Water and Wastewater Rate Study

Santa Rosa Water – BPU Recommendation

February 18, 2021

Kimberly Zunino, Deputy Director - Administration



Agenda

COVID 19 Pandemic Billing Update

Water and Wastewater Rate Study Recommendation

Financial Strategy for the Water Shortage Contingency Plan (WSCP)

Request for Recommendation to City Council

COVID 19 Pandemic Billing Impacts



Pandemic Response

- Moratorium on disconnection for non-payment
 - ✤ March 2020
- Waiver of delinquent fees
 - ✤ March 2020
- Payment plans
 - Accepting any terms
- ✤ H2O outreach (low income assistance program)
- Monitoring Federal and State relief

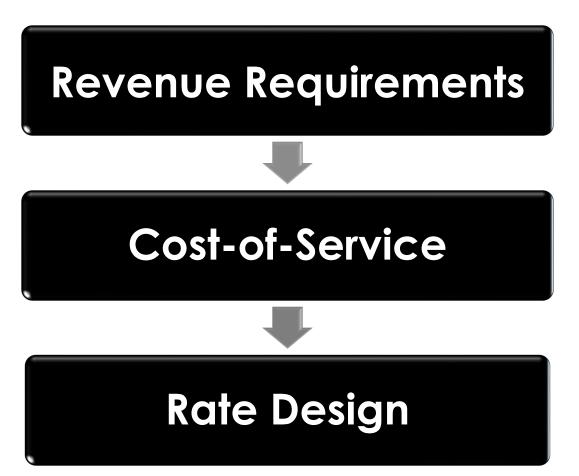
Additional Processes and Accounts in Arrears

- Billing system not designed for 90 plus day overdue balances
 - Normal delinquent processes did not allow for over 90 day overdue
 - Payment plans require manual processing
- Tracking overdue bills limited by billing system
- Roughly 3% of accounts overdue 90 plus days
 - ✤ Approximately 1,700 accounts
 - Consistent with typical percentage of overdue accounts
 - Current total approximately \$1.4m
 - Sales higher than projected and fund balance available to absorb
- Must continue to collect balances
 - Currently working on solutions for arrearage amounts after moratorium ends

Water and Wastewater Rate Study Recommendations



Rate Study Overview

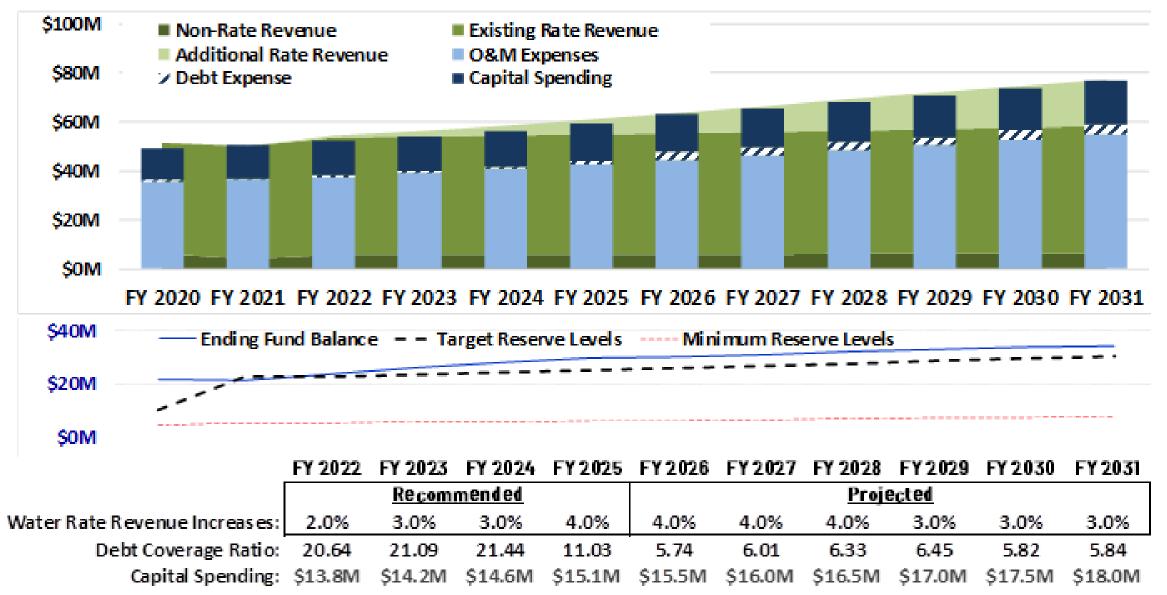


Compare the revenues of the water, wastewater, and subregional utilities to their expenses in multiyear **financial plans** to determine the overall level of annual rate adjustments

