,520</b>	<b>3,110,250</b>	<b>650,000</b>					
% of Total		41%	17%	30%	10%	2%	"Plant in Service" Factors				

[1] Replacement values were developed by the District.

Table D-3  
Functional Allocation of Revenue Requirements, \$

Item	Projected FY19	Base (BASE)	Extra Capacity (CAP)	Fire Protection (FP)	Meters and Service Lat. (MTR)	Customer (CUS)	Basis of Allocation [1,2]
<b>Operating Expenses</b>							
Administrative & General	76,125	31,587	12,717	22,529	7,686	1,606	"Plant in Service" Factors
Debt Payments	147,257	61,102	24,599	43,581	14,868	3,107	"Plant in Service" Factors
Communications	11,200	4,647	1,871	3,315	1,131	236	"Plant in Service" Factors
Payroll	439,114	182,202	73,353	129,956	44,337	9,266	"Plant in Service" Factors
Employee Costs	170,840	70,887	28,539	50,560	17,249	3,605	"Plant in Service" Factors
Office	22,000	0	0	0	0	22,000	100% CUS
Operations	106,500	44,190	17,791	31,519	10,753	2,247	"Plant in Service" Factors
Power	71,250	42,750	28,500	0	0	0	"Power" Factors
<b>Total Operating Expenses</b>	<b>1,044,286</b>	<b>437,365</b>	<b>187,369</b>	<b>281,459</b>	<b>96,024</b>	<b>42,068</b>	
<b>Capital Expenses</b>							
Construction	153,000	63,485	25,558	45,280	15,448	3,228	"Plant in Service" Factors
Debt Payment Reserve	0	0	0	0	0	0	"Plant in Service" Factors
Depreciation Reserve	0	0	0	0	0	0	"Plant in Service" Factors
<b>Total Capital Expenses</b>	<b>153,000</b>	<b>63,485</b>	<b>25,558</b>	<b>45,280</b>	<b>15,448</b>	<b>3,228</b>	
<b>Other Impacts (Credits)</b>							
Bulk Water	(2,123)	(2,123)	0	0	0	0	100% BASE
Connection	0	0	0	0	0	0	"Plant in Service" Factors
Oakridge/OAWA Assmt	0	0	0	0	0	0	"Plant in Service" Factors
Tax Receipts	(66,000)	(27,386)	(11,025)	(19,533)	(6,664)	(1,393)	"Plant in Service" Factors
Miscellaneous	(2,000)	0	0	0	0	(2,000)	100% CUS
Interest	(17,000)	(7,054)	(2,840)	(5,031)	(1,716)	(359)	"Plant in Service" Factors
Grants	0	0	0	0	0	0	"Plant in Service" Factors
<b>Total Other Impacts (Credits)</b>	<b>(87,123)</b>	<b>(36,563)</b>	<b>(13,865)</b>	<b>(24,564)</b>	<b>(8,380)</b>	<b>(3,751)</b>	
Revenue Required from Rates	1,110,163	464,287	199,063	302,176	103,092	41,545	
<b>REVENUE REQUIREMENT ALLOCATION</b>		<b>41.8%</b>	<b>17.9%</b>	<b>27.2%</b>	<b>9.3%</b>	<b>3.7%</b>	

Notes:

[1] The "Plant in Service" factors are from Table D-2.

[2] The "Power" factors are based on a 60 percent allocation to Base and 40 percent allocation to Extra Capacity.



Table D-4  
Revenue Requirement Allocations, \$

Expense Category	Cost Allocation	Projected Fiscal Year					Total FY20 - FY24	
		FY20	FY21	FY22	FY23	FY24		
Revenue Required from Rates		1,220,000	1,290,000	1,360,000	1,430,000	1,500,000	1,530,000	6,800,000
Base	42%	510,223	539,498	568,773	598,048	627,323	639,870	2,843,865
Extra Capacity	18%	218,758	231,309	243,861	256,413	268,964	274,344	1,219,305
Fire Protection	27%	332,072	351,126	370,179	389,232	408,286	416,451	1,850,895
Meters/Service Laterals	9%	113,292	119,792	126,293	132,793	139,293	142,079	631,463
Customer	4%	45,655	48,275	50,894	53,514	56,133	57,256	254,472

Notes:

[1] Cost allocation percentages are from Table D-3.

Table D-5  
Unit Costs of Service

Expense Category	Cost Allocation [1]	Projected Fiscal Year					
		FY20	FY21	FY22	FY23	FY24	FY25
<b>Revenue Required from Rates</b>		<b>\$1,220,000</b>	<b>\$1,290,000</b>	<b>\$1,360,000</b>	<b>\$1,430,000</b>	<b>\$1,500,000</b>	<b>\$1,530,000</b>
<b>Base + Extra Capacity</b>							
Revenue Allocation	60%	\$728,981	\$770,807	\$812,634	\$854,461	\$896,288	\$914,213
Units of Use (hundred cubic feet)		125,000	122,100	119,200	116,400	113,600	110,900
Average Commodity Rate (\$/CCF)		\$5.83	\$6.31	\$6.82	\$7.34	\$7.89	\$8.24
<b>Fire Protection</b>							
Revenue Allocation	27%	\$332,072	\$351,126	\$370,179	\$389,232	\$408,286	\$416,451
Units of Use (equivalent meters)		1,010	1,010	1,010	1,010	1,010	1,010
Fire Protection Rate (\$/eq. mtr-month)		\$27.40	\$28.97	\$30.54	\$32.11	\$33.69	\$34.36
<b>Meters/Service Laterals</b>							
Revenue Allocation	9%	\$113,292	\$119,792	\$126,293	\$132,793	\$139,293	\$142,079
Units of Use (equivalent meters)		1,010	1,010	1,010	1,010	1,010	1,010
Meter/Lateral Rate (\$/eq. mtr-month)		\$9.35	\$9.88	\$10.42	\$10.96	\$11.49	\$11.72
<b>Customer</b>							
Revenue Allocation	4%	\$45,655	\$48,275	\$50,894	\$53,514	\$56,133	\$57,256
Units of Use (accounts)		975	975	975	975	975	975
Account Rate (\$/acct-month)		\$3.90	\$4.13	\$4.35	\$4.57	\$4.80	\$4.89

Notes:

[1] Cost allocation percentages are from Table D-3.

Table D-6  
Base Cost Allocations

Expense Category		Projected Fiscal Year					
		FY20	FY21	FY22	FY23	FY24	FY25
<b>Revenue Required from Rates</b>		<b>\$1,220,000</b>	<b>\$1,290,000</b>	<b>\$1,360,000</b>	<b>\$1,430,000</b>	<b>\$1,500,000</b>	<b>\$1,530,000</b>
Base Allocation	42%	\$510,223	\$539,498	\$568,773	\$598,048	\$627,323	\$639,870
	<i>% Revenue Allocation [1]</i>						
Single Family	89.5%	\$456,492	\$482,684	\$508,876	\$535,068	\$561,260	\$572,486
Muli Family	2.3%	\$11,640	\$12,308	\$12,976	\$13,644	\$14,312	\$14,598
Commercial/Instiutional	6.5%	\$32,992	\$34,885	\$36,778	\$38,671	\$40,564	\$41,375
Landscape Irrigation	1.8%	\$9,099	\$9,621	\$10,143	\$10,665	\$11,187	\$11,410

Notes:

[1] Cost allocation percentages are based on average daily use during 2018.

