BUDGET CALCULATOR GUIDELINES

minimum flat monthly rate per customer.

This is a simple budget calculator to be used for a small water system. It is an Excel spreadsheet that consists of three tabs which are located near the bottom of your screen: the **5-Year Budget Projection** tab, the **Capital Improvement Plan (CIP)** tab, and this **Guidelines** tab. All three sheets including the instructions are formatted to print on standard 8.5 x 11 inch paper. When the pertinent expense figures have been inserted, the program will calculate a

Be sure to use only the expenses and revenues related to the water system. For example, if the bill for electricity covers the entire establishment, estimate the amount of electricity that the water system uses. The number of connections can be changed to enable the user to factor in growth or costs associated with a certain portion of the system. The inflation factor percentage can also be changed.

Sample numbers have been inserted into both spreadsheets. The yellow shaded cells are for data entry. The two orange cells are linked from the CIP on the third tab. Except for line item descriptions which can be changed if needed, all other cells are locked for the calculations. To calculate the actual budget for the water system, remove the sample numbers in the yellow shaded cells and enter the actual figures for your system.

On the Budget tab the spreadsheet automatically projects many costs over the next four years. Expenses in Years 2 through 5 are compounded automatically by the inflation factor in cell G6 which can be changed.

On the CIP tab there are examples of various water system components, numbers of components, unit costs, and equipment life expectancy. To determine the CIP for the water system enter the information for these categories specific to the system. Information on typical equipment life expectancy can be found at:

http://ww2.cdph.ca.gov/certlic/drinkingwater/Documents/TMFplanningandreports/Typical_life.pdf The CIP Annual Reserve total is linked to the Budget tab on Line 20, Existing Contribution to CIP to enable the monthly rate per customer to include the cost of replacing equipment that has served its useful life.

For funding projects include the new infrastructure components under the New Project CIP Costs at the bottom of the CIP tab. The total of these figures links to the Budget tab on Line 25, Additional New Project Contribution to CIP. In this example the existing budget is shown in Years 1 and 2. The grant or loan is received in Year 3, and the debt service is paid in Years 4, 5, and beyond. The Additional O&M for New Project costs is listed in the expense section of the Budget tab beginning in Year 4 since these costs are not included in the funding.

If you have further questions, please call the Drinking Water Capacity Development Coordinator George Faggella at 916-449-5652.

FIVE YEAR BUDGET PROJECTION (Small Community Water System)

INSTRUCTIONS: Yellow-shaded cells are for data entry; all other cells are locked except line item descriptions which can be changed if needed. Years 2 through 5 will be compounded automatically by the inflation factor in Cell G6.

System Name: Inflation Factor (%): 3.0

APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT System ID Number: 3600008

LINE	EXPENSES AND SOURCE OF FUNDS	2023	2024	2025	2026	2027	
1	1 OPERATIONS AND MAINTENANCE (O&M) EXPENSES						
2	Source of Supply	3,028.00	3,118.84	3,212.41	3,308.78	3,408.04	
3	Pumping	20,042.00	20,643.26	21,262.56	21,900.43	22,557.45	
4	Transmission and Distribution	40,820.00	42,044.60	43,305.94	44,605.12	45,943.27	
5	General and Administrative	89,362.00	92,042.86	94,804.15	97,648.27	100,577.72	
6	Depreciation	35,373.00	36,434.19	37,527.22	38,653.03	39,812.62	
7			0.00	0.00	0.00	0.00	
8			0.00	0.00	0.00	0.00	
9			0.00	0.00	0.00	0.00	
10			0.00	0.00	0.00	0.00	
11			0.00	0.00	0.00	0.00	
12			0.00	0.00	0.00	0.00	
13	Additional O&M for New Project	0.00	0.00	0.00	2,000.00	2,060.00	
14	Total O&M Expenses	188,625.00	194,283.75	200,112.26	208,115.63	214,359.10	
16	GENERAL AND ADMINISTRATIVE EXPENSES						
17	Engineering and Professional Services		0.00	0.00	0.00	0.00	
18	Depreciation and Amortization		0.00	0.00	0.00	0.00	
19	Insurance		0.00	0.00	0.00	0.00	
20	Existing Contribution to CIP (From CIP J48)	94,917.27	94,917.27	94,917.27	94,917.27	94,917.27	
21	O&M Reserve	0.00	0.00	0.00	0.00	0.00	
22	Other Reserves	0.00	0.00	0.00	0.00	0.00	
23	Miscellaneous		0.00	0.00	0.00	0.00	
24	** New Funding Project Costs	0.00	0.00	250,000.00	0.00	0.00	
25	Additional New Project Contribution to CIP (From CIP J59)	0.00	0.00	0.00	1,166.67	1,166.67	
26	** Debt Service	0.00	0.00	0.00	10,000.00	10,000.00	
27	Total General and Administrative Expenses		94,917.27	344,917.27	106,083.93	106,083.93	
28	TOTAL EXPENSES (Line 14+ Line 27):	283,542.27	289,201.02	545,029.53	314,199.56	320,443.03	
30	REVENUES RECEIVED						
31	Cash Revenues (Water Rates)	259,618.00	260,000.00	280,000.00	285,000.00	290,000.00	
32	** Depreciation Reserves	0.00	0.00	0.00	0.00	0.00	
33	** Fees and Services	33,300.00	0.00	0.00	0.00	0.00	
34	** Hookup Charges	0.00	0.00	0.00	0.00	0.00	
35	** Withdrawal from CIP or Other Reserves	0.00	0.00	0.00	0.00	0.00	
36	** Other Fund Sources: Interest, Etc.	20,801.00	20,801.00	20,801.00	20,801.00	20,801.00	
37	** Grants	0.00	0.00	0.00	0.00	0.00	
38	** SRF Loan	170000.00	0.00	0.00	0.00	0.00	
39	** Business Loans	0.00	0.00	0.00	0.00	0.00	
40	TOTAL REVENUE (Lines 31 through 39):	483,719.00	280,801.00	300,801.00	305,801.00	310,801.00	
41	NET LOSS OR GAIN:	200,176.73	-8,400.02	-244,228.53	-8,398.56	-9,642.03	
D	ort Prenared by (Name and Title):		L		Date:		