Proportionately allocate the FY 21-22 revenue requirement between the various customer classes based on service and demand requirements

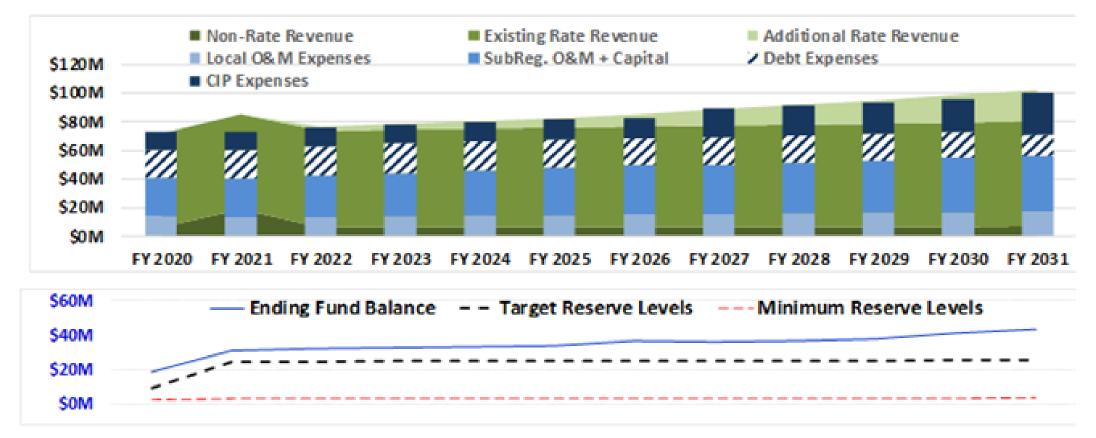
Design water and wastewater rates to recover the revenue requirement from each customer class and meet other rate setting objectives

Recommended Water Utility Financial Plan



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Recommended Wastewater Utility Financial Plan



		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	
			Recom	mended		Projected						
Wastewater Rate In	2.00%	2.00%	2.00%	2.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		
Combined Debt Coverag	4.58	4.86	4.46	4.49	4.70	5.08	5.74	5.93	6.49	6.64		
Local WW CIP: \$12.9M	\$12.4M	\$12.7M	\$13.1M	\$13.5M	\$13.9M	\$14.3M	\$20.6M	\$21.2M	\$21.8M	\$22.5M	\$29.7M	
Regional CIP: \$3.4M	\$5.1M	\$5.9M	\$6.6M	\$7.3M	\$8.1M	\$8.8M	\$9.1M	\$9.3M	\$9.6M	\$9.9M	\$10.2M	

Summary of Recommended Water/Wastewater Rate Adjustments

	Water Rate Adjustments	WW Rate Adjustments
July 2021	2.0%	2.0%
July 2022	3.0%	2.0%
July 2023	3.0%	2.0%
July 2024	4.0%	2.0%

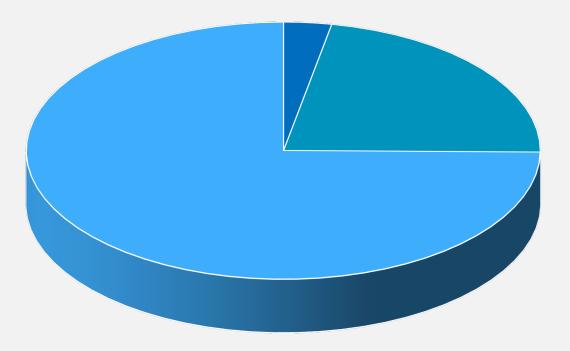
Note: Applies to usage and fixed charges equally.