Table D-7  
Extra Capacity Cost Allocations

Expense Category		Projected Fiscal Year					
		FY20	FY21	FY22	FY23	FY24	FY25
<b>Revenue Required from Rates</b>		<b>\$1,220,000</b>	<b>\$1,290,000</b>	<b>\$1,360,000</b>	<b>\$1,430,000</b>	<b>\$1,500,000</b>	<b>\$1,530,000</b>
Extra Capacity Allocation	18%	\$218,758	\$231,309	\$243,861	\$256,413	\$268,964	\$274,344
	<i>% Revenue Allocation [1]</i>						
Single Family	88.7%	\$194,062	\$205,197	\$216,332	\$227,466	\$238,601	\$243,373
Muli Family	2.0%	\$4,388	\$4,640	\$4,892	\$5,144	\$5,395	\$5,503
Commercial/Instiutional	7.1%	\$15,461	\$16,349	\$17,236	\$18,123	\$19,010	\$19,390
Landscape Irrigation	2.2%	\$4,846	\$5,124	\$5,402	\$5,680	\$5,958	\$6,077

Notes:

[1] Cost allocation percentages are based on maximum month use during 2018.

Table D-8  
Single Family and Multi Family Water Use Fees

Expense Category	Projected Fiscal Year					
	FY20	FY21	FY22	FY23	FY24	FY25
<b>Revenue Allocation</b>						
<b>Single Family</b>						
Base	\$456,492	\$482,684	\$508,876	\$535,068	\$561,260	\$572,486
Extra Capacity	\$194,062	\$205,197	\$216,332	\$227,466	\$238,601	\$243,373
<b>Total</b>	<b>\$650,554</b>	<b>\$687,881</b>	<b>\$725,208</b>	<b>\$762,535</b>	<b>\$799,862</b>	<b>\$815,859</b>
<b>Multi Family</b>						
Base	\$11,640	\$12,308	\$12,976	\$13,644	\$14,312	\$14,598
Extra Capacity	\$4,388	\$4,640	\$4,892	\$5,144	\$5,395	\$5,503
<b>Total</b>	<b>\$16,029</b>	<b>\$16,948</b>	<b>\$17,868</b>	<b>\$18,788</b>	<b>\$19,707</b>	<b>\$20,101</b>
<b>Single / Multi Family</b>						
Base	\$468,132	\$494,992	\$521,852	\$548,712	\$575,572	\$587,084
Extra Capacity	\$198,450	\$209,837	\$221,223	\$232,610	\$243,996	\$248,876
<b>Total Single / Multi Family</b>	<b>\$666,583</b>	<b>\$704,829</b>	<b>\$743,076</b>	<b>\$781,322</b>	<b>\$819,569</b>	<b>\$835,960</b>
<b>Water Use Fees</b>						
<b>Customer Class Average</b>						
Revenue Allocation	\$666,583	\$704,829	\$743,076	\$781,322	\$819,569	\$835,960
Single Family	111,448	108,805	106,228	103,714	101,262	98,871
Multi Family	2,881	2,829	2,779	2,729	2,680	2,633
Units of Use (hundred cubic feet)	114,328	111,634	109,007	106,443	103,943	101,504
Average Commodity Rate (\$/ccf)	\$5.84	\$6.32	\$6.82	\$7.35	\$7.89	\$8.24
<b>Three-Tiers [1]</b>						
<b>Tier 1 Revenue Allocation</b>						
Single Family	54,070	52,788	51,538	50,318	49,129	47,968
Multi Family	1,398	1,373	1,348	1,324	1,300	1,277
Units of Use (hundred cubic feet)	55,468	54,161	52,886	51,642	50,429	49,246
Average Commodity Rate (\$/ccf)	\$3.97	\$4.30	\$4.64	\$5.00	\$5.37	\$5.61
<b>Tier 2 Revenue Allocation</b>						
Single Family	36,113	35,257	34,422	33,607	32,813	32,038
Multi Family	933	917	900	884	869	853
Units of Use (hundred cubic feet)	37,046	36,173	35,322	34,491	33,681	32,891
Average Commodity Rate (\$/ccf)	\$6.70	\$7.26	\$7.84	\$8.44	\$9.06	\$9.47
<b>Tier 3 Revenue Allocation</b>						
Single Family	21,265	20,760	20,269	19,789	19,321	18,865
Multi Family	550	540	530	521	511	502
Units of Use (hundred cubic feet)	21,814	21,300	20,799	20,310	19,833	19,367
Average Commodity Rate (\$/ccf)	\$9.10	\$9.86	\$10.64	\$11.46	\$12.31	\$12.86

Table D-9  
Commercial/Institutional/Landscape Water Use Fees

Expense Category	Projected Fiscal Year					
	FY20	FY21	FY22	FY23	FY24	FY25
<b>Multiple Family</b>						
Base	\$11,640	\$12,308	\$12,976	\$13,644	\$14,312	\$14,598
Extra Capacity	\$4,388	\$4,640	\$4,892	\$5,144	\$5,395	\$5,503
Total	\$16,029	\$16,948	\$17,868	\$18,788	\$19,707	\$20,101
<b>Water Use Fees</b>						
<b>Customer Class Average</b>						
Revenue Allocation	\$16,029	\$16,948	\$17,868	\$18,788	\$19,707	\$20,101
Units of Use (CCF)	2,881	2,829	2,779	2,729	2,680	2,633
Average Commodity Rate (\$/CCF)	\$5.57	\$6.00	\$6.44	\$6.89	\$7.36	\$7.64
<b>Commercial/Institutional</b>						
Base	\$32,992	\$34,885	\$36,778	\$38,671	\$40,564	\$41,375
Extra Capacity	\$15,461	\$16,349	\$17,236	\$18,123	\$19,010	\$19,390
Total	\$48,454	\$51,234	\$54,014	\$56,794	\$59,574	\$60,766
<b>Water Use Fees</b>						
<b>Customer Class Average</b>						
Revenue Allocation	\$48,454	\$51,234	\$54,014	\$56,794	\$59,574	\$60,766
Units of Use (CCF)	8,090	7,900	7,715	7,534	7,358	7,186
Average Commodity Rate (\$/CCF)	\$5.99	\$6.49	\$7.01	\$7.54	\$8.10	\$8.46
<b>Landscape</b>						
Base	\$9,099	\$9,621	\$10,143	\$10,665	\$11,187	\$11,410
Extra Capacity	\$4,846	\$5,124	\$5,402	\$5,680	\$5,958	\$6,077
Total	\$13,944	\$14,744	\$15,544	\$16,345	\$17,145	\$17,488
<b>Water Use Fees</b>						
<b>Customer Class Average</b>						
Revenue Allocation	\$13,944	\$14,744	\$15,544	\$16,345	\$17,145	\$17,488
Units of Use (CCF)	2,215	2,156	2,098	2,041	1,987	1,933
Average Commodity Rate (\$/CCF)	\$6.30	\$6.84	\$7.41	\$8.01	\$8.63	\$9.05
<b>Nonresidential (Commercial/Institutional/Landscape)</b>						
Base	\$42,091	\$44,506	\$46,921	\$49,336	\$51,751	\$52,786
Extra Capacity	\$20,307	\$21,472	\$22,638	\$23,803	\$24,968	\$25,467
Total	\$62,398	\$65,978	\$69,558	\$73,139	\$76,719	\$78,253
<b>Water Use Fees</b>						
<b>Customer Class Average</b>						
Revenue Allocation	#####	\$62,398	\$65,978	\$69,558	\$73,139	\$76,719
Units of Use (CCF)	6,150	10,305	10,056	9,813	9,345	9,119
Average Commodity Rate (\$/CCF)	\$6.07	\$6.06	\$6.57	\$7.09	\$8.22	\$8.59

Notes:

[1] Cost allocation percentages are from Table D-6 and Table D-7.

