Western Hills Water District Water Rate Study

Board Meeting – Project Status Update September 29, 2021

HF&H Consultants, LLC



Agenda

- Introductions
- Purpose of the Meeting
- Current Rates, Rate Structure, and Revenues
- Revenue Requirements
- Proposed Rates
- Bill Comparisons (current vs proposed rates)
- Questions & Discussion

Purpose of the Meeting

- Inform Board and public of the rate study process and status
- Present analysis
- Elicit input from Board members

Current Rates, Rate Structure, and Observations

	Service	Charge	Usage Charge				
Customer Class	Per Month	% of Revenue	Per Unit/mo. ¹	% of Revenue			
Treated Water							
Residential	\$100.69	84%	\$1.49	16%			
Residential - HOA	\$0.00	0%	\$5.87	100%			
Non-Residential ²	\$0.00	<u>0%</u>	\$5.87	<u>100%</u>			
Combined %		78%		22%			
Raw Water	\$0.00	0%	\$4.01 = \$1,747,63/AF	100%			

¹ Unit = 750 gallons

² Non-residential includes COAs, District office, clubhouse, fire station

Observations:

- 78% of revenue coming from fixed charges provides the District a high-level of revenue reliability
- Current revenue < cost of service.
- Current rates do not allow for contributions to operating or capital reserves

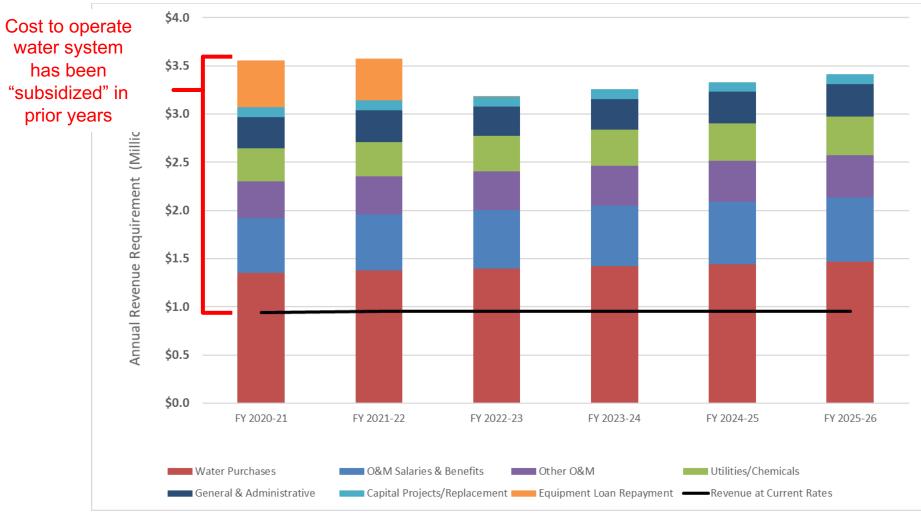
Revenue at Current Rates ~ \$931,000

				F	Projected			P	rojected		
		Current			Annual				Annual	Å	Annual
		Meter	Current	Ser	vice Charge	-	Current	Usa	ge Charge	R	evenue
1		<u>Count</u>	Service Chg	I	<u>Revenue</u>	Usage (per Unit)	Usage Charge	<u>R</u>	evenue	Cur	rent Cust.
2			per meter per mo				per 750 gal/unit				
3	Treated Water										
4	Residential	588	\$100.69	\$	710,469	100,702	\$1.49	\$	150,047	\$	860,515
5	Residential HOA	<u>4</u>	\$0.00	\$	-	8,342	\$5.87	\$	48,968		48,968
6	Subtotal Residential	592			710,469	109,044			199,014		909,483
7					78%				22%		
8	Non-Residential										
9	Commercial Owners Assoc (COA) (2")	8	\$0.00		-	3,639	\$5.87	\$	21,364		21,364
10	Golf Course				-						
11	1" Meter	1	\$0.00			-	\$5.87		-		-
12	2" Meter	1	\$0.00			-	\$5.87		-		-
13	District Office	1	\$0.00		-	117	\$5.87		689		689
14	Fire Station	1	\$0.00		-	25	\$5.87		144		144
15	Subtotal Non-Residential	12			-	3,781			22,197		22,197
16											
17	Total Treated Water	604		\$	710,469	112,826		\$	221,211	\$	931,680
18					76%				24%		
19	Raw Water										
20	Vineyard	1	\$0.00	\$	-	-	\$4.01	\$	-	\$	-
21	Golf Course	1	\$0.00		-	-	\$4.01		-		-
22	2" Meter (COA #9)	1				-	\$4.01		-		-
23	Total Raw Water	3		\$	-	-		\$	-	\$	-
24 25	Grand Total	607		\$	710,469	112,826		\$	221,211	\$	931,680

