REPORT TO THE BOARD OF DIRECTORS BOARD MEETING OF JUNE 14th , 2022 AGENDA ITEM NO 9.C.



AGENDA NEW BUSINESS SECTION:

SUBJECT: CONSIDER THE RATE FREEZE AND RECEIVE INFORMATION ON THE SWRCB 2021 DRINKING WATER AFFORDABILITY ASSESSMENT REPORT

PREPARED BY: Adam Coyan, General Manager

APPROVED BY: Adam Coyan, General Manager

BACKGROUND

On September 13th, 2017, the Georgetown Divide Public Utilities District (District) Board of Directors (Board) adopted Resolution 2017-30 (Attachment 1) approving new rates after completing a rate study and conducting a Prop 218 hearing process.

On February 12th, 2019, the Board adopted Resolution 2019-14 (Attachment 2) freezing treated and irrigation water rates for no more than 12 months.

On January 9th, 2020 the Superior Court of The State of California County of Eldorado ruled that the Districts prop 218 was supported by substantial evidence and met the Districts burden of compliance with prop 218. (Attachment 3)

On February 11th, 2020, the board adopted Resolution 2020-08 (Attachment 4), to temporarily freeze the treated water rates until July 1st, 2020, and freeze the irrigation rates for the remainder of 2020.

The Board adopted Resolution 2021-03 (Attachment 5) freezing the rates until the end of the 2021 calendar year.

On December 14th, 2021 the board adopted resolution 2021-56 (Attachment 6) to temporarily freeze the treated water rates until June 30th, 2022 and freeze the irrigation rates for the remainder of 2022.

DISCUSSION

The current rate freeze that maintains the rate at the 2019 level is due to expire on June 30th, 2022, triggering the scheduled rate level to become effective on July 1st, 2022. The

Board has at least two options to consider: (1) allow the rate to increase on July 1st, 2022; to the full amount for residential and on January 1st 2023 for irrigationor (2) extend the rate freeze to a specific date.

The proposed FY 2022-2023 budget does not include a 5% rate increase scheduled to trigger on June 30th, 2022.

The California State Water Resource Control Board (SWRCB) created an affordability threshold for disadvantaged communities in the 2021 Drinking Water Affordability Assessment Report (Attachment 7). The report defines the <u>Affordability Threshold</u>: as the "level, point, or value that delineates if a water system's residential customer charges, designed to ensure the water systems can provide drinking water that meets State and Federal standards, are affordable."

Staff offers the following information to provide a preliminary comparison of water rates per Median Household Income to show the disparity in our current rates The median household income for the District service area is approximately \$77,389 based upon the 2020 census data from the United States Census Bureau; while the median household income for California is \$78,672. The Median household income in 2010 was only \$46,136. Median household income has increased 67% between 2010 and 2020. According to the inflation calculator the increase should have only been 32.6 %.

The last rate increase of record prior to the 2018, 218 was in 2011. By the sitting board not raising rates for such an extended period it put the district in dire circumstances and forced the district to increase rates at a steeper rate.

This is a comparison of water rates per median household income and shows the disparity in where our rates currently are at. To get grant funding for a Disadvantaged Community the water bill needs to be over the Affordability Threshold that is described below.

The California State Water Resource Control Board created an Affordability Threshold for Disadvantaged Communities. This is based upon what percent of the Median household income the bill should be. The formula is based upon an annual amount of 600 cubic feet a month. Which is equivalent to 50 gallons a day per person for a three-person household for 30 days. The minimum Affordability Threshold to qualify for grant funding is 1.5%, while the maximum is 2.5% of Median Household income.

Our current Median Household Income based upon our 2020 United States Census Bureau is \$77,389. If we applied the above monthly amount of usage of (600 CF * (1.5%) + (30.88) + (40.96) + (1.5%) + (40.96) +

Also consider that the rates prior to 2018 were way below where they needed to be. If we apply the 2011 Drinking Water Affordability Assessment formula to the 2010 rates compared to the median household income, we end up with an affordability threshold of (1.5%*\$46,136)/12=\$57.67/ month. That is what the bill should have been in 2010 with 600 CF of water used. The rate however was \$23.57 which is less than half of what it

should be. The affordability threshold based upon the 2010 rate was .05%, remember that the affordability threshold should be 1.5 % to 2.5% of median household income.

Our above rate does not include the supplementary charge of \$15.08 a month, but even if we included that amount it would place our monthly bill based upon the formula to \$62.04/ month which is only 64% of the Affordability Threshold. Also, in the formula for rates supplemental charges were not supposed to be included. We currently have over \$113,000,000 in repairs that need to be completed in the next 40 years. That is only for the pipes in the ground and does not include inflation in labor, tanks, trucks, and accessory charges.

Based upon the 2021 Drinking Water Affordability Assessment usage of 600CF/ month if the rate was allowed to increase it would be an increase from (600 CF * \$.0268)+ \$30.88= \$46.96/ month to (600CF*.0281)+32.42= 49.28 which is a difference of \$2.32/ month.

FISCAL IMPACT

The approved FY 2022-2023 Operating Budget does not include the additional 5% rate increase.

The District currently has over <u>\$113 million</u> in repairs that need to be completed within the next 40 years refer to "CIP Estimate Table" for a very conservative estimate. The impending Asset Valuation Study should increase the amounts listed in the table.

RECOMMENDED ACTION

After in depth analysis the General Manager recommends the Board of Directors to increase the rate not only the 5% but full amount that is possible with prop 218 effective July 1st,2022 for treated water and January 1st, 2023 for irrigation water. This would save the rate payers hundreds of millions of dollars over the next 40 years.

ALTERNATIVES

Alternatively, the Board could reject Staff's recommendation and adopt Resolution 2022-XX (Attachment 8) to continue the freeze to a specific date.

ATTACHMENTS

- 1. In Depth Analysis
- 2. CIP Estimate Table
- 3. Resolution 2017-30 Approving New Rates
- 4. Resolution 2019-14 Freezing Treated and Irrigation Water Rates
- 5. Superior Court of the State of California County of Eldorado Statement of Decision
- 6. Resolution 2020-08 Temporarily Freezing Water Rates
- 7. Resolution 2021-03 Freezing Rates Until end of Calendar Year 2021
- 8. Resolution 2021-56 Freezing Rates Until June 30th, 2022
- 9. SWRCB 2021 Drinking Water Affordability Assessment Report
- 10. Draft Resolution 2022-XX Freezing Rates to (date)

In Depth Analysis

CIP Estimate

I created a CIP estimate spreadsheet, I pulled the numbers from 2021 that lists, year item was acquired, usable life, remaining life, annual maintenance cost, replacement cost, annual cost complete and then the repair only cost. This does not include staff salaries or other charges that cannot be capitalized. I then added all replacement cost together. This I believe is a fair estimate of CIP only costs, if not on the low side. This amount is placed in the starting costs section of the attached charts.

Distribution System

We currently have over 137 miles of water main above 4 inch in diameter that has been installed in 1974. The age of the pipe is on average of 47 years old and should be replaced within the next 30 to 60 years dependent upon what kind of pipe it is. It costs \$50 – 250 per linear foot to install water main. For the calculations I used \$150/foot.

The asbestos concrete pipe has an outside lifespan of 70 years before the pipe starts to degrade and asbestos starts to enter the water. For ductile iron the life expectancy is 100 years. Plastic pipe is a relatively new pipe material, but its life expectancy is 100+ years. In the table the cost of replacement is divided by how many years of expected life is left.