Table D-10  
Base Rate Fees

Expense Category	Projected Fiscal Year						
	FY20	FY21	FY22	FY23	FY24	FY25	
<b>Unit Costs</b>							
Fire Protection Rate (\$/eq. mtr-month)	\$27.40	\$28.97	\$30.54	\$32.11	\$33.69	\$34.36	
Meter/Lateral Rate (\$/eq. mtr-month)	\$9.35	\$9.88	\$10.42	\$10.96	\$11.49	\$11.72	
Account Rate (\$/acct-month)	\$3.90	\$4.13	\$4.35	\$4.57	\$4.80	\$4.89	
<b>Base Rate Fees</b>							
Meter Size	<i>Meter Ratio</i>						
5/8 x 3/4-inch	1.0	\$40.60	\$43.00	\$45.30	\$47.60	\$50.00	\$51.00
1-inch	2.5	\$96.00	\$101.00	\$107.00	\$112.00	\$118.00	\$120.00
1½-inch	5.0	\$188.00	\$198.00	\$209.00	\$220.00	\$231.00	\$235.00
2-inch	8.0	\$298.00	\$315.00	\$332.00	\$349.00	\$366.00	\$374.00
3-inch	17.5	\$647.00	\$684.00	\$721.00	\$758.00	\$795.00	\$811.00
4-inch	30.0	\$1,106.00	\$1,170.00	\$1,233.00	\$1,297.00	\$1,360.00	\$1,387.00
6-inch	62.5	\$2,300.00	\$2,430.00	\$2,560.00	\$2,700.00	\$2,830.00	\$2,890.00

Notes:

[1] Unit costs are from Table D-5.

## Appendix E: Water Capacity Charges Development Tables



This Page Intentionally Blank.

Table E-1

## List of Assets and Estimated Replacement Values

Item	Category	Description	Count	Units	Unit Cost	Total Cost
1	Wells	San Juan Well/Building	1	each	\$700,000	\$700,000
2	Wells	Carpenteria	1	each	\$400,000	\$400,000
3	Wells	Pleasant Acres	1	each	\$500,000	\$500,000
4	Wells	Marshall(inactive)	1	each	\$400,000	\$400,000
5	Treatment	San Juan Treatment Plant and Tank	1	each	\$400,000	\$400,000
6	Pumps	Seely Cole 4-25 hp	1	each	\$350,000	\$350,000
7	Pumps	Seely/Rea 10 & 15 hp	1	each	\$150,000	\$150,000
8	Pumps	Leo Pump Station 4-5 hp	1	each	\$150,000	\$150,000
9	Pumps	Carr Station/Building 2-20hp	1	each	\$200,000	\$200,000
10	Pump Station	Upper Oakridge Booster 1-2 hp	1	each	\$32,110	\$32,000
11	Pump Station	Lower Oakridge Booster 2-15 hp	1	each	\$68,513	\$69,000
12	Telemetry	XiO H/W & S/W Monitor & control	1	each	\$24,105	\$24,000
13	Telemetry	SCADA	1	each	\$250,000	\$250,000
14	Storage	Carr-214,000 gallons	1	each	\$250,000	\$250,000
15	Storage	Cole -214,000 gallons	1	each	\$250,000	\$250,000
16	Storage	RLS 240,000 gallons	1	each	\$275,000	\$275,000
17	Storage	Rea 214,000 gallons	1	each	\$250,000	\$250,000
18	Storage	Pinetree 214,000 gallons	1	each	\$250,000	\$250,000
19	Storage	Ballantree 15,000 gallons	2	each	\$50,000	\$100,000
20	Storage	School 15,000 gallons	2	each	\$50,000	\$100,000
21	Transmission Mains	4-inch diameter	3,000	lineal feet	\$110	\$330,000
22	Transmission Mains	6-inch diameter	24,100	lineal feet	\$110	\$2,651,000
23	Transmission Mains	8-inch diameter	38,285	lineal feet	\$130	\$4,977,000
24	Transmission Mains	10-inch diameter	26,550	lineal feet	\$140	\$3,717,000
25	Transmission Mains	12-inch diameter	15,000	lineal feet	\$150	\$2,250,000
26	Distribution Lines	other	350	lineal feet	\$110	\$39,000
27	Distribution Lines	4-inch diameter	6,750	lineal feet	\$110	\$743,000
28	Distribution Lines	6-inch diameter	46,820	lineal feet	\$110	\$5,150,000
29	Distribution Lines	8-inch diameter	2,000	lineal feet	\$130	\$260,000
30	Distribution Lines	10-inch diameter	7,281	lineal feet	\$140	\$1,019,000
31	Hydrants		182	each	\$6,500	\$1,183,000
32	Meters		957	each	\$750	\$717,800
33	Service Laterals		957	each	\$2,500	\$2,392,500
34	Buildings	388 Blohm Avenue	1	lot	\$500,000	\$500,000
35	Buildings	Marshall Operations Center	1	lot	\$150,000	\$150,000
<b>Total</b>						<b>\$31,179,300</b>

