

Budget

Irrigation Water

Tax Split 50% - 50%

Option 3

EXPENSES AND SOURCES OF FUNDS	2017	2018	2019	2020	2021
OPERATIONS & MAINTENANCE EXPENSES					
Personnel Related	1,010,085.13	1,057,894.47	1,108,838.79	1,154,040.79	1,177,121.61
Materials and Supplies	28,784.44	30,223.66	31,734.85	33,321.59	33,988.02
Rental/Durable	15,808.95	16,599.40	17,429.37	18,300.84	18,666.86
Staff Development	3,232.67	3,394.31	3,564.02	3,742.22	3,817.07
Travel--Conference	2,708.41	2,843.83	2,986.02	3,135.32	3,198.03
Utilities	14,419.87	15,140.86	15,897.90	16,692.80	17,026.65
Vehicle & Equipment Maintenance	2,372.19	2,490.80	2,615.34	2,746.10	2,801.02
Vehicle Operations	15,015.97	15,766.77	16,555.11	17,382.87	17,730.53
Building Maintenance	2,669.15	2,802.61	2,942.74	3,089.88	3,151.68
Govt. Reg./Lab Fees	28,235.41	29,647.18	31,129.54	32,686.01	33,339.73
Outside Service/Consultants	46,167.03	48,475.39	50,899.15	53,444.11	54,512.99
		0.00	0.00	0.00	0.00
Total Operation and Maintenance Expenses:	1,169,499.23	1,225,279.28	1,284,592.84	1,338,582.54	1,365,354.19
GENERAL & ADMINISTRATIVE EXPENSES					
Retiree Health Premium	42,706.00	44,842.00	47,084.00	49,438.00	50,426.76
Debt Reserve	0.00	0.00	0.00	0.00	0.00
Operating Reserve	8,011.25	8,011.25	8,011.25	8,011.25	8,011.25
Emergency Reserve	0.00	0.00	0.00	0.00	0.00
Existing Capital Replacement Program	369,747.83	364,974.01	364,974.01	364,974.01	364,974.01
Funded Project Replacement Program	0.00	0.00	0.00	0.00	0.00
Future Capital Improvement Program	0.00	0.00	0.00	0.00	0.00
Debt Payments (Principle + Interest)	1,043.74	1,043.74	0.00	0.00	0.00
Legal, Audit, Insurance,	58,056.40	60,959.22	64,007.18	67,207.54	68,551.69
Other General & Administrative	55,013.08	57,763.73	60,651.92	63,684.51	64,958.20
Total General and Administrative Expenses:	534,578.30	537,593.95	544,728.36	553,315.31	556,921.91
TOTAL EXPENSES	1,704,077.53	1,762,873.23	1,829,321.19	1,891,897.85	1,922,276.10
SOURCE OF FUNDS / REVENUES RECEIVED					
Water Revenue	852,038.76	937,242.64	1,030,966.91	1,134,063.60	1,247,469.96
Property Tax	784,500.00	800,190.00	816,193.80	832,517.68	849,168.03
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
TOTAL REVENUE (Lines 29 through 37):	1,636,538.76	1,737,432.64	1,847,160.71	1,966,581.27	2,096,637.98
NET LOSS OR GAIN:	-67,538.76	-25,440.59	17,839.51	74,683.42	174,361.89
NET CASH FLOW (Contribution to Reserves)	310,220.32	347,544.68	390,824.77	447,668.68	547,347.15

New Rates: Irrigation TW/IW 50/50 Split (Option 3)