Pipeline replacement is not a choice. It must be done at some point. Currently there are some districts that have put replacement cycle out to 300 years such as Los Angeles Water, which is completely unrealistic. Washington D.C. has a 30-inch water main that was installed in 1860 which is one year before Abraham Lincoln took office. On the other side of the spectrum is the asbestos pipe in our system starts to fail all at once in 23 years at that point it is too late to save for. A rate increase at that time would need to be huge to cover cost of replacement or to get a loan. These things should be considered as we move forward into a rate study.

Currently, the district has a surplus of \$861,693 in 2021/2022 proposed budget this amount will be included in the tables. Also, each year the average rate of inflation for the past 40 years is approximately 2.79% which will be added to the costs yearly. The unfunded amount each year will become the costs for the next year. I didn't include any grant funding in any of the calculations.

Treatment Plants, Office Building and Water Tanks

For the treatment plants office building and water tanks I took the approach of maintaining what is there. There will come a point in the next 40 years where a refurbish or retrofit cost will be incurred, that is the cost that is represented in the table.

Charts

What is not included in the charts is the inflation of services that we already pay. This is the day-to-day activities of the district. The actual amount that we will need to be pay is going to be higher than predicted.

Chart A:

In Chart A, the cost of repairs is projected into the future with the rates staying the same. With average inflation increasing at a rate of 2.79% a year, the inflation costs increase faster than the surplus can pay. After 42 years, the unfunded costs to repair the district would be roughly \$294,341,136 and \$36,191,106 of rate payer's money would have gone to repairs. Total repair costs would be \$330,532,242 if we added the unfunded portion to the money spent by the rate payers.

2.79 % Inflation								
Year	Surplus	Costs	Unfunded	Total Paid				
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693				
2	\$861,693	116,140,616	\$118,519,246	\$1,723,386				
3	\$861,693	118,519,246	\$120,964,240	\$2,585,079				
4	\$861,693	120,964,240	\$123,477,449	\$3,446,772				
5	\$861,693	123,477,449	\$126,060,777	\$4,308,465				
6	\$861,693	126,060,777	\$128,716,180	\$5,170,158				
7	\$861,693	128,716,180	\$131,445,668	\$6,031,851				
8	\$861,693	131,445,668	\$134,251,309	\$6,893,544				
9	\$861,693	134,251,309	\$137,135,228	\$7,755,237				
10	\$861,693	137,135,228	\$140,099,608	\$8,616,930				
11	\$861,693	140,099,608	\$143,146,694	\$9,478,623				
12	\$861,693	143,146,694	\$146,278,793	\$10,340,316				
13	\$861,693	146,278,793	\$149,498,279	\$11,202,009				
14	\$861,693	149,498,279	\$152,807,588	\$12,063,702				
15	\$861,693	152,807,588	\$156,209,226	\$12,925,395				
16	\$861,693	156,209,226	\$159,705,771	\$13,787,088				
17	\$861,693	159,705,771	\$163,299,869	\$14,648,781				
18	\$861,693	163,299,869	\$166,994,242	\$15,510,474				
19	\$861,693	166,994,242	\$170,791,688	\$16,372,167				
20	\$861,693	170,791,688	\$174,695,084	\$17,233,860				
21	\$861,693	174,695,084	\$178,707,383	\$18,095,553				
22	\$861,693	178,707,383	\$182,831,626	\$18,957,246				
23	\$861,693	182,831,626	\$187,070,936	\$19,818,939				
24	\$861,693	187,070,936	\$191,428,522	\$20,680,632				
25	\$861,693	191,428,522	\$195,907,685	\$21,542,325				
26	\$861,693	195,907,685	\$200,511,816	\$22,404,018				
27	\$861,693	200,511,816	\$205,244,403	\$23,265,711				
28	\$861,693	205,244,403	\$210,109,029	\$24,127,404				
29	\$861,693	210,109,029	\$215,109,377	\$24,989,097				
30	\$861,693	215,109,377	\$220,249,236	\$25,850,790				
31	\$861,693	220,249,236	\$225,532,497	\$26,712,483				
32	\$861,693	225,532,497	\$230,963,160	\$27,574,176				
33	\$861,693	230,963,160	\$236,545,340	\$28,435,869				
34	\$861,693	236,545,340	\$242,283,262	\$29,297,562				
35	\$861,693	242,283,262	\$248,181,272	\$30,159,255				
36	\$861,693	248,181,272	\$254,243,836	\$31,020,948				
37	\$861,693	254,243,836	\$260,475,546	\$31,882,641				
38	\$861,693	260,475,546	\$266,881,121	\$32,744,334				
39	\$861,693	266,881,121	\$273,465,411	\$33,606,027				
40	\$861,693	273,465,411	\$280,233,403	\$34,467,720				
41	\$861,693	280,233,403	\$287,190,222	\$35,329,413				
42	\$861,693	287,190,222	\$294,341,136	\$36,191,106				

GDPUD Construction Costs Chart A

Total Paid CIP=

\$330,532,242

Chart B:

Chart B projects the costs and payoff of the repairs with a 5% rate increase initially and 5% every 5 years which is a 55% total increase. The unfunded amount to repair the system would be \$196,583,681 after 42 years with \$100,324,408 of rate payer's money spent. The total amount for repairs would be \$296,908,089. The green tint is the rate increases.

In comparison to Chart A this would result in a savings to the rate payers of \$33,624,153 over 42 years.

		2.79 % Inflation		
Year	Surplus	Costs	Unfunded	Total Paid
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693.00
2	\$1,135,422	116,140,616	\$118,245,517	\$1,997,114.90
3	\$1,135,422	118,245,517	\$120,409,145	\$3,132,536.90
4	\$1,135,422	120,409,145	\$122,633,138	\$4,267,958.90
5	\$1,422,837	122,633,138	\$124,631,765	\$5,690,796.25
6	\$1,422,837	124,631,765	\$126,686,154	\$7,113,633.25
7	\$1,422,837	126,686,154	\$128,797,861	\$8,536,470.25
8	\$1,422,837	128,797,861	\$130,968,485	\$9,959,307.25
9	\$1,422,837	130,968,485	\$133,199,668	\$11,382,144.25
10	\$1,724,623	133,199,668	\$135,191,316	\$13,106,767.36
11	\$1,724,623	135,191,316	\$137,238,531	\$14,831,390.36
12	\$1,724,623	137,238,531	\$139,342,863	\$16,556,013.36
13	\$1,724,623	139,342,863	\$141,505,905	\$18,280,636.36
14	\$1,724,623	141,505,905	\$143,729,297	\$20,005,259.36
15	\$2,041,498	143,729,297	\$145,697,846	\$22,046,757.78
16	\$2,041,498	145,697,846	\$147,721,318	\$24,088,255.78
17	\$2,041,498	147,721,318	\$149,801,245	\$26,129,753.78
18	\$2,041,498	149,801,245	\$151,939,202	\$28,171,251.78
19	\$2,041,498	151,939,202	\$154,136,807	\$30,212,749.78
20	\$2,374,217	154,136,807	\$156,063,007	\$32,586,966.96
21	\$2,374,217	156,063,007	\$158,042,948	\$34,961,183.96
22	\$2,374,217	158,042,948	\$160,078,129	\$37,335,400.96
23	\$2,374,217	160,078,129	\$162,170,092	\$39,709,617.96
24	\$2,374,217	162,170,092	\$164,320,421	\$42,083,834.96
25	\$2,723,572	164,320,421	\$166,181,388	\$44,807,407.11
26	\$2,732,572	166,181,388	\$168,085,277	\$47,539,979.11
27	\$2,732,572	168,085,277	\$170,042,284	\$50,272,551.11
28	\$2,732,572	170,042,284	\$172,053,892	\$53,005,123.11
29	\$2,732,572	172,053,892	\$174,121,623	\$55,737,695.11
30	\$3,099,395	174,121,623	\$175,880,222	\$58,837,090.02
31	\$3,099,395	175,880,222	\$177,687,885	\$61,936,485.02
32	\$3,099,395	177,687,885	\$179,545,982	\$65,035,880.02
33	\$3,099,395	179,545,982	\$181,455,920	\$68,135,275.02
34	\$3,099,395	181,455,920	\$183,419,145	\$71,234,670.02
35	\$3,484,559	183,419,145	\$185,051,980	\$74,719,229.07
36	\$3,484,559	185,051,980	\$186,730,371	\$78,203,788.07
37	\$3,484,559	186,730,371	\$188,455,590	\$81,688,347.07
38	\$3,484,559	188,455,590	\$190,228,942	\$85,172,906.07
39	\$3,484,559	190,228,942	\$192,051,770	\$88,657,465.07
40	\$3,888,981	192,051,770	\$193,521,033	\$92,546,446.32
41	\$3,888,981	193,521,033	\$195,031,289	\$96,435,427.32
42	\$3,888,981	195,031,289	\$196,583,681	\$100,324,408.32