Table E-2  
 Estimated Revenue from Capacity Charges

Fiscal Year	Revenue [1]	Time Value Factor [2]			Adjusted Revenue
		Annual %	Year	Factor	
FY19	\$0	3.0%	0	1.00	\$0
FY18	\$51,560	3.0%	1	1.03	\$53,107
FY17	\$0	3.0%	2	1.06	\$0
FY16	\$12,790	3.0%	3	1.09	\$13,976
FY15	\$577,005	3.0%	4	1.13	\$649,424
FY14	\$32,529	3.0%	5	1.16	\$37,710
FY13	\$10,843	3.0%	6	1.19	\$12,947
FY12	\$0	3.0%	7	1.23	\$0
FY11	\$20,362	3.0%	8	1.27	\$25,794
FY10	\$28,678	3.0%	9	1.30	\$37,418
FY09	\$107,712	3.0%	10	1.34	\$144,756
FY08	\$32,459	3.0%	11	1.38	\$44,931
FY07	\$25,609	3.0%	12	1.43	\$36,512
FY06	\$20,980	3.0%	13	1.47	\$30,810
FY05	\$311,700	3.0%	14	1.51	\$471,474
FY04	\$15,000	3.0%	15	1.56	\$23,370
FY03	\$4,200	3.0%	16	1.60	\$6,740
FY02	\$61,230	3.0%	17	1.65	\$101,204
FY01	\$30,351	3.0%	18	1.70	\$51,671
FY00	\$727,600	3.0%	19	1.75	\$1,275,851
FY99	\$54,600	3.0%	20	1.81	\$98,614
FY98	\$21,850	3.0%	21	1.86	\$40,647
FY97	\$37,800	3.0%	22	1.92	\$72,429
FY96	\$29,400	3.0%	23	1.97	\$58,023
FY95	\$66,980	3.0%	24	2.03	\$136,157
FY94	\$20,000	3.0%	25	2.09	\$41,876
FY93	\$20,000	3.0%	26	2.16	\$43,132
FY92	\$20,000	3.0%	27	2.22	\$44,426
FY91	\$20,000	3.0%	28	2.29	\$45,759
FY90	\$20,000	3.0%	29	2.36	\$47,131
FY89	\$20,000	3.0%	30	2.43	\$48,545
FY88	\$20,000	3.0%	31	2.50	\$50,002
FY87	\$20,000	3.0%	32	2.58	\$51,502
FY86	\$20,000	3.0%	33	2.65	\$53,047
FY85	\$20,000	3.0%	34	2.73	\$54,638
FY84	\$20,000	3.0%	35	2.81	\$56,277
FY83	\$20,000	3.0%	36	2.90	\$57,966
FY82	\$20,000	3.0%	37	2.99	\$59,705
FY81	\$20,000	3.0%	38	3.07	\$61,496
FY80	\$20,000	3.0%	39	3.17	\$63,341
FY79	\$20,000	3.0%	40	3.26	\$65,241
FY78	\$20,000	3.0%	41	3.36	\$67,198
FY77	\$20,000	3.0%	42	3.46	\$69,214
FY76	\$20,000	3.0%	43	3.56	\$71,290
FY75	\$20,000	3.0%	44	3.67	\$73,429
FY74	\$20,000	3.0%	45	3.78	\$75,632
FY73	\$20,000	3.0%	46	3.90	\$77,901
FY72	\$20,000	3.0%	47	4.01	\$80,238
FY71	\$20,000	3.0%	48	4.13	\$82,645
FY70	\$20,000	3.0%	49	4.26	\$85,124
FY69	\$20,000	3.0%	50	4.38	\$87,678
FY68	\$20,000	3.0%	51	4.52	\$90,308
FY67	\$20,000	3.0%	52	4.65	\$93,018
FY66	\$20,000	3.0%	53	4.79	\$95,808
FY65	\$20,000	3.0%	54	4.93	\$98,682
FY64	\$20,000	3.0%	55	5.08	\$101,643
FY63	\$20,000	3.0%	56	5.23	\$104,692
FY62	\$20,000	3.0%	57	5.39	\$107,833
FY61	\$20,000	3.0%	58	5.55	\$111,068
FY60	\$20,000	3.0%	59	5.72	\$114,400
FY59	\$20,000	3.0%	60	5.89	\$117,832
<b>Total</b>	<b>\$3,001,238</b>				<b>\$6,073,280</b>

[1] Revenue for FY95 - FY19 is from the accounting system. The annual average value for years prior to FY95 were estimated by the District.

[2] The annual percent adjustment is for the time value of money.

# Staff Report



To: Board of Directors  
Re: Item IX.B – Consider adopting the Proposed Capital Budget of \$219,074 for Fiscal Year 2019-2020  
Date: May 20, 2019

## Summary / Discussion

The Capital Budget reflects the Strategic Plan (Plan) and is the fiscal component in relation to projects and priorities delineated in the Plan. Some projects listed in previous Capital Budgets have been completed and were removed from the list for ease of reviewing the document.

The Proposed Capital Budget for Fiscal Year 2019-2020 is comprised of the items that have estimated costs associated with them. The Proposed Capital Budget reflects the implementation and/or completion of the following:

- Continue to purchase radio-read water meters (goal would be 10% of system annually)
- More renovations to the Operations Headquarters (Back unit of District office)
- Implementation of the District Facility Alternative Energy Project (solar)
- Continue to implement XiO SCADA technology
- Continue principal payments on the 2015 Solar and Capital Improvement loan

In the Plan, and identified in the Rate Study currently being prepared, there are plans for future monies to be spent in the remaining four years of the Plan on items like the Operations Shop at Marshall Yard, replacement options for Ballantree Tanks and School Tanks, water system line improvements, and developing a new water source.

Also included in the Rate Study is a Capital Replacement Reserve, which will set aside monies to be used in case of catastrophic failure of transmission and/or distribution lines. These monies are to be set up in a reserve, therefore they are not recorded in the Capital Budget.

There are a couple of projects that the District will need to be involved with, when they come to fruition, though the costs and scope are currently unknown – so they are included in this Proposed Capital Budget. The total estimated Proposed Capital Budget costs, not including the aforementioned projects, is \$104,000.

The ad-hoc Budget committee, consisting of Board President Smith, Board Member Leap, and GM Johnson met twice to review and update the Capital Budget (and the Expense Budget) into the version attached to this report for the full Board’s review, comment and adoption if so inclined.

## Staff Recommendation

Adopt the Proposed Capital Budget of \$219,074 for Fiscal Year 2019-2020.

## Submitted by:

Robert Johnson  
General Manager

AWD Capital Budget  
FY 2019 - 2020



<b>AWD Capital Budget for FY 2019 - 2020 (Proposed)</b>		
#	Strategic Plan Category / Goal	Estimated Cost (\$)
1	<b>Finance</b>	
2	Maintain a balanced annual Expense Budget	
3	Enhance Financial Health with additional funding opportunities	
4	Execute and implement Rate Study - FY 2019 - 2024 (in FY 2018-19)	<b>completed</b>
5	Principal Payments: 2015 Refinance + Solar	<b>115,074</b>
6	<b>Environmental and Resource Stewardship</b>	
7	Maintain, enhance and increase understanding of District's water resources	
8	Encourage infill of existing infrastructure	
9	Research and evaluate opportunities for developing new water sources	
10	Maintain local independent jurisdictional control	
11		
12	<b>Community and Communicator</b>	
13	Achieve District of Distinction by 2021	
14	Achieve Special District Administrator (GM) by 2021	
15	Develop a social media presence strategy	
16	Participate in appropriate community events	
17		
18	<b>Facilities and Infrastructure</b>	
19	Purchase RR meters annually (2018 - up to 10% of system)	<b>25,000</b>
20	Remodel Operations Headquarters (apartment)	<b>8,000</b>
21	Design and implement the District Facility Alternative Energy Project	<b>41,000</b>
22	Investigate security options for Marshall Shop area	
23	Add baserock to and around Carr Tank driveway	
24	Install transfer switches at Carr and Oakridge Booster Stations	
25		
26	Incorporate AWD infrastructure into Rocks Road Bridge Project (SBC)	<b>Unknown</b>
27	Incorporate AWD infrastructure into Carr Avenue Bridge Project (SBC)	<b>Unknown</b>
28	Design and implement the School Road Tank Replacement Project	
29	Upgrade District Storage Shed	
30	Design and implement the Marshall Facility Improvement Project	
31	Security Fencing, new well, WTP, Maintenance Shop, Solar power - or other configuration	
32	Design and implement Ballantree Tank Replacement Project	
33	Develop, design and implement Water Main Looping Program	
34	Design and implement Pleasant Acres Mainline Replacement Project	
35	XiO	<b>30,000</b>
36	<b>District Operations, Personnel and Management</b>	
37	Maintain and improve delivered water quality to meet and exceed current standards	
38	Maintain and enhance District Customer Service	
39	Maintain and enhance District Technology	
40	Develop District Technology Utilization Plan	
41	Maintain and enhance District's preparedness for emergencies	
42	Maintain and enhance District employee training opportunities	
43	Maintain and improve District policies for operations and office personnel	
44	Continue to utilize internships or facilitate learning opportunities	
45		
46	<b>Board of Directors</b>	
47	Maintain and enhance District Board of Directors culture	
48	Provide clear guidance to management	
		<b>\$219,074</b>

# Staff Report



To: Board of Directors

Re: Item IX.C – Consider adopting the Proposed Expense Budget of \$1,539,020 for Fiscal Year 2019-2020

Date: May 21, 2019

## Summary / Discussion

The Proposed Expense Budget is adopted annually by the Board of Directors as the financial guide for District expenses; including all annually-recurring income and expenses. At this Board meeting the Proposed Capital Budget will be presented also.