Assumptions:

- CY 2019 use increased by a factor of 1.30 per District estimate
- Golf course and vineyard no longer receiving water; Historical use: ~200,000 CCF per year

Projected Revenue Requirements



• Revenue line includes \$12,000 – 28,000 annually of non-operating revenue

Revenue Requirements – Key Assumptions

FY 2021-22 Net Revenue Requirement from Water Rates = ~\$3.55 million

		•				-	
Annual Revenue Requirement	F	Y 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
Water Purchases	\$	1,351,686	\$ 1,373,930	\$ 1,396,547	\$ 1,419,544	\$ 1,442,926	\$ 1,466,702
O&M Salaries & Benefits		568,659	587,262	606,547	626,544	647,285	668,803
Utilities/Chemicals		344,020	354,341	364,971	375,920	387,198	398,813
Other O&M		381,227	391,938	402,951	414,272	425,913	437,880
Equipment Loan Repayment		483,127	437,676	4,798	0	0	0
General & Administrative		324,720	330,784	308,848	317,733	326,881	336,301
Capital Projects/Replacement		101,660	101,660	101,660	101,660	101,660	101,660
Total Expenses		3,555,098	3,577,590	3,186,321	3,255,673	3,331,862	3,410,160
(Less) Non-Rate Revenue		(11,925)	(25,459)	(26,172)	(26,904)	(27,658)	(28,432)
Net Revenue Requirement		3,543,173	3,552,132	3,160,149	3,228,768	3,304,205	3,381,728
Annual increase			0.3%	-11.0%	2.2%	2.3%	2.3%

- Started with TOTAL District-wide FY 2019-20 budget, adjusted as follows:
 - Annual inflationary adjustments:
 - 2.8% general inflation (CPI) -- 8.0% benefits
 - 3.0% salaries/wages -- 3.0% Utilities
 - Excludes sanitary sewer and storm sewer expenses (~\$700-820k)
- Equipment loans will be paid off by end of FY 2022-23

FY 2021-22 Cost-of-Service Rates

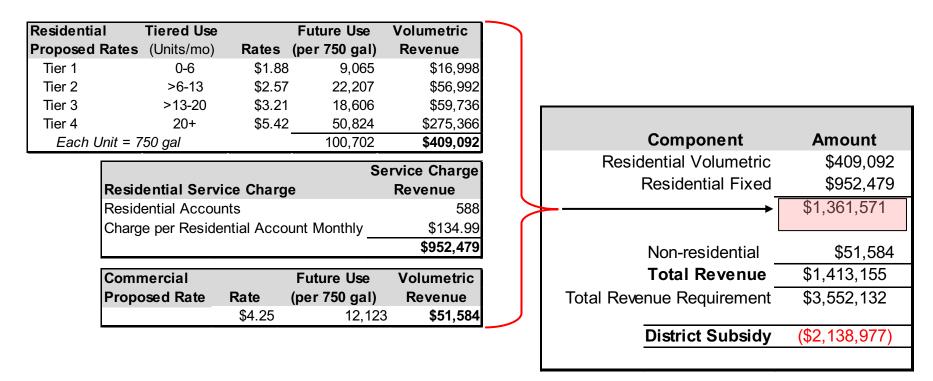
Monthly Proposed Rates						
Residential Charge per Account \$134.99						
Residential	Tiered Use					
Consumption Rates	(Units/mo)					
Tier 1	0-6	\$1.88				
Tier 2	>6-13	\$2.57				
Tier 3	>13-20	\$3.21				
Tier 4	20+	\$5.42				
Commercial Consum	\$4.25					
Each Unit = 750 g	al for all customers					

- Residential Tiers calculated from 2019 Use
 - **Tier 1** = Winter water use, 2 lowest months of the year (February, March)
 - ~6 units/month (4,500 gallons = 150 gal/day)
 - **Tier 2** = Annual residential consumption divided by number of accounts
 - 13 units/month (9,750 gallons = 325 gal/day)
 - Tier 3 = Max Day Demand
 - 1.5 x Tier 2 = 20 units monthly

(15,000 gallons = 500 gal/day)

- **Tier 4** = Usage greater than 20 units per month
 - >500 gal/day

FY 2021-22 Proposed Rates



Proposed Rates do NOT eliminate shortfall

- Proposed Rates reduce shortfall current rate revenues would generate by ~\$480,000
- \$1,410,000 vs. \$931,000 at projected consumption