Cost Allocation Principles

- Customer costs
 - ✓ Assigned to each customer on an equal basis
- Capacity costs
 - ✓ Assigned to each customer based on meter size
- Commodity costs
 - ✓ Assigned to each customer based on usage
- Water supply and water conservation costs
 - ✓ Assigned to tiered water usage rates
- Wastewater treatment costs
 - ✓ Assigned to sewer usage rates based on flow and strength

Cost Allocation Summary

Water Utility

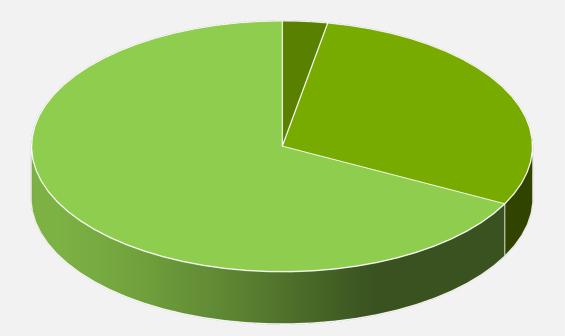


Customer Costs
Capacity Costs

Commodity Costs

Customer CostsCommodity Costs

Wastewater Utility



Recommended FY 2021-22 Water Rate Schedule

		Current	July 2021	Change		
Water Us	sage Rates (\$/TGAL)			\$	%	
Single Fami	ily Residential & Duplex					
Tier 1	Use up to Sewer Cap (1)	\$5.84	\$5.99	\$0.15	2.6%	
Tier 2	Above Sewer Cap	\$6.79	\$6.79	\$0.00	0.0%	
Single Fami	ily with No Irrigation Needs (Z=Y) (2)					
-	All water use	\$5.84	\$5.99	\$0.15	2.6%	
Multi-Famil	ly, Commercial, Industrial, and Institutional					
	All water use	\$6.20	\$6.33	\$0.13	2.1%	
Irrigation (p	potable water) (3)					
Tier 1	Use up to 125% of water budget	\$5.90	\$6.09	\$0.19	3.2%	
Tier 2	Over 125% of water budget	\$7.34	\$7.54	\$0.20	2.7%	
Irrigation (r	recycled water) (3)					
Tier 1	Use up to 125% of water budget	\$5.60	\$5.79	\$0.19	3.4%	
Tier 2	Over 125% of water budget	\$7.34	\$7.54	\$0.20	2.7%	
Monthly :	Service Charges (Potable Water)					
-	5/8" meter	\$13.76	\$14.09	\$0.33	2.4%	
	1" meter	\$30.86	\$31.63	\$0.77	2.5%	
	1 1/2" meter	\$59.36	\$60.86	\$1.50	2.5%	
	2" meter	\$93.57	\$95.95	\$2.38	2.5%	
	3" meter	\$173.36	\$177.81	\$4.45	2.6%	
	4" meter	\$287.36	\$294.76	\$7.40	2.6%	
	6" meter	\$572.36	\$587.13	\$14.77	2.6%	
Monthly S	Service Charges (Recycled Water)					
-	5/8" meter	\$12.39	\$12.68	\$0.29	2.3%	
	1" meter	\$27.77	\$28.47	\$0.70	2.5%	
	1 1/2" meter	\$53.42	\$54.77	\$1.35	2.5%	
	2" meter	\$84.21	\$86.36	\$2.15	2.6%	
	3" meter	\$156.03	\$160.03	\$4.00	2.6%	
	4" meter	\$258.63	\$265.28	\$6.65	2.6%	
	6" meter	\$515.12	\$528.42	\$13.30	2.6%	
Notes:						

Notes:

(1) The Sewer Cap is calculated for each customer based on the average monthly water use during November through March.

(2) "Z=Y" accounts are single family or duplex accounts with no outdoor usage.

(3) The landscape water budget varies for each customer each month and is determined using the site's square footage for the types of plants and the evapotranspiration rate for the billing period.