The Proposed Expense Budget worksheet includes actual revenue and expenses for Fiscal Year (FY) 2017-18, as well as the approved and revised FY 2018-19 Budgets, along with the current actual expenses for the first 10 months of FY 2018-19.

The total revenue projection is estimated to be \$1,539,020; which includes water revenue, three connection charges, property taxes and miscellaneous interest and grants. The water use is projected to be comparable to the current year, though there could be a change in revenue due to the water rate study that is currently in process. If there are significant differences when the Rate Study goes into effect, those differences will be represented in a budget revision.

Changes to the expenses from the FY 2018-2019 Budget are estimated for each line item; including the depreciation reserve, which reserves monies for system repairs and replacement. This Proposed Expense Budget builds this reserve by \$116,803 more than previous fiscal year. The personnel costs are expected to be relatively the same as last year, though the District is currently below the budgeted personnel costs due to vacancies throughout the last fiscal year; attached to this report is an itemization of the anticipated employee costs.

## Staff Recommendation

Adopt the Proposed Expense Budget of \$1,539,020 for Fiscal Year 2019-2020.

## Submitted by:

Robert Johnson  
General Manager

Aromas Water District  
DRAFT Expense Budget  
FY 2019-2020

AROMAS WATER DISTRICT EXPENSE BUDGETS	2017 - 2018	FY 2018-19 THROUGH 04.30.2019	APPROVED 2018- 2019 BUDGET	REVISED 2018 - 2019 BUDGET	PROPOSED 2019 - 2020 BUDGET	Difference between FY2019 and FY2020
	Actual	Actual	Superseded	ADOPTED	PROPOSED	
<b>REVENUE</b>						
303 · Water Revenue	1,073,146	948,134	1,092,000	1,150,000	1,207,500	57,500
307 · Bulk Water	5,639	15,022	6,000	15,000	7,000	(8,000)
302 · Connection	51,160	0	13,300	13,300	41,820	28,520
301 · Taxes Received	75,523	52,844	66,000	66,000	66,000	-
Oakridge/OAWA	128,761	176,391	160,141	160,141	194,200	34,059
304 · Other Office Income	5,374	417	3,000	2,000	500	(1,500)
306 · Interest	11,819	16,604	12,000	17,000	20,000	3,000
312 · Grant Revenue	1,725	2,150	2,600	2,600	2,000	(600)
<b>Total Revenue</b>	<b>1,353,145</b>	<b>1,211,563</b>	<b>\$ 1,355,041</b>	<b>\$ 1,426,041</b>	<b>\$ 1,539,020</b>	112,979
<b>EXPENSES</b>						
<b>Administrative &amp; General</b>						
4593 - Bond Issue Cost			11,875	11,875	-	
4592 - Professional Fees			2,216	2,216	-	
4591 - Bond Admin Fee	10,546	2,574	8,423	8,423	5,000	(3,423)
4590 - Bond Interest Asses.	130,616	67,705	137,176	137,176	128,000	(9,176)
Int Pymnts/Loans - CapProj			3,393	3,393	-	(3,393)
467 - Depreciation/Reserve	444,463	132,000	267,061	329,184	445,987	116,803
405 - Election	-	0	5,200	1,000	-	(1,000)
406 · Liability Ins	2,375	9,175	20,000	20,000	20,000	-
417 · Interest Payment	38,399	18,006	36,820	36,820	35,000	(1,820)
420 · Legal Fees	15,600	7,800	16,000	16,000	16,000	-
423 · Litigation Contingency	-	0	10,000	10,000	10,000	-
422 · Bank Charges	946	980	1,000	1,000	1,900	900
425 · Audit	12,200	10,136	11,625	11,625	12,500	875
471 · Bad Debts	70	0	500	500	500	-
473 · Memberships	16,353	10,705	16,000	16,000	17,000	1,000
<b>Total Administrative &amp; General</b>	<b>671,568</b>	<b>188,802</b>	<b>547,289</b>	<b>605,212</b>	<b>691,887</b>	86,675
<b>Communications</b>						
455 · Phone, Off	3,886	2,024	3,500	4,000	4,000	-
456 · Telemetry	3,587	1,797	3,600	3,600	6,600	3,000
457 · Answ Serv/Cell Phone	2,779	1,461	3,600	3,600	3,600	-
<b>Total Communications</b>	<b>10,252</b>	<b>5,282</b>	<b>10,700</b>	<b>11,200</b>	<b>14,200</b>	3,000
<b>Payroll</b>						
Gross	400,774	323,146	405,740	405,740	406,233	493
Comp FICA	25,075	19,186	25,156	25,156	25,186	30
Comp MCARE	5,864	4,676	5,883	5,883	5,890	7
Comp SUI & SDI	2,049	1,920	2,335	2,335	2,335	-
<b>Total Payroll</b>	<b>433,762</b>	<b>348,928</b>	<b>439,114</b>	<b>439,114</b>	<b>439,645</b>	531
<b>Employee Costs</b>						
407 · Outside Services	5,708	4,441	6,000	6,000	6,000	-
408 · Uniform Allowance	1,166	1,467	1,500	2,000	3,000	1,000
409 · Workers Comp	8,347	10,116	12,668	12,668	12,306	(362)
410 · Health Ins	73,716	59,125	70,224	70,224	70,842	618
474 · Education	4,385	3,235	6,000	6,000	7,500	1,500
477 · Retirement Contrib	104,042	58,932	73,874	73,874	74,090	216
<b>Total Employee Costs</b>	<b>197,364</b>	<b>137,315</b>	<b>170,266</b>	<b>170,766</b>	<b>173,738</b>	2,972