Meter Size (MI)	Meter Size (metric)	Theoretical Seasonal Rate by MI	% of Theoretical Rate	Proposed Base Charge for Year 1	Year 2	Year 3	Year 4	Year 5
Future Increases					10.0%	10.0%	10.0%	10.0%
1/2"	0.500	\$1,370	50%	\$685	\$753	\$829	\$912	\$1,003
1"	1.000	\$2,740	50%	\$1,370	\$1,507	\$1,658	\$1,823	\$2,006
1.5"	1.500	\$4,110	50%	\$2,055	\$2,260	\$2,486	\$2,735	\$3,008
2"	2.000	\$5,479	50%	\$2,740	\$3,014	\$3,315	\$3,647	\$4,011
2.5"	2.500	\$6,849	50%	\$3,425	\$3,767	\$4,144	\$4,558	\$5,014
3"	3.000	\$8,219	50%	\$4,110	\$4,520	\$4,973	\$5,470	\$6,017
3.5"	3.500	\$9,589	50%	\$4,794	\$5,274	\$5,801	\$6,381	\$7,020
4"	4.000	\$10,959	50%	\$5,479	\$6,027	\$6,630	\$7,293	\$8,022
5"	5.000	\$13,698	50%	\$6,849	\$7,534	\$8,288	\$9,116	\$10,028
6"	6.000	\$16,438	50%	\$8,219	\$9,041	\$9,945	\$10,940	\$12,033
7"	7.000	\$19,178	50%	\$9,589	\$10,548	\$11,603	\$12,763	\$14,039
8"	8.000	\$21,917	50%	\$10,959	\$12,055	\$13,260	\$14,586	\$16,045
9"	9.000	\$24,657	50%	\$12,329	\$13,561	\$14,918	\$16,409	\$18,050
10"	10.000	\$27,397	50%	\$13,698	\$15,068	\$16,575	\$18,233	\$20,056
12"	12.000	\$32,876	50%	\$16,438	\$18,082	\$19,890	\$21,879	\$24,067
15"	15.000	\$41,095	50%	\$20,548	\$22,602	\$24,863	\$27,349	\$30,084
16"	16.000	\$43,835	50%	\$21,917	\$24,109	\$26,520	\$29,172	\$32,089
18"	18.000	\$49,314	50%	\$24,657	\$27,123	\$29,835	\$32,819	\$36,100
20"	20.000	\$54,793	50%	\$27,397	\$30,136	\$33,150	\$36,465	\$40,112
25"	25.000	\$68,492	50%	\$34,246	\$37,671	\$41,438	\$45,581	\$50,139
30"	30.000	\$82,190	50%	\$41,095	\$45,205	\$49,725	\$54,698	\$60,167
40"	40.000	\$109,587	50%	\$54,793	\$60,273	\$66,300	\$72,930	\$80,223
43"	43.000	\$117,806	50%	\$58,903	\$64,793	\$71,273	\$78,400	\$86,240

Expenses from Budget	\$ 1,704,078	\$ 1,762,873	\$ 1,829,321	\$ 1,891,898	\$ 1,922,276
Income Generated by the Selected Rate	\$ 852,039	\$ 937,243	\$ 1,030,967	\$ 1,134,064	\$ 1,247,470
Net Gain or Loss	-67,539	-25,441	17,840	74,683	174,362
Balanced Budget?	No	No	Yes	Yes	Yes
Contributions to Reserve	\$ 310,220	\$ 347,545	\$ 390,825	\$ 447,669	\$ 547,347
Target Contribution to Reserve	\$ 377,759	\$ 372,985	\$ 372,985	\$ 372,985	\$ 372,985

Budget


Treated Water

Tax Split 50% - 50%


Option 3

EXPENSES AND SOURCES OF FUNDS	2017	2018	2019	2020	2021
OPERATIONS & MAINTENANCE EXPENSES					
Personnel Related	1,999,518.21	2,081,721.95	2,168,566.51	2,251,341.22	2,296,368.04
Materials and Supplies	147,315.56	154,681.34	162,415.40	170,536.17	173,946.90
Rental/Durable	9,191.05	9,650.60	10,133.13	10,639.79	10,852.58
Staff Development	8,419.81	8,840.80	9,282.84	9,746.98	9,941.92
Travel--Conference	7,759.10	8,147.05	8,554.41	8,982.13	9,161.77
Utilities	180,729.69	189,766.18	199,254.48	209,217.21	213,401.55
Vehicle & Equipment Maintenance	2,627.81	2,759.20	2,897.16	3,042.02	3,102.86
Vehicle Operations	20,484.03	21,508.23	22,583.64	23,712.82	24,187.08
Building Maintenance	6,675.63	7,009.41	7,359.88	7,727.88	7,882.44
Govt. Reg./Lab Fees	55,904.33	58,699.55	61,634.53	64,716.25	66,010.58
Outside Service/Consultants	57,996.31	60,896.12	63,940.93	67,137.98	68,480.73
		0.00	0.00	0.00	0.00
Total Operation and Maintenance Expenses:	2,496,621.52	2,603,680.43	2,716,622.91	2,826,800.44	2,883,336.45
GENERAL & ADMINISTRATIVE EXPENSES					
Retiree Health Premium	90,810.00	95,350.62	100,118.15	105,124.06	107,226.54
Debt Reserve	0.00	0.00	0.00	0.00	0.00
Operating Reserve	0.00	0.00	0.00	0.00	0.00
Emergency Reserve	0.00	0.00	0.00	0.00	0.00
Existing Capital Replacement Program	1,995,633.36	1,991,412.99	1,823,748.89	1,823,748.89	1,823,748.89
Funded Project Replacement Program	0.00	0.00	0.00	0.00	0.00
Future Capital Improvement Program	0.00	0.00	0.00	0.00	0.00
Debt Payments (Principle + Interest)	59,348.26	59,348.26	144,112.12	144,112.12	144,112.12
Legal, Audit, Insurance,	125,567.54	131,845.92	138,438.21	145,360.12	148,267.33
Other General & Administrative	105,037.25	110,289.11	115,803.57	121,593.75	124,025.62
Total General and Administrative Expenses:	2,376,396.41	2,388,246.90	2,322,220.95	2,339,938.95	2,347,380.51
TOTAL EXPENSES	4,873,017.93	4,991,927.33	5,038,843.87	5,166,739.39	5,230,716.96
SOURCE OF FUNDS / REVENUES RECEIVED					
Water Revenue	3,395,740.77	3,590,621.92	3,796,386.39	4,000,022.71	4,200,082.22
Property Tax	784,500.00	808,035.00	832,276.05	857,244.33	882,961.66
SMUD, Hydro, Leases, Interest, etc	293,300.00	299,166.00	305,149.32	311,252.31	317,477.35
Hydro	-60,000.00	-61,200.00	-62,424.00	-63,672.48	-64,945.93
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
TOTAL REVENUE (Lines 29 through 37):	4,413,540.77	4,636,622.92	4,871,387.76	5,104,846.86	5,335,575.31
NET LOSS OR GAIN:	-459,477.16	-355,304.42	-167,456.11	-61,892.52	104,858.35
NET CASH FLOW (Contribution to Reserves)	1,536,156.20	1,636,108.57	1,656,292.78	1,761,856.37	1,928,607.24