5% Rate Increase Initially and 5% every 5 Years **GDPUD** Construction Costs Chart B

Total Paid CIP= \$296,908,089.47

Chart C:

Chart C projects the costs and payoff of the deferred maintenance with a 10% initial increase and 10 % every 5 years which is a total increase of 135%. With the cost of unfunded repairs getting paid after 39 years. The total rate payer money spent would be \$214,844,307. This would be a \$115,687,935 saving when compared to Chart A and a \$82,063,782 savings when compared to Chart B and in Chart B the repairs still had not been completed. Once again, the green represents a rate increase.

		2.79 % Inflation		
Year	Surplus	Costs	Unfunded	Total Paid
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693.00
2	\$1,409,151	116,140,616	\$117,971,788	\$2,270,843.80
3	\$1,409,151	117,971,788	\$119,854,050	\$3,679,994.80
4	\$1,409,151	119,854,050	\$121,788,827	\$5,089,145.80
5	\$2,011,355	121,788,827	\$123,175,381	\$7,100,500.38
6	\$2,011,355	123,175,381	\$124,600,619	\$9,111,855.38
7	\$2,011,355	124,600,619	\$126,065,621	\$11,123,210.38
8	\$2,011,355	126,065,621	\$127,571,497	\$13,134,565.38
9	\$2,011,355	127,571,497	\$129,119,387	\$15,145,920.38
10	\$2,673,779	129,119,387	\$130,048,039	\$17,819,699.32
11	\$2,673,779	130,048,039	\$131,002,600	\$20,493,478.32
12	\$2,673,779	131,002,600	\$131,983,793	\$23,167,257.32
13	\$2,673,779	131,983,793	\$132,992,362	\$25,841,036.32
14	\$2,673,779	132,992,362	\$134,029,070	\$28,514,815.32
15	\$3,402,445	134,029,070	\$134,366,036	\$31,917,260.65
16	\$3,402,445	134,366,036	\$134,712,403	\$35,319,705.65
17	\$3,402,445	134,712,403	\$135,068,434	\$38,722,150.65
18	\$3,402,445	135,068,434	\$135,434,399	\$42,124,595.65
19	\$3,402,445	135,434,399	\$135,810,573	\$45,527,040.65
20	\$4,203,978	135,810,573	\$135,395,710	\$49,731,018.61
21	\$4,203,978	135,395,710	\$134,969,273	\$53,934,996.61
22	\$4,203,978	134,969,273	\$134,530,937	\$58,138,974.61
23	\$4,203,978	134,530,937	\$134,080,373	\$62,342,952.61
24	\$4,203,978	134,080,373	\$133,617,237	\$66,546,930.61
25	\$5,085,664	133,617,237	\$132,259,494	\$71,632,594.88
26	\$5,085,664	132,259,494	\$130,863,869	\$76,718,258.88
27	\$5,085,664	130,863,869	\$129,429,307	\$81,803,922.88
28	\$5,085,664	129,429,307	\$127,954,721	\$86,889,586.88
29	\$5,085,664	127,954,721	\$122,869,057	\$91,975,250.88
30	\$6,055,519	122,869,057	\$116,813,538	\$98,030,769.76
31	\$6,055,519	116,813,538	\$110,758,019	\$104,086,288.76
32	\$6,055,519	110,758,019	\$104,702,500	\$110,141,807.76
33	\$6,055,519	104,702,500	\$98,646,981	\$116,197,326.76
34	\$6,055,519	98,646,981	\$92,591,462	\$122,252,845.76
35	\$7,122,359	92,591,462	\$85,469,103	\$129,375,205.14
36	\$7,122,359	85,469,103	\$78,346,744	\$136,497,564.14
37	\$7,122,359	78,346,744	\$71,224,385	\$143,619,923.14
38	\$7,122,359	71,224,385	\$64,102,026	\$150,742,282.14
39	\$7,122,359	64,102,026	\$56,979,667	\$157,864,641.14
40	\$8,295,883	56,979,667	\$48,683,783	\$166,160,524.55
41	\$8,295,883	48,683,783	\$40,387,900	\$174,456,407.55
42	\$8,295,883	40,387,900	\$32,092,017	\$182,752,290.55

10% Initial Rate Increase and 10% every 5 years **GDPUD** Construction Costs Chart C

Total Paid CIP= \$214,844,307.96

Chart D:

Chart D projects the costs and payoff of the deferred maintenance with a 5% initial increase and 5 % every year for 10 years which is a total increase of 62%. The total rate payer money spent would be \$243,960,912. This would be a \$86,571,330 saving when compared to Chart A and a \$53,001177 savings when compared to Chart B. It would be \$29,116,605 more expensive than Chart C.

		2.79% Inflation		
Year	Surplus	Costs	Unfunded	Total Paid
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693
2	\$1,135,422	116,140,616	\$118,245,517	\$1,997,115
3	\$1,422,837	118,245,517	\$120,121,730	\$3,419,952
4	\$1,724,623	120,121,730	\$121,748,503	\$5,144,576
5	\$2,041,499	121,748,503	\$123,103,787	\$7,186,074
6	\$2,374,218	123,103,787	\$124,164,165	\$9,560,292
7	\$2,723,573	124,164,165	\$124,904,772	\$12,283,865
8	\$3,090,396	124,904,772	\$125,299,219	\$15,374,261
9	\$3,475,560	125,299,219	\$125,319,507	\$18,849,821
10	\$3,879,982	125,319,507	\$124,935,939	\$22,729,804
11	\$4,304,626	124,935,939	\$124,117,026	\$27,034,429
12	\$4,304,626	124,117,026	\$123,275,265	\$31,339,055
13	\$4,304,626	123,275,265	\$122,410,019	\$35,643,681
14	\$4,304,626	122,410,019	\$121,520,632	\$39,948,307
15	\$4,304,626	121,520,632	\$120,606,432	\$44,252,933
16	\$4,304,626	120,606,432	\$119,666,725	\$48,557,559
17	\$4,304,626	119,666,725	\$118,700,801	\$52,862,185
18	\$4,304,626	118,700,801	\$117,707,927	\$57,166,811
19	\$4,304,626	117,707,927	\$116,687,353	\$61,471,437
20	\$4,304,626	116,687,353	\$115,638,304	\$65,776,063
21	\$4,304,626	115,638,304	\$114,559,986	\$70,080,689
22	\$4,304,626	114,559,986	\$113,451,584	\$74,385,315
23	\$4,304,626	113,451,584	\$112,312,257	\$78,689,941
24	\$4,304,626	112,312,257	\$111,141,143	\$82,994,567
25	\$4,304,626	111,141,143	\$109,937,355	\$87,299,193
26	\$4,304,626	109,937,355	\$108,699,981	\$91,603,819
27	\$4,304,626	108,699,981	\$107,428,085	\$95,908,445
28	\$4,304,626	107,428,085	\$106,120,702	\$100,213,071
29	\$4,304,626	106,120,702	\$104,776,844	\$104,517,697
30	\$4,304,626	104,776,844	\$103,395,492	\$108,822,323
31	\$4,304,626	103,395,492	\$101,975,600	\$113,126,949
32	\$4,304,626	101,975,600	\$100,516,093	\$117,431,575
33	\$4,304,626	100,516,093	\$99,015,866	\$121,736,201
34	\$4,304,626	99,015,866	\$97,473,783	\$126,040,827
35	\$4,304,626	97,473,783	\$95,888,676	\$130,345,453
36	\$4,304,626	95,888,676	\$94,259,344	\$134,650,079
37	\$4,304,626	94,259,344	\$92,584,553	\$138,954,705
38	\$4,304,626	92,584,553	\$90,863,036	\$143,259,331
39	\$4,304,626	90,863,036	\$89,093,489	\$147,563,957
40	\$4,304,626	89,093,489	\$87,274,572	\$151,868,583
41	\$4,304,626	87,274,572	\$85,404,906	\$156,173,209
42	\$4,304,626	85,404,906	\$83,483,077	\$160,477,835