Recommended FY 2021-22 Wastewater Rate Schedule

	Current	July 2021	Change		
Wastewater Usage Rates (\$/TGAL) ((1)		\$	%	
Single Family and Multi-Family (2)	\$14.86	\$15.12	\$0.26	1.7%	
Commercial, Industrial, and Institutional					
Low Strength	\$12.35	\$12.42	\$0.07	0.6%	
Standard Strength	\$14.86	\$15.12	\$0.26	1.7%	
Medium Strength	\$16.48	\$16.85	\$0.37	2.2%	
High Strength	\$20.36	\$21.01	\$0.65	3.2%	
Monthly Service Charges					
Single Family	\$25.85	\$26.06	\$0.21	0.8%	
Multi-Family, Commercial, Industrial, Ir	nstitutional				
5/8" & 3/4" meters	\$25.85	\$26.06	\$0.21	0.8%	
1" meter	\$62.26	\$60.15	-\$2.11	-3.4%	
1 1/2" meter	\$122.91	\$116.96	-\$5.95	-4.8%	
2" meter	\$195.72	\$185.14	-\$10.58	-5.4%	
3" meter	\$365.58	\$344.22	-\$21.36	-5.8%	
4" meter	\$608.24	\$571.48	-\$36.76	-6.0%	
6" meter	\$1,214.89	\$1,139.63	-\$75.26	-6.2%	

Notes:

(1) Wastewater usage charge applies to the estimated wastewater generated. For single-family residential accounts and multi-family accounts without a separate irrigation meter the esimated wastewater is based on the lower of current water use or the Sewer Cap. The Sewer Cap is calculated for these residential accounts based on the average water use from complete billing periods within the months of November through March. For Multi-family accounts with a dedicated irrigation meter or no irrigation from City water, as well as non-residential accounts, wastewater charges are based on actual monthly water usage from the domestic meter.

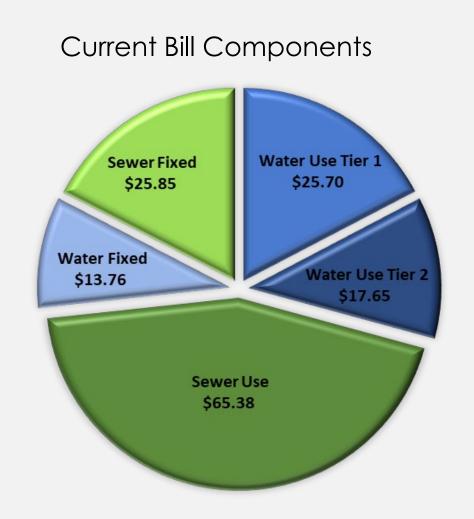
(2) Multifamily accounts include duplex, and triplex accounts.

Preliminary FY 2021-22 Bill Impact Analysis

	Meter	Wtr. Use	WW Use	Bills With Current Water/WW Rates		Bills With P	roposed Water	Change in Total Bi			
	Size	(TGAL)	(TGAL)	Water	Wastewater	Total	Water	Wastewater	Total	\$	%
Single Family Residential											
Low Water Use	5/8"	4	4	\$37.12	\$85.29	\$122.41	\$38.05	\$86.54	\$124.59	\$2.18	1.8%
Median Water Use	5/8"	7	5	\$56.54	\$100.15	\$156.69	\$57.62	\$101.66	\$159.28	\$2.59	1.7%
High Water Use	5/8"	12	6	\$89.54	\$115.01	\$204.55	\$90.77	\$116.78	\$207.55	\$3.00	1.5%
Very High Water Use	5/8"	20	7	\$142.91	\$129.87	\$272.78	\$144.29	\$131.90	\$276.19	\$3.41	1.3%
Duplex	5/8"	8	6	\$62.38	\$115.01	\$177.39	\$63.61	\$116.78	\$180.39	\$3.00	1.7%
Small Apartment (4 DUs)	1"	15	12	\$123.86	\$240.58	\$364.44	\$126.58	\$241.59	\$368.17	\$3.73	1.0%
Large Apartment (24 DUs)	2"	80	80	\$589.57	\$1,384.52	\$1,974.09	\$602.35	\$1,394.74	\$1,997.09	\$23.00	1.2%
Very Lrg. Apart. (100 DUs)	4"	320	320	\$2,271.36	\$5 <i>,</i> 363.44	\$7,634.80	\$2,320.36	\$5,409.88	\$7,730.24	\$95.44	1.3%
Small Retail	5/8"	6	6	\$50.96	\$99.95	\$150.91	\$52.07	\$100.58	\$152.65	\$1.74	1.2%
Large Retail	2"	80	80	\$589.57	\$1,183.72	\$1,773.29	\$602.35	\$1,178.74	\$1,781.09	\$7.80	0.4%
Office Building	1 1/2"	40	40	\$307.36	\$616.91	\$924.27	\$314.06	\$613.76	\$927.82	\$3.55	0.4%
Car Wash	2"	60	60	\$465.57	\$936.72	\$1,402.29	\$475.75	\$930.34	\$1,406.09	\$3.80	0.3%
Mixed Comm. w/ Food	1"	35	35	\$247.86	\$774.86	\$1,022.72	\$253.18	\$795.50	\$1,048.68	\$25.96	2.5%
Hotel w/ Restaurant	3"	200	200	\$1,413.36	\$4,437.58	\$5,850.94	\$1,443.81	\$4,546.22	\$5,990.03	\$139.09	2.4%
Restaurant	1 1/2"	50	50	\$369.36	\$1,140.91	\$1,510.27	\$377.36	\$1,167.46	\$1,544.82	\$34.55	2.3%
Supermarket	2"	160	160	\$1,085.57	\$2,832.52	\$3,918.09	\$1,108.75	\$2,881.14	\$3,989.89	\$71.80	1.8%
Mortuary	1"	20	20	\$154.86	\$469.46	\$624.32	\$158.23	\$480.35	\$638.58	\$14.26	2.3%
Small Winery	1"	10	10	\$92.86	\$265.86	\$358.72	\$94.93	\$270.25	\$365.18	\$6.46	1.8%
Sm. Irrig. (Wtr Budg.=18 tg)	1"	20		\$151.74	(na)	\$151.74	\$156.33	(na)	\$156.33	\$4.59	3.0%
Lrg. Irrig. (Wtr. Budg.=250 tg)	4"	300		\$2,129.36	(na)	\$2,129.36	\$2,121.76	(na)	\$2,121.76	-\$7.60	-0.4%