Base Rate Calculation for Treated Water (Tax split TW/IW 50/50, Option 3)

Meter Size	Theoretical Bi-Monthly Base Rate by Meter Size	Base Rate as % of Theoretical Rate	Existing Base Rate	Proposed Base Charge for Year 1	Year 2	Year 3	Year 4	Year 5
Future Increases 					5.0%	5.0%	5.0%	5.0%
5/8"	\$82.68	100%	\$47.14	\$ 82.68	\$86.82	\$91.16	\$95.72	\$100.51
3/4"	\$124.02	100%	\$47.14	\$ 124.02	\$130.22	\$136.73	\$143.57	\$150.75
1"	\$206.70	100%	\$47.14	\$ 206.70	\$217.04	\$227.89	\$239.28	\$251.24
1.5"	\$413.41	100%	\$47.14	\$ 413.41	\$434.08	\$455.78	\$478.57	\$502.50
2"	\$661.45	100%	\$47.14	\$ 661.45	\$694.53	\$729.26	\$765.72	\$804.01
3"	\$1,322.90	100%	\$47.14	\$ 1,322.90	\$1,389.05	\$1,458.50	\$1,531.43	\$1,608.00
4"	\$2,067.04	100%	\$50.32	\$ 2,067.04	\$2,170.39	\$2,278.91	\$2,392.86	\$2,512.50

Usage Rate Calculation

Tier	Bottom of Tier	Top of Tier	Usage Rate for Year 1	Year 2	Year 3	Year 4	Year 5	Current
Future Increases 				5.0%	5.0%	5.0%	5.0%	
1	-	20	\$2.2500	\$2.36	\$2.48	\$2.60	\$2.73	
2	21	999,999	\$2.2500	\$2.36	\$2.48	\$2.60	\$2.73	\$ 1.38
3	1,000,000	999,999	\$2.2500	\$2.36	\$2.48	\$2.60	\$2.73	\$ 1.65
4	1,000,000	999,999	\$2.2500	\$2.36	\$2.48	\$2.60	\$2.73	\$ 1.93
5	1,000,000	999,999	\$2.2500	\$2.36	\$2.48	\$2.60	\$2.73	\$ 2.21

	Year 1	Year 2	Year 3	Year 4	Year 5	
Estimated profit/loss with new rates	-459,477	-355,304	-167,456	-61,893	104,858	
Balanced Budget?	No	No	No	No	Yes	
Estimate contribution to Reserves	1,536,156	1,636,109	1,656,293	1,761,856	1,928,607	
Affordability Index MHI	46,700.00	3.24%	3.43%	3.63%	3.82%	4.01%
Project funding \$30.16/2 months		0.39%	0.39%	0.39%	0.39%	0.39%
Afforability of total rate		3.63%	3.82%	4.01%	4.21%	4.40%