5% Rate Increase for 10 years **GDPUD** Construction Costs Chart D

 Total Paid CIP=
 \$243,960,912

Chart E:

Chart E projects the costs and payoff of the deferred maintenance with a 30% initial increase and 10 % every year for 3 years which is a total increase of 73%. The total rate payer money spent would be \$204,407,750. This would be a \$126,124,492 saving when compared to Chart A and a \$92.500,339 savings when compared to Chart B. It would result in a \$10,436,557 saving when compared to Chart C and a saving of \$39,553,162 when compared to Chart D.

		2.79 % Inflation		
Year	Surplus	Costs	Unfunded	Total Paid
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693
2	\$2,504,066	116,140,616	\$116,876,872	\$3,365,759
3	\$3,215,762	116,876,872	\$116,921,976	\$6,581,521
4	\$3,998,626	116,921,976	\$116,185,473	\$10,580,147
5	\$4,859,777	116,185,473	\$114,567,270	\$15,439,924
6	\$4,859,777	114,567,270	\$112,903,920	\$20,299,701
7	\$4,859,777	112,903,920	\$111,194,162	\$25,159,478
8	\$4,859,777	111,194,162	\$109,436,702	\$30,019,255
9	\$4,859,777	109,436,702	\$107,630,209	\$34,879,032
10	\$4,859,777	107,630,209	\$105,773,315	\$39,738,809
11	\$4,859,777	105,773,315	\$103,864,614	\$44,598,586
12	\$4,859,777	103,864,614	\$101,902,659	\$49,458,363
13	\$4,859,777	101,902,659	\$99,885,967	\$54,318,140
14	\$4,859,777	99,885,967	\$97,813,008	\$59,177,917
15	\$4,859,777	97,813,008	\$95,682,214	\$64,037,694
16	\$4,859,777	95,682,214	\$93,491,971	\$68,897,471
17	\$4,859,777	93,491,971	\$91,240,620	\$73,757,248
18	\$4,859,777	91,240,620	\$88,926,456	\$78,617,025
19	\$4,859,777	88,926,456	\$86,547,727	\$83,476,802
20	\$4,859,777	86,547,727	\$84,102,632	\$88,336,579
21	\$4,859,777	84,102,632	\$81,589,318	\$93,196,356
22	\$4,859,777	81,589,318	\$79,005,883	\$98,056,133
23	\$4,859,777	79,005,883	\$76,350,370	\$102,915,910
24	\$4,859,777	76,350,370	\$73,620,769	\$107,775,687
25	\$4,859,777	73,620,769	\$70,815,011	\$112,635,464
26	\$4,859,777	70,815,011	\$67,930,973	\$117,495,241
27	\$4,859,777	67,930,973	\$64,966,470	\$122,355,018
28	\$4,859,777	64,966,470	\$61,919,257	\$127,214,795
29	\$4,859,777	61,919,257	\$58,787,028	\$132,074,572
30	\$4,859,777	58,787,028	\$55,567,409	\$136,934,349
31	\$4,859,777	55,567,409	\$52,257,962	\$141,794,126
32	\$4,859,777	52,257,962	\$48,856,183	\$146,653,903
33	\$4,859,777	48,856,183	\$45,359,493	\$151,513,680
34	\$4,859,777	45,359,493	\$41,765,246	\$156,373,457
35	\$4,859,777	41,765,246	\$38,070,719	\$161,233,234
36	\$4,859,777	38,070,719	\$34,273,115	\$166,093,011
37	\$4,859,777	34,273,115	\$30,369,558	\$170,952,788
38	\$4,859,777	30,369,558	\$26,357,092	\$175,812,565
39	\$4,859,777	26,357,092	\$22,232,678	\$180,672,342
40	\$4,859,777	22,232,678	\$17,993,193	\$185,532,119
41	\$4,859,777	17,993,193	\$13,635,426	\$190,391,896
42	\$4,859,777	13,635,426	\$9,156,077	\$195,251,673

30%Initial Rate Increase and 10% for 3 years **GDPUD** Construction Costs Chart E

 Total Paid CIP=
 \$204,407,750

Chart F:

Chart F projects the costs and payoff of the deferred maintenance with a 2% initial increase and 2% every year, which is a total increase of 125%. The total rate payer money spent would be \$273,504,074. This would be a \$57,028,168 saving when compared to Chart A and a \$23,404,015 savings when compared to Chart B. It would be \$58,659,767 more expensive when compared to Chart C and a cost \$29,543,162 when compared to Chart D. It would be \$69,096,324 more expensive than Chart E.

		2.79 % Inflation		
Year	Surplus	Costs	Unfunded	Total Paid
1	\$861,693	\$113,826,548	\$116,140,616	\$861,693
2	\$971,185	116,140,616	\$118,409,754	\$1,832,878
3	\$1,082,866	118,409,754	\$120,630,521	\$2,915,744
4	\$1,196,781	120,630,521	\$122,799,331	\$4,112,524
5	\$1,312,974	122,799,331	\$124,912,458	\$5,425,499
6	\$1,431,491	124,912,458	\$126,966,024	\$6,856,990
7	\$1,552,379	126,966,024	\$128,955,997	\$8,409,369
8	\$1,675,684	128,955,997	\$130,878,185	\$10,085,054
9	\$1,801,456	130,878,185	\$132,728,231	\$11,886,509
10	\$1,929,742	132,728,231	\$134,501,606	\$13,816,252
11	\$2,060,595	134,501,606	\$136,193,606	\$15,876,847
12	\$2,194,065	136,193,606	\$137,799,343	\$18,070,911
13	\$2,330,204	137,799,343	\$139,313,741	\$20,401,115
14	\$2,469,065	139,313,741	\$140,731,529	\$22,870,180
15	\$2,610,704	140,731,529	\$142,047,234	\$25,480,885
16	\$2,755,176	142,047,234	\$143,255,176	\$28,236,061
17	\$2,902,537	143,255,176	\$144,349,458	\$31,138,598
18	\$3,052,846	144,349,458	\$145,323,962	\$34,191,444
19	\$3,206,160	145,323,962	\$146,172,340	\$37,397,605
20	\$3,362,541	146,172,340	\$146,888,007	\$40,760,146
21	\$3,522,050	146,888,007	\$147,464,132	\$44,282,196
22	\$3,684,749	147,464,132	\$147,893,633	\$47,966,945
23	\$3,850,701	147,893,633	\$148,169,164	\$51,817,646
24	\$4,019,973	148,169,164	\$148,283,111	\$55,837,619
25	\$4,192,630	148,283,111	\$148,227,579	\$60,030,249
26	\$4,368,740	148,227,579	\$147,994,388	\$64,398,990
27	\$4,548,373	147,994,388	\$147,575,059	\$68,947,363
28	\$4,731,598	147,575,059	\$146,960,805	\$73,678,961
29	\$4,918,488	146,960,805	\$146,142,523	\$78,597,449
30	\$5,109,115	146,142,523	\$145,110,784	\$83,706,564
31	\$5,303,555	145,110,784	\$143,855,820	\$89,010,119
32	\$5,501,884	143,855,820	\$142,367,513	\$94,512,003
33	\$5,704,179	142,367,513	\$140,635,387	\$100,216,183
34	\$5,910,521	140,635,387	\$138,648,594	\$106,126,704
35	\$6,120,989	138,648,594	\$136,395,901	\$112,247,692
36	\$6,335,666	136,395,901	\$133,865,680	\$118,583,359
37	\$6,554,637	133,865,680	\$131,045,895	\$125,137,996
38	\$6,777,988	131,045,895	\$127,924,088	\$131,915,984
39	\$7,005,805	127,924,088	\$124,487,365	\$138,921,789
40	\$7,238,179	124,487,365	\$120,722,383	\$146,159,968
41	\$7,475,200	120,722,383	\$116,615,337	\$153,635,169
42	\$7,716,962	116,615,337	\$112,151,943	\$161,352,131