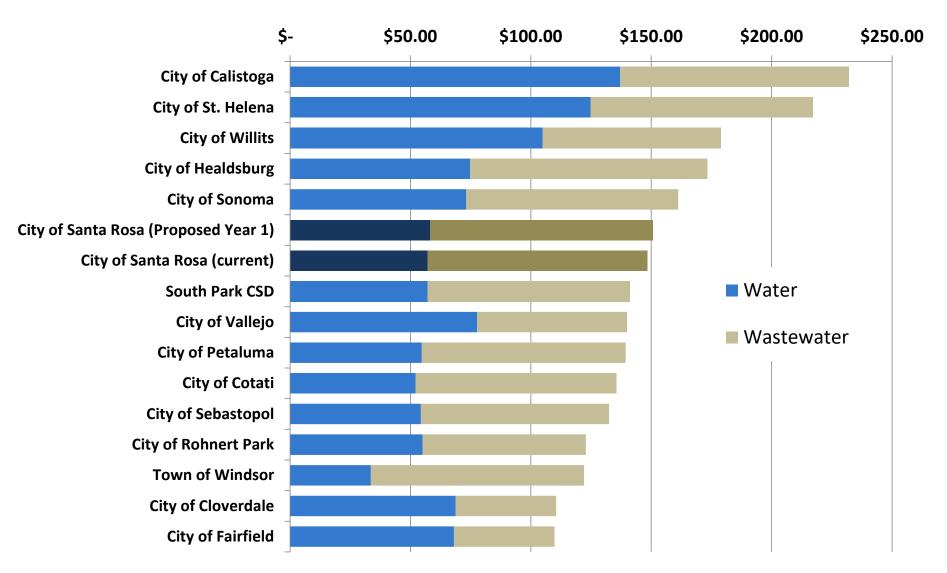
Monthly Bill Impacts – Average Residential Bill

- Four residents
 - ✓ 7,000 gallons of water
 - ✓ 4.4 Sewer Cap (4,400 gallons)
- Current bill \$148.34
- Monthly increase by Year
 - ✓ July 2021 \$2.38
 - ✓ July 2022 \$3.59
 - ✓ July 2023 \$3.68
 - ✓ July 2024 \$4.39



Regional Water & Wastewater Rate Survey*

For single family homes with 7,000 Gallons of water usage



* Where available the rates are those adopted to be implemented on July 1, 2021

Water Shortage Contingency Plan



Water Shortage Contingency Plan

WSCP is a component of the State-mandated Urban Water Management Plan (UWMP), which is updated every five years

- UWMP and WSCP last updated in 2016
- New updates to be adopted in 2021
- The State has prescribed water shortage stages, each with water use reduction goals
- The City's proposed WSCP includes 8 water shortage stages