Sample Bill Impacts

Bill Impacts	Monthly Service Charge	Monthly Usage (750 gal)	Charge per 750 gal	Total Bill (Service + Usage	
Low Water Use Month (50% of average)	<u>_</u>				
@ Current Rates	\$100.69	6.5	\$1.49	\$9.69	\$110.38
@ Proposed Rates Tier 1	\$134.99	6.0	\$1.88	\$11.25	\$146.24
@ Proposed Rates Tier 2		0.5	\$2.57	\$1.28	\$1.28
@ Proposed Rates			•		\$147.52
			N	lonthly \$ Impact	\$37.15
Average Water Use Month					
@ Current Rates	\$100.69	13.0	\$1.49	\$19.37	\$120.06
@ Proposed Rates Tier 1	\$134.99	6.0	\$1.88	\$11.25	\$146.24
@ Proposed Rates Tier 2		7.0	\$2.57	\$17.96	\$17.96
@ Proposed Rates					\$164.20
			N	Ionthly \$ Impact	\$44.14
High Water Use Month (2x average)					
@ Current Rates	\$100.69	26.0	\$1.49	\$38.74	\$139.43
@ Proposed Rates Tier 1	\$134.99	6.0	\$1.88	\$11.25	\$146.24
@ Proposed Rates Tier 2		7.0	\$2.57	\$17.96	\$17.96
@ Proposed Rates Tier 3		7.0	\$3.21	\$22.47	\$22.47
@ Proposed Rates Tier 4		6.0	\$5.42	\$32.51	\$32.51
@ Proposed Rates					\$219.19
			N	Ionthly \$ Impact	\$79.76
Very High Water Use Month (3x average)	<u> </u>				
@ Current Rates	\$100.69	39.0	\$1.49	\$58.11	\$158.80
@ Proposed Rates Tier 1	\$134.99	6.0	\$1.88	\$11.25	\$146.24
@ Proposed Rates Tier 2		7.0	\$2.57	\$17.96	\$17.96
@ Proposed Rates Tier 3		7.0	\$3.21	\$22.47	\$22.47
@ Proposed Rates Tier 4		19.0	\$5.42	\$102.94	\$102.94
@ Proposed Rates					\$289.62
			N	Ionthly \$ Impact	\$130.82



Monthly Water Rates Comparison

Average water usage bills (13 units – 9,750 gallons = 325 gal/day):

Jurisdiction	Fixed	С	ommodity	Total	
City of Tracy	\$	30.90	\$	26.13	\$ 57.03
City of Modesto	\$	36.11	\$	25.74	\$ 61.85
Oakwood Lake Water District	\$	55.50	\$	21.84	\$ 77.34
Golden Hills Community Services District	\$	29.01	\$	44.43	\$ 73.44
Mountain House	\$	77.65	\$	11.18	\$ 88.83
Western Hills (Current)	\$	100.69	\$	19.37	\$ 120.06
Western Hills Water District (COS)	\$	134.99	\$	29.22	\$ 164.20

Assumptions:

- Residential Rates
- 1" meter

Jurisdiction	Fixed	Сс	ommodity	Total
City of Tracy	\$ 30.90	\$	52.26	\$ 83.16
City of Modesto	\$ 36.11	\$	51.48	\$ 87.59
Oakwood Lake Water District	\$ 55.50	\$	43.68	\$ 99.18
Mountain House	\$ 77.65	\$	22.37	\$ 100.02
Golden Hills Community Services District	\$ 29.01	\$	92.01	\$ 121.02
Western Hills (Current)	\$ 100.69	\$	38.74	\$ 139.43
Western Hills Water District (COS)	\$ 134.99	\$	84.20	\$ 219.19

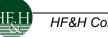
High water usage bills (26 units – 19,500 gallons = 750 gal/day):



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Preliminary – For Discussion Purposes Only - Subject to Revision

QUESTIONS & DISCUSSION



How to Handle Water Banking Revenue?

- Preliminary rates assume water banking revenue is not used to "buy down" the rates.
- 2. Options:
 - A. "Buying down" the rates by \$100k reduces necessary rate increases by 10% (~\$31/month). Presents a risk that actual water banking revenues are less than the "buy down" in the rates.
 - B. Provide a credit on bills when actual banking revenue is received.
 - C. Save water banking revenue in a reserve account to cover unexpected expenses
 - D. Combination of Options A, B, and C
 - E. Combination of Options B and C

	Water Banking
	Income
Year	Received
2011	\$ 816, 183.98
2012	\$ 602,255.01
2013	\$ 404,360.00
2014	\$ (285,178.01)
2015	\$ 141,962.00
2016	\$ 668,999.65
2017	\$ 1,006,044.99
2018	\$ 159,329.00
2019	\$ 964,720.00
Average	\$ 497,630.74