2%Initial Rate Increase and 2% every year **GDPUD** Construction Costs Chart F

Total Paid CIP= \$273,504,074

Analysis

In doing a comparison, instituting the bigger rate increase saves the district in some cases hundreds of millions of dollars long term due to the construction inflation costs. The larger the initial rate increase the more the district will save.

If the district pursues a rate increase, then they should look into monthly residential billing instead of billing bi-monthly. With monthly billing, what is paid gets cut in half and helps people on a fixed income pay the bill. With bi-monthly billing even a small rate increase appears as double on the bill.

Chart E represents the best path forward for the district. Not all costs get covered at year 42, however; we will get some grant funding and we are not taking into consideration all of the maintenance and costs involved.

	CIP Estimate Created 2021								
QTY	Component	Year Acquired	Life Span	Remaining Life	Annual Maintence	Replacement	Annual Cost Complete	Annual Cost Repair Only	Replaement Cost
	Source of Suppply 5100								
	1 Mark Edson Dam and Stump Meadow Res	1962	100	45	\$10,000		\$10,000	\$10,000	
	1 Tunnel Hill	1962	100	45	\$100,000		\$100,000	\$100,000	
	1 Kaiser Siphon Replacement	1964	100	47	\$500		\$500	\$500	
	1 Sand Trap Siphon	1964	100	47	\$5,000		\$5,000	\$5,000	
	1 Up Country Ditch (Pilot Creek to Tunnel)	1964	100	47	\$45,000		\$45,000	\$45,000	
	Shared Transmission 5200								
	1 Cabin Waste Gate Replacement	1972	40						
	1 Bacon Creek Pipe	1964	40						
	1 Buckeye Conduit	1964	40						
	1 Up Country(Penn Stock to Shroeder Conduit)	1964	40		\$10,000		\$10,000	\$10,000	
	1 Main Ditch #1 Imp	1964	40	40	\$5,000		\$5,000	\$5,000	
	1 Main Ditch #2 ALT	1964	40	40	\$5,000		\$5,000	\$5,000	
	5200 Irrigation Only								
	1 Main Ditch #2 Below ALT	1964	40	40	5000		5000	\$5,000	
	1 Pilot Hill Ditch (Main)	1964	40	40	5000		5000	\$5,000	
	1 Pilot Hiull Ditch	1964	40	40	5000		5000	\$5,000	
	1 Kelsey Ditch #1	1964	40	40	5000		5000	\$5,000	
	1 Kelsey Ditch #2 IMP	1964	40	40	5000		5000	\$5,000	
	1 Spanish Dry Diggings Ditch	1964	40	40	5000		5000	\$5,000	
	1 Taylor Mine Ditch	1964	40	40	5000		5000	\$5,000	
	Water Treatment 5300								
	1 Lake Walton WTP	1992	50	25		\$2,000,000	\$80,000		\$2,000,000
	1 Raw Water Bypass	1974	40	30	\$500			\$500	
	1 Lake Walton Outlet Works	1974	40	30	\$1,000			\$1,000	
	1 Lake Walton Dredging	1974	40	20	\$10,000			\$10,000	
	1 ALT Water Treatment Plant	2018	50	48		\$3,000,000	\$62,500		\$3,000,000
	Transmission / Distribution 5400								
	1 Angel Camp Tank .5 MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Deer Ravine Tank .25MG	1974	40	40	\$3,000		\$3,000	\$3,000	

	CIP Estimate Created 2021								
QTY	Component	Year Acquired	Life Span	Remaining Life	Annual Maintence	Replacement	Annual Cost Complete	Annual Cost Repair Only	Replaement Cost
	1 Pilot Hill Tank .47MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Black Ridge Road Tank .06MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Hotchkiss Hill Tank .06MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Spanish Dry Diggins .2MG	1971	40	40	\$3,000		\$3,000	\$3,000	
	1 Black Oak Mine .3MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Garden Park .2MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Kelsey Tank .2MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Hotchkiss Hill Subtank .06MG	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Black Ridge Pump Station	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Chipmunk Trail Pump Station	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 Reservoir Pump Station	1974	40	40	\$3,000		\$3,000	\$3,000	
	1 4 inch (42,130 AC and 50,771 PVC)	1974	70/100	23/53		\$418,452	\$418,452		\$13,935,150
	1 6 inch (175,142 AC and 3,981 DI and 235,640 PVC)	1974	70/100/100	23/53/53		\$1,820,403	\$1,820,403		\$62,214,450
	1 8 inch (42,068 AC and 85,394 PVC)	1974	70/100	23/53		\$516,038	\$516,038		\$19,119,300
	1 10 inch(36,484 AC and 10,359 PVC)	1974	70/100	23/53		\$267,257	\$267,257		\$7,026,450
	1 12 inch (42,346 AC)	1974	70/100	23		\$276,170	\$276,170		\$6,351,900
	Transportation Equipment								
	1 Mobile Radios	1971	10	1		\$15.000	\$15.000	\$15.000	
	1 Truck	2017	15	10		\$51.000	\$5.100	\$5.100	
	1 Excavator	2017	20	20		\$74.000	\$3.700	\$3.700	
	1 Trailer for excavator	2017	20	20		\$15.000	\$750	\$750	
	1 Trailer & Hookups	1991	15	10		\$19.000	\$1.900	\$1.900	
	1 1998 Ford Pickup	1998	15	10		\$20,000	\$2,000	\$2,000	
	1 1999 Ford F150	1999	15	10		\$20,000	\$2,000	\$2,000	
	1 2002 Ford F-150 4X4	2001	15	10		\$20,000	\$2,000	\$2,000	
	1 Chevy 1500	2003	15	10		\$20,000	\$2,000	\$2,000	
	1 2004 Chevy 4X\$	2004	15	10		\$20,000	\$2,000	\$2,000	
	1 2005 Chevy	2005	15	10		\$30,000	\$3,000	\$3,000	
	1 2006 Chevy Colorado	2006	15	10		\$20,000	\$2,000	\$2,000	
	1 2007 Chevy CK2500	2007	15	10		\$25,000	\$2,500	\$2,500	
	1 2008 Chevy 1500	2008	15	10		\$20,000	\$2,000	\$2,000	
	1 Sundowner Trailer	2010	15	10		\$6,000	\$600	\$600	
	1 Re-Manufactured Long Block Unit 32	2013	20	20		\$5,500	\$275	\$275	
	1 2016 Ford F-150	2016	15	15		\$20,000	\$1,333	\$1,333	
	1 2004 Chevy 1500	2004	15	10		\$30,000	\$3,000	\$3,000	