Aromas Water District  
DRAFT Expense Budget  
FY 2019-2020

	2017 - 2018	THROUGH 04-30-2019	APPROVED 2018- 2019 BUDGET	REVISED 2018 - 2019 BUDGET	PROPOSED 2019 - 2020 BUDGET	
	Actual	Actual	Superseded	ADOPTED	PROPOSED	
<b>Office</b>						
440 · Misc Exp	3,404	2,511	4,000	4,000	4,000	-
444 · Postage	4,023	2,897	4,000	4,000	4,000	-
445 · Office Supplies	3,189	2,652	4,000	4,000	4,000	-
446 · Office Eqpmt Maint	9,692	7,099	10,000	10,000	20,000	10,000
<b>Total Office</b>	<b>20,308</b>	<b>15,160</b>	<b>22,000</b>	<b>22,000</b>	<b>32,000</b>	10,000
<b>Operations</b>						
403 · Fuel	9,237	9,345	10,000	12,000	14,500	2,500
404 · Truck Maint	3,499	4,901	5,000	5,000	6,000	1,000
431 · System Repair & Maint	52,189	47,798	60,000	60,000	65,000	5,000
463 · Water Analysis	5,484	3,912	6,000	6,000	6,000	-
464 · Water Treatment	10,545	10,396	9,500	12,000	13,000	1,000
468 · Tools	6,136	3,061	7,500	7,500	7,000	(500)
470 · PI / Annex / Conserv	1,154	1,693	4,000	4,000	2,500	(1,500)
<b>Total Operations</b>	<b>88,244</b>	<b>81,105</b>	<b>102,000</b>	<b>106,500</b>	<b>114,000</b>	7,500
<b>Power</b>						
449.75 388 Blohm #C	198	110	200	200	400	200
449.5-388 Blohm A & B	1,610	1,323	1,600	1,600	1,700	100
447 · Leo Ln Booster	380	346	400	400	400	-
448 · Aimee Mdws Well	120	96	125	125	150	25
451 · Marshall Corp Yard	435	322	500	500	500	-
452 · Rea Booster @ Seely	342	564	400	400	450	50
454 · Carr Booster	4,846	4,196	4,500	4,500	5,000	500
458 · Pleasant Acres Well	15,443	8,674	12,000	12,000	13,000	1,000
459 · Seely Pump & Carpenteri	(26)	192	300	300	500	200
460 · San Juan Well	49,175	32,953	45,000	45,000	49,000	4,000
461.5 RLS Tank	119	97	125	125	150	25
461 · Cole Tank	152	128	175	175	200	25
462 · Rea Tank	187	121	175	175	200	25
465 · Lwr Oakridge Bstr	899	4,855	1,000	5,000	1,000	(4,000)
465.5 · Upr Oakridge Bstr	294	600	600	600	700	100
466 · Pine Tree Tank	152	122	150	150	200	50
<b>Total Power</b>	<b>74,326</b>	<b>54,698</b>	<b>67,250</b>	<b>71,250</b>	<b>73,550</b>	2,300
<b>TOTAL EXP</b>	<b>1,495,824</b>	<b>831,290</b>	<b>1,358,619</b>	<b>1,426,041</b>	<b>1,539,020</b>	112,978
<b>NET INCOME</b>	<b>(142,679)</b>	<b>380,272</b>	<b>(3,578)</b>	<b>(0)</b>	<b>0</b>	
Add back in Depreciation/Reserve	444,463	132,000	267,061	329,184	445,987	116,803
Net incl. Depreciation	301,784	512,272	263,483	329,184	445,987	116,804



Aromas Water District  
FY 2019-2020  
Payroll Worksheet

JobTitle	Yrs w/ AWD	Hrs p/ yr	% of increase	Proposed Hourly 2019-2020	PROPOSED 2019-2020	FICA	MCare	SDI 1.0% SUI 2.7%	Health	CalPERS	Workers Comp
General Mgr - R Johnson	2	2080	4%		\$ 150,696	6.20%	1.45%	<\$7000	25,079	14,179	2,969
Ex-Gen Mgr VM on-call		250		\$ 65.00	\$ 16,250	1,008	236	259	0	0	320
											1.97 W/C rate
Admin Services Officer	4	1248	4%	\$ 25.12	\$ 31,345	1,943	454	259	0	2,145	163
											0.57 W/C rate
Accounts Clerk	3	1248	4%	\$ 19.66	\$ 24,531	1,521	356	259	0	1,678	140
											0.57 W/C rate
CSR	0.33	1248	4%	\$ 16.22	\$ 20,248	1,255	294	259	0	1,385	115
Chief Operator	13	2080	4%	\$ 43.68	\$ 90,854	5,633	1,317	259	33,283	8,548	5,133
o/call & OT		220	4%	\$ 43.68	\$ 9,610	596	139			904	543
											6 WC rate
Operator I	0.1	2080	0%	\$ 21.00	\$ 43,680	2,708	633	259	12,481	2,989	2,468
o/call & OT		220	0%	\$ 21.00	\$ 4,620	286	67			316	261
											5.65 WC rate
yrs of serv	<b>22.43</b>										0.65 WC rateDir
Directors (5)		72		\$ 240.00	\$ 14,400	893	209	522	0	0	94
+CalPERS addl unfunded liab										41,945	0
Interns				\$ -						0	100
	<b>22.43</b>				\$ 406,233	<b>25,186</b>	<b>5,890</b>	<b>2,335</b>	<b>70,842</b>	<b>74,090</b>	<b>12,306</b>
					ee contrib	4.20%	1.45%	1.20%	20% co-py	7.00%	

Aromas Water District  
 Balance Sheet Prev Year Comparison  
 As of April 30, 2019

	Apr 30, 19	Apr 30, 18
<b>ASSETS</b>		
Current Assets		
Checking/Savings		
UB Checking	197,998.18	146,418.66
UB Bk Money Market xxxx7853	299,893.45	117,020.08
LAIF-State of Ca xx-05	810,935.70	792,587.92
Petty Cash	100.00	100.00
Assessment District Banks		
OAWA Union Bank Checking 7741	24,670.53	39,290.54
OAWA Union Bank 101 Redemption	19.41	-2,540.35
OAWA Union Bank 102 Reserve	35,701.24	35,381.62
Oakridge Union Checking 5587	326,185.86	373,804.39
CFD Union Bank CFD98-1	0.00	10,361.54
CFD 02 Provident T Fund Reserve	0.00	-59.62
Total Assessment District Banks	386,577.04	456,238.12
Total Checking/Savings	1,695,504.37	1,512,364.78
Accounts Receivable		
1200 · Accounts Rec - Special Projects	0.00	3,500.00
Total Accounts Receivable	0.00	3,500.00
Other Current Assets		
1292 · Accounts Rec - USDA Loan	2,272,916.60	2,329,859.60
1291 · Accounts Rec - Orchard Acres	335,320.03	339,708.47
Prepaid Insurance	8,127.54	7,959.82
128 · Inventory	26,885.37	23,913.50
1200.1 · Accounts Receivable--UBMax	91,162.17	86,695.04
1201.9 · Less Allowance for doubtful Acc	-500.00	-500.00
Total Other Current Assets	2,733,911.71	2,787,636.43
Total Current Assets	4,429,416.08	4,303,501.21
Fixed Assets		
1900 · Water System	11,776,550.25	11,659,214.44
1915 · Office Building & Improvements	398,261.43	387,260.80
1970 · Office Equipment & Fixtures	93,467.05	93,467.05
1980 · District Vehicles	117,577.39	75,349.31
1990 · Land and Easements	340,644.03	330,195.78
1995 · Idle Assets	43,400.00	43,400.00
1998 · Less Accum Depr Idle Assets	-42,400.00	-42,400.00
1999 · Less Accumuated Depreciation	-5,700,372.00	-5,156,460.75
Total Fixed Assets	7,027,128.15	7,390,026.63
Other Assets		
Deferred Outflow of Resources	187,200.00	174,771.00
Deposits		
ACWA Deposit	2,080.80	2,080.80
Total Deposits	2,080.80	2,080.80
Total Other Assets	189,280.80	176,851.80
<b>TOTAL ASSETS</b>	<b>11,645,825.03</b>	<b>11,870,379.64</b>

Aromas Water District  
 Balance Sheet Prev Year Comparison  
 As of April 30, 2019