Report Prepared by (Name and Title):

(** Inflation factor not applied to future year projections)

Date:

Number of Customers:
Average Monthly Revenue Needed Per Customer:

 2023
 2024
 2025
 2026
 2027

 243
 245
 247
 249
 251

 97.24
 98.37
 99.54
 105.15
 106.39

SIMPLIFIED CAPITAL IMPROVEMENT PLAN (CIP) Date: 9/20/2024 3600008 System ID No : System Name: APPLE VALLEY FOOTILL CWD Service Connections: 245 MONTHLY *Enter information only in YELLOW shaded cells RESERVE AVG UNIT **INSTALLED** LIFE, ANNUAL MONTHLY PER COST YEARS RESERVE CUSTOMER OTY COMPONENT COST RESERVE Drilled Well, 6", steel casing Depth: 2! 0.00 0.00 0.00 Drilled Well, 8", steel casing Depth: 130 0 0.00 0.00 0.00 500000 50000.00 Drilled Well, 12", steel casing Depth: 1000 4166.67 17.01 3000.00 1.02 30000 250.00 Submersible Pump, 20 HP 9000 7 0 0.00 0.00 0.00 Submersible Pump, 3 HP 2000 0 7 0.00 0.00 0.00 Submersible Pump, 5 HF 0 0.00 0.00 0.00 Booster Pump Station, 25 HP, complete 25000 1250.00 104.17 0.43 **Booster Pump Station Electrical Controls** 25000 40 25000 625.00 52.08 0.21 Pressure Tank 0.00 0.00 0.00 Gallons: 1.5 0 Pressure Tank Gallons: 1 5 0 0.00 0.00 0.00 Storage Tank, Plastic 0.5 0 10 0.00 Gallons: 0.00 0.00 Storage Tank, Redwood Gallons 1.3 0 40 0.00 0.00 0.00 40 0.00 0.00 0.00 Storage Tank, Redwood Gallons 50 10000.60 1613 (500030 Storage Tank, Steel Gallons: 833.38 3.40 Storage Tank, Steel Gallons: 1250.0 93750 50 1875.00 156.25 0.64 50 0.00 0.00 0.00 Storage Tank, Steel Gallons: 0 Gallons: 0 80 0.00 0.00 0.00 Master Meter, 2" 450 0 10 0.00 0.00 0.00 Master Meter, 3' 800 0 10 0.00 0.00 0.00 10 0.00 0.00 0.00 Hypochlorinator w/ Tank & Pump, Complete 1000 10 0 0.00 0.00 0.00 Pipe w/ sand bedding, 1" (Enter linear feet for quantity) 20 0 50 0.00 0.00 0.00 Pipe w/ sand bedding, 2" (Enter linear feet for quantity) Pipe w/ sand bedding, 4" (Enter linear feet for quantity) 0.00 0.00 0.00 0 30 0 50 0.00 0.00 0.00 Pipe w/ sand bedding, 6" (Enter linear feet for quantity) 0 50 0.00 0.00 0.00 50 50 Pipe w/ sand bedding, 8" (Enter linear feet for quantity) 0 0.00 0.00 0.00 Standpipe Hydrant, 1-1/2 700 0 20 0.00 0.00 0.00 Standpipe Hydrant, 2-1/2" 900 0 20 0.00 0.00 0.00 Customer Meter w/ Box & Shutoff, Complete 250 0 20 0.00 0.00 0.00 0 0.00 0.00 0.00 Distribution Valve, 2 Distribution Valve 4 250 10 Λ 0.00 0.00 0.00 Distribution Valve, 6" 600 0 20 0.00 0.00 0.00 850 20 0.00 0.00 0.00 Distribution Valve, 8' 0 300000 30 10000.00 833.33 3.40 Water Well No. 2 Rehabilation - Motor HP increase - Pedestal 125000 125000 15 8333.33 694.44 2.83 Electrical Panels - Lighting - Transfer Switch 4500 45000 30 1500.00 125.00 0.51 125000 15 8333.33 694.44 2.83 SUBTOTAL Existing CIP Costs \$1,768,780.00 \$7,909.77 \$32.28 \$94,917.2 **NEW Project CIP Costs** Iron & manganese removal plant 0 45 0.00 0.00 0.00 35000 New SCADA system -telemetry-35000 30 1166.67 97.22 0.40 OTHER ITEM 0.00 0.00 0 0.00 OTHER ITEM 0 0.00 0.00 0.00 0.00 OTHER ITEM 0 0.00 0.00 OTHER ITEM 0 0.00 0.00 0.00 OTHER ITEM 0 1 0.00 0.00 0.00 OTHER ITEM 0 0.00 0.00 0.00 SUBTOTAL New Project CIP Costs \$35,000.00 \$0.40 TOTAL Existing and New Project CIP: \$96,083.93 \$8,006.99 \$1,803,780.00 \$32.68 Report Prepared by (Title): Date:

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NOTE: Installed costs are averages and include all materials and contracted labor and equipment.