	CIP Estimate Created 2021									
QTY	Component	Year Acquired	Life Span	Remaining Life	Annual Maintence	Replacement	Annual Cost Complete	Annual Cost Repair Only	Replaement Cost	
Shop	and Equipment									
1 Tool	Set	2017	15	10		\$6,765	\$677	\$677		
1 New	Radio System	1989	20	5		\$13,825	\$2,765	\$2,765		
1 Stea	n Cleaner	1989	20	5		\$5,000	\$1,000	\$1,000		
1 Weld	ler	1991	20	5		\$5,000	\$1,000	\$1,000		
1 Back	hoe	1991	30	10		\$50,000	\$5,000	\$5,000		
1 Dum	p Truck	1991	30	10		\$50 <i>,</i> 000	\$5,000	\$5,000		
1 Tilt E	ed Trailer	1992	25	10		\$9,000	\$900	\$900		
1 Doze	r	1996	40	15		\$25,000	\$1,667	\$1,667		
1 Mini	Excavator	2000	20	7		\$34,000	\$4,857	\$4,857		
1 IR Pc	rtable Air Compressor	2003	20	7		\$11,000	\$1,571	\$1,571		
1 2008	Chevy 3500	2008	15	10		\$35 <i>,</i> 000	\$3,500	\$3,500		
1 Clark	Excavator	2010	20	14		\$35,000	\$2,500	\$2,500		
1 Ditch	Witch FX 350 Vac	2015	20	19		\$46,000	\$2,421	\$2,421		
1 Ram	mer Small Compactor	2016	20	20		\$6,221	\$311	\$311		
Gene	eral Plant									
1 Offic	e Building	1976	40	15		\$100,000	\$6,667		\$100,000	
1 Park	ng Lot	2021	50	50		\$50,000	\$1,000		\$50,000	
1 Yard	Fence	1986	50	10		\$6,298	\$630		\$6,298	
1 Gene	erator	1986	20	5		\$23,000	\$4,600		\$23,000	
1 HVA	2	1987 ir	n office building							
1 Meta	al Building	1990	40	15		\$10,000	\$667			
Offic	e Equipment									
1 Com	puter Network	2001	5	7		\$2,500	\$357	\$357		
1 Copi	er	2002	5	rental						
1 Phor	e System	2002	5	5		\$5,000	\$1,000	\$1,000		
1 Dell	Server	2005	5	5		\$1,200	\$240	\$240		
5 Dell	Compters	2007	5	5		\$6,000	\$1,200	\$1,200		
Dius	tribution									
38 Prea	ssure Regulating Valves	1987	40	10		\$500,000	\$50,000	\$50,000		
172 Air R	eleif Valves	1987	40	10		\$500,000	\$50,000	\$50,000		

	CIP Estimate Created 2021									
QTY	Component	Year Acquired	Life Span	Remaining Life	Annual Maintence	Replacement	Annual Cost Complete	Annual Cost Repair Only	Replaement Cost	
422 Isolation Va	alves	1987	40	10	\$20,000		\$20,000	\$20,000		
247 Other Valve	ews	1987	40	10	\$15,000		\$15,000	\$15,000		
581 Firehydrant	ts	1987	60	35	\$50,000		\$50,000	\$50,000		
20 Pressure Re	educing Valves	2017	40	10		\$100,000	\$10,000	\$10,000		
Annual Tota	al:						\$3,991,007	\$548,124	\$113,826,548	

RESOLUTION NO. 2017-30

A RESOLUTION OF THE BOARD OF DIRECTORS OF GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT ADOPTING NEW RATES FOR TREATED WATER AND IRRIGATION WATER SERVICES

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, a Water Rate Study, dated October 24, 2017, prepared by RCAC ("Water Rate Study"), establishes various rates proposed therein, which the District Board finds are reasonably related to the cost of service for the District; and

WHEREAS, in preparing the Water Rate Study, staff and RCAC held several workshops and recommended a range of alternatives that the District could adopt regarding the revised water rates, which the District Board has reviewed; and

WHEREAS, on December 12, 2017, pursuant to Proposition 218 (Cal. Const., Art. XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; and

WHEREAS, the District has verified and counted the protests and determined that the District may proceed with the proposed water rates.

NOW, THEREFORE, BE IT RESOLVED THAT THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT, DOES HEREBY ACCEPT AND CLOSE the Proposition 218 proceedings in connection with the District's proposed water rates, with receipt of less than a majority protest vote as declared by the District Secretary. The District Board may adopt multi-year rate increases for water rates, in accordance with the Water Rate Study, in compliance with Proposition 218.

NOW, THEREFORE, BE IT and it is hereby RESOLVED by the Board of Directors of the Georgetown Divide Public Utility District as follows:

Beginning on January 1, 2018, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

Ĩ	Monthly Base Charge								
Meter Size	Current	Jan 1, 2018	Jan 1, 2019	Jan 1, 2020	Jan 1, 2021	Jan 1, 2022			
5/8, 3/4, 1"	\$ 23.57	\$ 29.41	\$ 30.88	\$ 32.42	\$ 34.04	\$ 35.74			
1.5"	\$ 23.57	\$ 98.02	\$ 102.92	\$ 108.07	\$ 113.47	\$ 119.15			
2"	\$ 23.57	\$ 156.83	\$ 164.67	\$ 172.91	\$ 181.55	\$ 190.63			
3"	\$ 23.57	\$ 313.66	\$ 329.34	\$ 345.81	\$ 363.10	\$ 381.25			
4"	\$ 25.16	\$ 490.09	\$ 514.60	\$ 540.33	\$ 567.34	\$ 595.71			

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

	Usage Rate (per CF)									
Tier	Current	Jan 1, 2018	Jan 1, 2019	Jan 1, 2020	Jan 1, 2021	Jan 1, 2022				
<1000 CF		\$ 0.0255	\$ 0.0268	\$ 0.0281	\$ 0.0295	\$ 0.0310				
1000-	\$ 0.0138	\$ 0.0255	\$ 0.0268	\$ 0.0281	\$ 0.0295	\$ 0.0310				
2000										
2001-	\$ 0.0165	\$ 0.0255	\$ 0.0268	\$ 0.0281	\$ 0.0295	\$ 0.0310				
3000										
3001-	\$ 0.0193	\$ 0.0255	\$ 0.0268	\$ 0.0281	\$ 0.0295	\$ 0.0310				
4000										
>4001 CF	\$ 0.0221	\$ 0.0255	\$ 0.0268	\$ 0.0281	\$ 0.0295	\$ 0.0310				

NOW, THEREFORE, BE IT and it is hereby RESOLVED by the Board of Directors of the Georgetown Divide Public Utility District as follows:

Beginning on January 1, 2018, the monthly charges for irrigation water customers are established as follows:

	Monthly Base Charge (Irrigation Season Only)					
Meter Size	Current	Jan 1, 2018	Jan 1, 2019	Jan 1, 2020	Jan 1, 2021	Jan 1, 2022
1/2"	\$ 47.00	\$ 77.00	\$ 84.80	\$ 93.20	\$ 102.60	\$ 112.80
Per each 1"	\$ 72.74	\$ 154.20	\$ 169.60	\$ 186.60	\$ 205.20	\$ 225.80

PASSED, APPROVED, AND ADOPTED by the Georgetown Divide Public Utility District District at a special meeting held on the 12th day of December 2017; motioned by Director Hanschild, seconded by Director Wadle, and upon roll call was carried by the following vote of:

AYES: Halpin, Hanschild, Uso, Wadle

NAYS:

ABSENT: ABSTAIN:

Londres Uso, President Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

ATTEST:

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of Resolution 2017-30 duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on the 12th day of December 2017.