	Apr 30, 19	Apr 30, 18
<b>LIABILITIES &amp; EQUITY</b>		
Liabilities		
Current Liabilities		
Accounts Payable		
2000 - Accounts Payable	112,033.00	77,900.76
Total Accounts Payable	112,033.00	77,900.76
Credit Cards		
First Bankcard - E Giron #86	194.92	75.00
First Bankcard - R. Johnson #31	1,525.00	2,703.24
ACE Hardware	0.00	39.85
First Bankcard - L Coombes #92	532.34	1,114.14
First Bankcard -- T. Zelmar #67	0.00	1,055.80
Valero - Fuel	633.47	683.12
First Bankcard -- D DeAlba #35	1,073.18	429.96
Total Credit Cards	3,958.91	6,101.11
Other Current Liabilities		
2100 - Payroll Liabilities	959.52	103.98
City National Bank - Current	111,781.03	105,477.00
Deferred Inflows- Actuarial	7,709.00	17,463.00
CUSTOMER DEPOSITS		
Connection Deposits Payable	4,000.00	4,000.00
Hydrant Meter Deposit	150.00	150.00
Total CUSTOMER DEPOSITS	4,150.00	4,150.00
Accrued Vacation Payable	19,106.97	22,769.14
Interest Payable	52,467.01	52,480.90
Payroll Taxes Payable		
State Payroll Taxes Payable		
Payroll-SDI	9.80	0.00
Payroll-SUI	-112.14	0.00
Total State Payroll Taxes Payable	-102.34	0.00
Total Payroll Taxes Payable	-102.34	0.00
PVWMA Payable	11,266.56	10,940.78
Total Other Current Liabilities	207,337.75	213,384.80
Total Current Liabilities	323,329.66	297,386.67
Long Term Liabilities		
2590 - Unearned Revenue - CFD 98-1	5,545.71	13,436.52
2392 - Long-term Debt - USDA (Oakrdge)	2,629,000.00	2,693,000.00
2391 - Long-term Debt - Orchard Acres	400,000.00	420,000.00
GASB 68 Pension Liability	562,232.00	501,054.00
City National Bank	985,605.23	1,103,690.29
Total Long Term Liabilities	4,582,382.94	4,731,180.81
Total Liabilities	4,905,712.60	5,028,567.48
Equity		
Investment in Capital Assets	6,420,006.53	6,420,006.53
Unrestricted Net Assets	2,880,937.63	3,019,748.84
Allocation of Net Assets	-2,637,574.59	-2,637,407.62
Net Income	76,742.86	39,464.41
Total Equity	6,740,112.43	6,841,812.16
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>11,645,825.03</b>	<b>11,870,379.64</b>

Aromas Water District  
Profit & Loss Budget Performance

Accrual Basis

April 2019

	Apr 19	Budget	Jul '18 - Apr 19	YTD Budget	Annual Budget
<b>Ordinary Income/Expense</b>					
<b>Income</b>					
303 · Water Revenue	74,660.01	85,000.00	948,134.17	911,000.00	1,150,000.00
307 · Bulk Water	578.30	500.00	15,022.45	13,900.00	15,000.00
302 · Connection	0.00	0.00	0.00	0.00	13,300.00
301 · Taxes Rcvd - AWD					
3090 · Oakridge / OAWA Assess...	76,274.43	45,140.73	176,391.10	160,140.73	160,140.73
301 · Taxes Rcvd - AWD - Other	13,838.30	12,000.00	52,843.56	52,100.00	66,000.00
Total 301 · Taxes Rcvd - AWD	90,112.73	57,140.73	229,234.66	212,240.73	226,140.73
304 · Other Office Income & Reimbu...	2.00	0.00	417.13	410.00	2,000.00
306 · Interest	1,732.11	1,700.00	16,604.15	13,600.00	17,000.00
312 · Grant Revenue	0.00	0.00	2,150.00	2,500.00	2,600.00
Total Income	167,085.15	144,340.73	1,211,562.56	1,153,650.73	1,426,040.73
Gross Profit	167,085.15	144,340.73	1,211,562.56	1,153,650.73	1,426,040.73
<b>Expense</b>					
<b>Operations</b>					
403 · Fuel	1,176.77	1,000.00	9,345.41	9,500.00	12,000.00
404 · Truck Maint	1,094.56	1,000.00	4,901.05	5,000.00	5,000.00
431 · System Repair & Maint	16,063.55	5,000.00	47,797.59	50,000.00	60,000.00
463 · Water Analysis	332.00	500.00	3,912.00	5,000.00	6,000.00
464 · Water Treatment	0.00	792.00	10,395.59	10,416.00	12,000.00
468 · Tools	242.39	500.00	3,060.59	6,200.00	7,500.00
470 · Public Outreach / Annexation	1,550.00	340.00	1,692.56	3,320.00	4,000.00
Total Operations	20,459.27	9,132.00	81,104.79	89,436.00	106,500.00
<b>Power</b>					
449.75 · 388 Blohm, # C	-29.70	17.00	110.11	168.00	200.00
449.5 · 388 Blohm, A & B Office	116.02	130.00	1,323.06	1,340.00	1,600.00
461.5 · RLS Tank Booster	10.51	10.00	96.92	104.00	125.00
447 · Leo Ln Booster	34.35	32.00	345.74	335.00	400.00
448 · Aimee Mdws Well	9.86	10.00	95.62	104.00	125.00
451 · Marshall Corp Yard	35.15	42.00	322.49	416.00	500.00
452 · Rea Booster @ Seely	126.63	33.00	563.68	334.00	400.00
454 · Carr Booster	341.98	360.00	4,196.01	3,740.00	4,500.00
458 · Pleasant Acres Well	61.89	800.00	8,673.69	10,400.00	12,000.00
459 · Seely Booster @ Carpenteria	19.71	20.00	191.90	260.00	300.00
460 · San Juan Well	2,365.08	3,750.00	32,952.52	38,000.00	45,000.00
461 · Cole Tank	12.53	14.00	128.18	147.00	175.00
462 · Rea Tank	12.70	14.00	121.29	147.00	175.00
465 · Lwr Oakridge Boost	68.25	80.00	4,855.18	4,840.00	5,000.00
465.5 · Upper Oakridge Booster	0.00	50.00	600.00	500.00	600.00
466 · Pine Tree Tank	12.57	12.50	122.40	125.00	150.00
Total Power	3,197.53	5,374.50	54,698.79	60,960.00	71,250.00
<b>Payroll</b>					
Gross	31,454.60	33,890.00	323,145.51	337,950.00	405,740.00
Comp FICA	1,950.18	2,096.00	19,186.24	20,960.00	25,156.00
Comp MCARE	456.09	490.00	4,676.33	4,900.00	5,883.00
Comp SUI	31.76	195.00	1,919.75	1,945.00	2,335.00
Total Payroll	33,892.63	36,671.00	348,927.83	365,755.00	439,114.00
<b>Employee / Labor Costs</b>					
407 · Outside Services	71.98	500.00	4,440.71	5,000.00	6,000.00
408 · Uniform Allowance	502.85	400.00	1,466.96	1,550.00	2,000.00
409 · Workers Comp	935.55	1,059.00	10,115.85	10,584.00	12,702.00
410 · Health Ins	5,866.13	5,852.00	59,125.18	58,520.00	70,224.00
474 · Education	1,525.00	500.00	3,234.70	5,000.00	6,000.00
477 · Retirement	5,756.58	6,160.00	58,932.07	61,594.00	73,914.00
Total Employee / Labor Costs	14,658.09	14,471.00	137,315.47	142,248.00	170,840.00