Water shortage charges (WSC) and Excess Use Penalties (EUP) are part of the City's financial strategy for dealing with shortage conditions

Proposed WSCP Shortage Charges and Penalties

		Use Reduction	WSC	EUP
Stage 1	Voluntary	Up to 10%		
Stage 2	Mandatory	11% to 15%	\checkmark	
Stage 3	Mandatory	16% to 20%	\checkmark	
Stage 4	Mandatory	21% to 25%	\checkmark	
Stage 5	Mandatory	26% to 30%	\checkmark	\checkmark
Stage 6	Mandatory	31% to 40%	\checkmark	\checkmark
Stage 7	Mandatory	41% to 50%	\checkmark	\checkmark
Stage 8	Mandatory	Over 50%	\checkmark	\checkmark

WSC = Water shortage charge

EUP = Excess use penalty

Three-Pronged Financial Strategy to Bridge the Financial Deficit Created by Shortage Conditions

- 1. Utilize a portion of available financial reserves
 - >Undesignated and/or catastrophic reserves
- 2. Implement a water shortage charge*
- 3. Defer a portion of the capital improvement program

* Excess use penalties would be imposed in Stages 5, 6, 7, and 8, but are not expected to generate any revenue, as the penalties can be avoided.

Water Shortage Rate Structures – July 2021 (1)

		Water Use Reduction Ranges									
	Normal Water Usage Rates	Stage 2 Mandatory 11% to 15%	Stage 3 Mandatory 16% to 20%	Stage 4 Mandatory 21% to 25%	Stage 5 Mandatory 26% to 30%	Stage 6 Mandatory 31% to 40%	Stage 7 Mandatory 41% to 50%	Stage 8 Mandatory Over 50%			
Water Shortage	Charge (2)>	5%	7.5%	10%	15%	25%	35%	45%			
Tier 2 Excess Use Penalty (3)> Tier 3 Excess Use Penalty (3)>					10% 20%	25% 50%	40% 80%	50% 100%			
Water Usage Rates (\$/1,000) gallons)										
Single Family and Duplex Ac	counts										
Tier 1	\$5.97	\$6.27	\$6.42	\$6.57							
Tier 2	\$6.76	\$7.10	\$7.27	\$7.44							
Single Family with No Irrig N	eeds										
All water use	\$5.97	\$6.27	\$6.42	\$6.57							
Multi-Family/Comm./Indus./	Inst.										
All water use	\$6.30	\$6.62	\$6.77	\$6.93							
Irrigation (potable water)											
Tier 1	\$6.06	\$6.36	\$6.51	\$6.67							
Tier 2	\$7.51	\$7.89	\$8.07	\$8.26							
Irrigation (recycled water)											
Tier 1	\$5.76	\$6.05	\$6.19	\$6.34							
Tier 2	\$7.51	\$7.89	\$8.07	\$8.26							
All Water Customers											
Tier 1 - Up to 100% of water alloc. (3)					\$7.25	\$7.88	\$8.51	\$9.14			
Tier 2 - 101% to 150% of	water alloc. (4)				\$7.98	\$9.85	\$11.91	\$13.71			
Tier 3 - Over 150% of wat	er alloc. (4)				\$8.70	\$11.82	\$15.32	\$18.28			

Notes:

(1) Water shortage charges and excess use penalties are expressed as percentages applied to normal water usage rates. Monthly service charges are unaffected by the water shortage rates and charges. The normal water usage rates shown herein are the water usage rates proposed for July. 2021, and are used for illustrative purposes.

(2) When the water use reduction goal exceeds 10 percent the normal water usage rates are increased by the water shortage charge percentage shown. The water shortage charge increment provides supplemental revenue to help bridge the financial deficit created by shortage conditions.

(3) When the water use reduction goal exceeds 25 percent the 2-tier rate structures for single family, duplex, and irrigation accounts and the uniform water rate for other customer classes are replaced. The normal uniform water usage rate plus the indicated water shortage charge create a new Tier 1 water rate, applicable to water usage up to the allocation. Tier water allocations are defined for each customer class in the Water Shortage Contingency Plan. Excess use penalties then apply for use above the allocation.

(4) Water usage rates shown for Tier 2 and Tier 3, in Stages 5 through 8, include the water shortage charge and excess use penalty, as indicated.