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

RESOLUTION NO. 2019-14

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT FREEZING TREATED AND WATER IRRIGATION RATES AT THE 2018 RATES UNTIL THE END OF THE DECEMBER 2019 BILLING PERIOD

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, in December 2017, the District completed a roughly 15-month process to update its treated and irrigation water rates; and

WHEREAS, that process resulted in a Water Financial Analysis (aka Water Rate Study), dated October 24, 2017, prepared by Rural Community Assistance Corporation (RCAC) that established various proposed rates; and

WHEREAS, on December 12, 2017, pursuant to Proposition 218 (Cal. Const., Art. XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; verified and counted the protests and determined that the District may proceed with the proposed water rates; and

WHEREAS, the Board then adopted Resolution 2017-30 Adopting New Rates for Treated Water and Irrigation Water Services; and

WHEREAS, those rates were set to increase effective with the January/February 2019 billing period; and

WHEREAS, at the January 8, 2019 meeting the Board acted by motion to "temporarily freeze the rate increases for no more than 12 months;" and

WHEREAS, Board determinations regarding District rates should be made by resolution or ordinance; and

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT HEREBY RESOLVES THE FOLLOWING:

1. Effective with the January/February 2019 billing period, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

Meter Size	Monthly Base Charge
5/8, 3/4, 1"	\$ 29.41
1.5"	\$ 98.02
2"	\$ 156.83
3"	\$ 313.66
4"	\$ 490.09

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

- 2. Effective with the January/February 2019 billing period, the usage rate for treated water customers will be \$0.0255 per cubic foot.
- 3. Effective with the January/February 2019 billing period, the monthly charges for irrigation water customers are established as follows:

Meter Size	Monthly Base Charge (Irrigation Season Only)
1/2"	\$ 77.00
Per each 1"	\$ 154.20

- 4. The above listed rates will be effective through the November/December 2019 billing period.
- 5. Effective with the January/February billing period for each following year, respectively, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

	Monthly Base Charge			
Meter Size	2020	2021	2022	
5/8, 3/4, 1"	\$ 30.88	\$ 32.42	\$ 34.04	
1.5"	\$ 102.92	\$ 108.07	\$ 113.47	
2"	\$ 164.67	\$ 172.91	\$ 181.55	
3"	\$ 329.34	\$ 345.81	\$ 363.10	
4"	\$ 514.60	\$ 540.33	\$ 567.34	

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

6. Effective with the January/February billing period each following year, respectively, the usage rate for treated water customers are established as follows:

Usage Charge (per CF)			
2020	2021	2022	
\$ 0.0268	\$ 0.0281	\$ 0.0295	

7. Effective with the January/February billing period each following year, respectively, the monthly charges for irrigation water customers are established as follows:

	Monthly Base Ch	arge (Irrigation	e (Irrigation Season Only)		
Meter Size	2020	2021	2022		
1/2"	\$ 84.80	\$ 93.20	\$ 102.60		
Per each 1"	\$ 169.60	\$ 186.60	\$ 205.20		

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the twelfth day of February 2019, by the following vote:

AYES: Garcia, Halpin, Saunders, Souza NOES: Wadle

ABSENT/ABSTAIN:

Dr. M While

Dane Wadle, President, Board of Directors **GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT**

Attest:

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors **GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT**

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of Resolution 2019-14 duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this twelfth day of February 2019.

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

	•			
1		FLED		
2		IAN 0 9 2020		
3		EL DORADO CO. SUPERIOR COURT		
4		BY (DEPOTYCLERK)		
5	- 43 - 14	$\mathcal{O}^{\mathcal{O}}$		
6				
7	SUPERIOR COURT OF THE STATE OF CALIFORNIA			
8	COUNTY OF EL DORADO			
9				
10	Georgetown Divide Taxpayers	Case No. PC20180211		
11	Michele Turney, on behalf of			
12	themselves, and all others similarly situated.			
13	Detitionens (Dleintiffe			
14	Petitioners/Plaintins,			
15	v.			
16	Georgetown Divide Public Utility	Proposed Statement of		
17	District and Does 1 to 20,	(Code of Civ. Proc. § 632; Cal. Rules		
18	Respondents/Defendants.	of Ct., Rule 3.1590)		
19				
20		1 0 1500 the second way down its		
21	Pursuant to California Rules of Court, rule 3.1590, the court renders its			
22	Proposed Statement of Decision. Any party may file and serve a proposal or			
23	biection to its contents within the time limits specified by applicable rule. If no			

1

24

25

26

27

28

party does so, this document shall, without the necessity of another court order, automatically become the court's Statement of Decision. To the extent any of the parties avail themselves of the right-to propose or object, the court reminds the parties that a Statement of Decision need not discuss each point listed in a

party's request; it need only set forth ultimate facts as opposed to evidentiary

- 1 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION

25

26

27

28

facts on the principal controverted issues requested. (Marriage of Garrity & Bishton (1986) 181 Cal.App.3rd 675, 687 [226 Cal.Rptr. 485].)

INTRODUCTION

Petitioners/plaintiffs Georgetown Divide Taxpayers Association, Steven Proe, and Michele Turney, on behalf of themselves and all others similarly situated, filed this action for a writ of mandate, declaratory relief, an injunction, and refund of illegal tax against respondent/defendant Georgetown Divide Public Utility District ("District").¹ Petitioners ask the court to declare that rates and charges that went into effect January 1, 2018, are invalid pursuant to Proposition 218.

The matter came on regularly for hearing on October 11, 2019, before the Honorable Michael J. McLaughlin, Judge of the Superior Court. Marsha Burch appeared on behalf of petitioners, and Robin Baral and Barbara Brenner appeared on behalf of respondent. The administrative record having been lodged with the court, the parties' briefs having been filed and argument had, the matter was then submitted for decision by the court.

1. THE PARTIES

Georgetown Divide Taxpayers Association is an unincorporated, informal organization. The Association states that it was "established to promote responsible taxation and governmental action within the District." (Ver. Pet. at 3:9-11.)

Individuals Steven Proe and Michele Turney are ratepayers within the boundaries of the District. (*Id.* at 3:18–23.)

The District is a public utility district established under the Public Utility Act, Public Utilities Code §§ 15501-15533. (Ver. Resp. at 4:11-13.)

¹ Per stipulation, petitioners' causes of action for injunctive relief and refund of illegal tax will be the subject of a later litigation phase.

2. BACKGROUND

Georgetown is a community of about 2,300 residents in an unincorporated area of El Dorado County. (Administrative Record ("AR") 16.) The town is registered as California Historical Landmark #484. (*Ibid.*) The median household income for the District's service area is approximately \$66,359, although the budget calculations in the District's rate study indicate the median is \$46,700. (AR 16, 38.)