Aromas Water District  
Profit & Loss Budget Performance

April 2019

	Apr 19	Budget	Jul '18 - Apr 19	YTD Budget	Annual Budget
Office					
440 · Misc Exp	155.00	340.00	2,511.45	3,320.00	4,000.00
444 · Postage	499.22	280.00	2,897.41	2,800.00	4,000.00
445 · Office Supplies	612.92	340.00	2,652.20	3,320.00	4,000.00
446 · Office Eqpmt and Maint	223.19	780.00	7,098.87	8,440.00	10,000.00
Total Office	1,490.33	1,740.00	15,159.93	17,880.00	22,000.00
Communications					
455 · Phone, Off	274.81	400.00	3,317.72	3,200.00	4,000.00
456 · Telemetry	299.18	300.00	2,993.21	3,000.00	3,600.00
457 · Answ Serv/Cellular Phone	233.11	300.00	2,435.92	3,000.00	3,600.00
Total Communications	807.10	1,000.00	8,746.85	9,200.00	11,200.00
Administrative & General					
4593 · Bond Issue Cost	0.00	0.00	0.00	0.00	11,875.00
4592 · Professional Fees	0.00	0.00	0.00	0.00	2,215.80
4591 · Admin Fee (Bond Admin N...	1,377.00	0.00	4,817.94	2,520.00	8,423.16
4590 · Bond Interest Exp - Assess...	0.00	0.00	131,839.71	137,176.42	137,176.42
Int Pymts LoansCapital Projects	0.00	0.00	0.00	0.00	3,393.35
417 · Capital Loan Interest	17,195.00	18,410.00	35,201.11	36,820.00	36,820.00
467.5 · Amortization Exp	0.00	0.00	0.00	0.00	1,500.00
467 · Depreciation Reserve	32,000.00	32,000.00	260,000.00	260,000.00	327,608.00
405 · Election	0.00	0.00	400.00	400.00	1,000.00
406 · Liability Ins	1,556.24	1,700.00	14,223.35	16,600.00	20,000.00
420 · Legal Fees	1,300.00	1,340.00	13,000.00	13,320.00	16,000.00
422 · Bank Charges	140.24	85.00	1,590.60	830.00	1,000.00
423 · Litigation Contingency	0.00	0.00	0.00	5,000.00	10,000.00
425 · Audit	425.00	425.00	11,611.00	9,625.00	11,625.00
471 · Bad Debts	0.00	0.00	15.00	15.00	500.00
473 · Memberships	0.00	0.00	16,167.33	16,000.00	16,000.00
Total Administrative & General	53,993.48	53,960.00	488,866.04	498,306.42	605,136.73
Total Expense	128,498.43	122,348.50	1,134,819.70	1,183,785.42	1,426,040.73
Net Ordinary Income	38,586.72	21,992.23	76,742.86	-30,134.69	0.00
Net Income	38,586.72	21,992.23	76,742.86	-30,134.69	0.00

05/20/19

Aromas Water District  
**Monthly Expenditures**  
 April 17 through May 20, 2019

Date	Num	Name	Amount
UB Checking			
04/22/2019	17192	First Bankcard	-4,495.54
04/22/2019	17193	Valero	-940.73
04/22/2019	17194	XIO, INC.	-563.25
04/24/2019	17195	San Benito County Clerk	-50.00
04/26/2019	17196	Aromas Water District (Petty Cash)	-102.30
04/29/2019	E-pay	Employment Development Dept	-645.88
04/29/2019	E-pay	United States Treasury (EFTPS)	-3,747.28
04/30/2019	DD1361	Morris (P), Vicki	0.00
04/30/2019	DD1362	Bowman (P), Naomi	0.00
04/30/2019	DD1363	Coombes (P), Louise P	0.00
04/30/2019	17197	DeAlba (P), David	-3,035.78
04/30/2019	DD1364	Giron (P), Ester	0.00
04/30/2019	DD1365	Johnson (P), Robert L	0.00
04/30/2019	17198	Smith (P), Shaun	-1,157.52
04/30/2019	EFT	QuickBooks Payroll Service	-6,191.34
04/30/2019	EFT	CalPERS	-878.71
04/30/2019	EFT	CalPERS	-2,039.23
04/30/2019	EFT	Bank Service Fees	-145.24
04/30/2019	EFT	Google	-10.00
04/30/2019	EFT	Intuit	-60.12
05/02/2019	Paid Online	P G & E	-68.25
05/02/2019	17199	A T & T U-verse	-60.00
05/02/2019	17200	ACE Hardware Prunedale	-69.98
05/02/2019	17201	CALNET3	-576.86
05/02/2019	17202	City National Bank	-73,491.07
05/02/2019	17203	CSSC	-90.85
05/02/2019	17204	Municipal Financial Services	-7,540.00
05/02/2019	17205	Potable Divers Inc.	-7,200.00
05/02/2019	17206	Rob Johnson	-50.00
05/02/2019	17207	Softline Data, Inc.	-145.00
05/02/2019	17208	Streamline	-100.00
05/02/2019	17209	United Way serving San Benito County	-32.00
05/02/2019	17210	USPO	-469.00
05/02/2019	17211	Verizon Wireless	-37.65
05/03/2019	EFT	CalPERS	-3,495.42
05/03/2019	Paid Online	P G & E	-3,012.74
05/06/2019	17212	USPO	-206.92
05/06/2019	17213	USPO	-55.00
05/10/2019	EFT	P G & E	-146.24
05/13/2019	E-pay	Employment Development Dept	-682.15
05/13/2019	E-pay	United States Treasury (EFTPS)	-4,002.88
05/14/2019	EFT	QuickBooks Payroll Service	-6,492.55
05/15/2019	DD1369	Bowman (P), Naomi	0.00
05/15/2019	DD1370	Coombes (P), Louise P	0.00
05/15/2019	17216	DeAlba (P), David	-3,182.68
05/15/2019	DD1371	Giron (P), Ester	0.00
05/15/2019	DD1372	Johnson (P), Robert L	0.00
05/15/2019	17217	Smith (P), Shaun	-1,113.45
05/15/2019	17214	Dutra (P), Marcus	-214.67
05/15/2019	17215	Holman (P), Wayne R	-214.67
05/15/2019	DD1366	Leap (P), James E	0.00

05/20/19

Aromas Water District  
Monthly Expenditures  
April 17 through May 20, 2019

---

Date	Num	Name	Amount
05/15/2019	DD1367	Norton (P), K W	0.00
05/15/2019	DD1368	Smith (P), Richard	0.00
05/15/2019	EFT	CalPERS	-1,043.53
05/15/2019	EFT	CalPERS	-1,999.91
05/15/2019	17218	ACE Hardware Prunedale	-57.34
05/15/2019	17219	ACWA JPIA, Emp. Ben. Prog.	-6,046.55
05/15/2019	17220	Brigantino Irrigation	-229.21
05/15/2019	17221	Davis Auto Parts Store	-150.63
05/15/2019	17222	Fastenal Company	-59.49
05/15/2019	17223	Fedak & Brown LLP	-425.00
05/15/2019	17224	Leticia Oropreza	-15.98
05/15/2019	17225	Mid Valley Supply	-997.33
05/15/2019	17226	Monterey Bay Analytical Services Inc	-154.00
05/15/2019	17227	R & B Company	-1,347.12
05/15/2019	17228	Recology San Benito County	-51.00
05/15/2019	17229	Robert E. Bosso	-1,300.00
05/15/2019	17230	Xerox Corp	-21.04
Total UB Checking			-150,711.08
TOTAL			<u>-150,711.08</u>