Sample
Single
Family
Residential
Water Bills
(with Shortage Charges)

Shortage Stage	Single Family Use Reduction Goal	Monthly Water Use (Gallons)	Use Service		Water Water Usage Shortage Charge Charge		Excess Use Penalty		Total Monthly Water Bill		Change from Normal Bill (3)			
Average Single Family Customer Meeting Reduction Goals (1)														
Normal Conditions	0%	10,000	\$	14.25	\$	64.84		n/a		n/a	\$	79.09		
Stage 1 Voluntary	10%	9,000	\$	14.25	\$	58.08		n/a		n/a	\$	72.33	\$	(6.76)
Stage 2 Mandatory	15%	8 <mark>,</mark> 500	\$	14.25	\$	54.70	\$	2.73		n/a	\$	71.68	\$	(7.41)
Stage 3 Mandatory	20%	8,000	\$	14.25	\$	51.32	\$	3.85		n/a	\$	69.41	\$	(9.67)
Stage 4 Mandatory	25%	7,500	\$	14.25	\$	47.94	\$	4.79		n/a	\$	66.98	\$	(12.11)
Stage 5 Mandatory	(2)	6 , 500	\$	14.25	\$	41.18	\$	6.18	\$	-	\$	61.60	\$	(17.48)
Stage 6 Mandatory	(2)	4,900	\$	14.25	\$	30.36	\$	7.59	\$	-	\$	52.20	\$	(26.89)
Stage 7 Mandatory	(2)	3,200	\$	14.25	\$	19.10	\$	6.69	\$	-	\$	40.04	\$	(39.04)
Stage 8 Mandatory	(2)	2,700	\$	14.25	\$	16.12	\$	7.25	\$	-	\$	37.62	\$	(41.46)
Average Single Family	Customer Wit	th No Water L	lse R	eduction	(1)									
Normal Conditions	0%	10,000	\$	14.25	\$	64.84		n/a		n/a	\$	79.09		
Stage 1 Voluntary	10%	10,000	\$	14.25	\$	64.84		n/a		n/a	\$	79.09	\$	-
Stage 2 Mandatory	15%	10,000	\$	14.25	\$	64.84	\$	3.24		n/a	\$	82.33	\$	3.24
Stage 3 Mandatory	20%	10,000	\$	14.25	\$	64.84	\$	4.86		n/a	\$	83.95	\$	4.86
Stage 4 Mandatory	25%	10,000	\$	14.25	\$	64.84	\$	6.48		n/a	\$	85.57	\$	6.48
Stage 5 Mandatory	(2)	10,000	\$	14.25	\$	64.84	\$	9.73	\$	4.30	\$	93.11	\$	14.03
Stage 6 Mandatory	(2)	10,000	\$	14.25	\$	64.84	\$	16.21	\$	32.05	\$	127.34	\$	48.25
Stage 7 Mandatory	(2)	10,000	\$	14.25	\$	64.84	\$	22.69	\$	131.29	\$	233.07	\$	153.98
Stage 8 Mandatory	(2)	10,000	\$	14.25	\$	64.84	\$	29.18	\$	230.67	\$	338.94	\$	259.85

Notes:

(1) Assumes single family customer with 5/8" meter, a 3-person household, summertime irrigation, and a sewer cap of 3,500 gallons.

(2) During Stages 5, 6, 7, and 8 customers would be subject to specific water allocations in order to meet required use reduction targets.

(3) Comparison is with water bill based on normal water usage and standard water rates.

Value of Water Campaign

Investing in our public water system is critical

Using the power of video to boost engagement

Connecting with customers through:

- City Connections eNewsletter
- Social media
- Digital advertising
- srcity.org/water
- Bill inserts
- Radio



Rate Setting Next Steps

- City Council Study Session March 2021
- Prop. 218 notifications mailing March 2021
- City Council Public Hearing May 2021

Recommendation

1† is recommended by the Board of Public Utilities Budget Subcommittee and Santa Rosa Water that the Board of Public Utilities, by three resolutions, recommend that, after compliance with applicable law and conduct of a public hearing pursuant to Proposition 218 on or about May 25, 2021, the City Council 1) enact increased charges and rates for water services; 2) enact increased charge and rates for wastewater services; and 3) adopt a change to the Water Shortage Rate Structure.