The District was formed in 1946. (*Ibid.*) Following the decline in gold production, agriculture and lumbering became the primary industries on the Georgetown Divide for many years. (*Ibid.*) In recent decades, vineyards have increased the demand for irrigation water. (*Ibid.*) Stumpy Meadows Reservoir, a 20,000 acre-foot impoundment on Pilot Creek, is the core of the District's water supply system. (AR 17.) The District provides treated water, irrigation water, and sewer services to the community known as the Georgetown Divide, in the northwest portion of the county. (*Ibid.*) But, not all three services are provided in all areas. (*Ibid.*)

The District has an elected five-member Board which meets monthly and oversees a General Manager. (*Ibid.*) The Board sets policy but does not actively participate in the management of the District. (*Ibid.*) There are 3,774 treated water customers and 408 irrigation water customers. (*Ibid.*) The treated water customers are billed bimonthly and pay a monthly base charge—which is determined from the size of the customer's water meter—and a usage charge which is based on the amount of water the customer uses. (*Ibid.*) Treated water customers also pay a monthly supplemental charge for the Auburn Lake Trails Water Treatment Plant ("ALT Plant"). (AR 2.) Irrigation water customers pay a monthly base charge, based on one miner's inch of water, during the five-month irrigation season. (AR 18, 64.) Rates for irrigation water customers are

28

supplemented, i.e., reduced, by a portion of the ad valorem property taxes received by the District. (AR 1281.)

Prior to the rate study in dispute, the District last updated its rates in 2008. (AR 8, 17.) That update included a five-year schedule of proposed rates for 2009– 2013. (AR 8.) The District adopted rate increases for 2009–2011, but not for 2012 or 2013. (*Ibid.*)

In September 2016 the District initiated the process of enlisting the Rural Community Assistance Corporation ("RCAC") to conduct an updated rate study. (AR 270.) RCAC receives state funding to help rural communities like the District stay in compliance with applicable laws and regulations. (AR 8.) RCAC's services are provided at no cost to the District. (AR 18.)

Multiple Board meetings and public workshops took place over the following year. (AR 4, 9, 977, 1193–1194, 1478.) Additionally, in May 2017 the Grand Jury released a report concerning the District and made five recommendations. (AR 590–591.) The District responded in June 2017 to the Grand Jury's report. (AR 602–604.)

In October 2017 the Board adopted District Resolution No. 2017-27 authorizing the District's General Manager to prepare and mail notice of a public hearing to consider rate increases for all treated water and irrigation water customers. (AR 1340, 1344.) On October 26, 2017, the District delivered notice of the Proposition 218 public hearing via mail to all its water customers. (AR 10, 65.) The notice was mailed more than 45 days prior to the December 12, 2017, public hearing. (AR 10.)

On December 12, 2017, the District held the Proposition 218 public hearing. (AR 70.) At the conclusion of the public hearing, the Board determined that the protest was not successful. (AR 73.) The Board unanimously adopted District Resolution No. 2017-29, to accept and close the Proposition 218 hearing, and then the Board adopted District Resolution No. 2017-30 establishing new water

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION

4 -

rates, effective January 1, 2018. (AR 73–74.) This Resolution adopted an amended version of RCAC's recommended rate structure. (AR 1–2.)

3. LEGAL PRINCIPLES

The California Constitution, as amended by a series of voter initiatives, limits the authority of state and local governments to collect revenue. (Cal. Const., arts. XIIIA, XIIIC, XIIID.) Article XIIID, added by Proposition 218 in 1996, applies to charges for specific services imposed "as an incident of property ownership," including a "charge for a property related service." (Cal. Const., art. XIIID, § 2, subds. (e), (h).) Proposition 218 added to Proposition 13's limits on property taxes by placing similar restrictions on assessments, charges, and fees imposed on taxpayers by local governmental entities. (*Howard Jarvis Taxpayers Ass'n v. City of Riverside* (1999) 73 Cal.App.4th 679, 681–683 [86 Cal.Rptr.2d 592].)

Article XIIID of the California Constitution contains the following definitions:

"(e) 'Fee' or 'charge' means any levy other than an ad valorem tax, a special tax, or an assessment, imposed by an agency upon a parcel or upon a person as an incident of property ownership, including a user fee or charge for a property related service. [¶] ... [¶]

"(g) 'Property ownership' shall be deemed to include tenancies of real property where tenants are directly liable to pay the assessment, fee, or charge in question.

"(h) 'Property-related service' means a public service having a direct relationship to property ownership." (Id. § 2.)

The parties in this case do not dispute that the rates at issue are for a property-related service. (See Bighorn-Desert View Water Agency v. Verjil (2006) 39 Cal.4th 205, 216 [46 Cal.Rptr.3d 73]; Richmond v. Shasta Cmty. Services Dist. (2004) 32 Cal.4th 409, 426-427 [9 Cal.Rptr.3d 121].)

^{- 5 -}

There are two types of restrictions on a local governmental entity's power to increase property-related charges: (1) a set of procedural requirements, including the requirement that owners, including tenants directly liable for the charges, be given notice, a hearing, and an opportunity to defeat the increase by submitting protests; and (2) a set of substantive requirements that regulate the use of the funds collected and the distribution of the burden.

First, with regard to procedural requirements:

"Procedures for New or Increased Fees and Charges. An agency shall follow the procedures pursuant to this section in imposing or increasing any fee or charge as defined pursuant to this article, including, but not limited to, the following:

"(1) The parcels upon which a fee or charge is proposed for imposition shall be identified. The amount of the fee or charge proposed to be imposed upon each parcel shall be calculated. The agency shall provide written notice by mail of the proposed fee or charge to the record owner of each identified parcel upon which the fee or charge is proposed for imposition, the amount of the fee or charge proposed to be imposed upon each, the basis upon which the amount of the proposed fee or charge was calculated, the reason for the fee or charge, together with the date, time, and location of a public hearing on the proposed fee or charge.

"(2) The agency shall conduct a public hearing upon the proposed fee or charge not less than 45 days after mailing the notice of the proposed fee or charge to the record owners of each identified parcel upon which the fee or charge is proposed for imposition. At the public hearing, the agency shall consider all protests against the proposed fee or charge. If written protests against the proposed fee or charge are presented by a majority of owners of the identified parcels, the agency shall not impose the fee or charge." (Cal. Const., art. XIIID, § 6, subd. (a).)

-6-Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211

PROPOSED STATEMENT OF DECISION

1

And second, with regard to substantive requirements:

"Requirements for Existing, New or Increased Fees and Charges. A fee or charge shall not be extended, imposed, or increased by any agency unless it meets all of the following requirements:

"(1) Revenues derived from the fee or charge shall not exceed the funds required to provide the property related service.

"(2) Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.

"(3) The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.

"(4) No fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question. Fees or charges based on potential or future use of a service are not permitted. Standby charges, whether characterized as charges or assessments, shall be classified as assessments and shall not be imposed without compliance with Section 4." (*Id.*, art. XIIID, § 6, subd. (b).)

After the adoption of a fee or charge subject to Proposition 218, taxpayers can challenge it by filing a petition for a writ of mandate in the superior court. (Silicon Valley Taxpayers' Ass'n, Inc. v. Santa Clara County Open Space Auth. (2008) 44 Cal.4th 431, 440 [79 Cal.Rptr.3d 312].)

"In any legal action contesting the validity of a fee or charge, the burden shall be on the agency to demonstrate compliance" with both the procedural and substantive requirements of Article XIIID. (Cal. Const., art. XIIID, § 6, subd. (b)(5).) The court exercises its independent judgment in determining whether the District's new rate structure is consistent with Article XIIID. (Silicon Valley, supra, 44 Cal.4th at pp. 443-450.)

1

2

3

4

5

6

7

8

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION Evidence outside the administrative record is not usually admissible. (W. States Petroleum Ass'n v. Superior Court (1995) 9 Cal.4th 559, 565, 576 [38 Cal.Rptr.2d 139].) Western States did recognize a narrow exception: Extra-record evidence is admissible in traditional mandamus proceedings if it existed before the agency made its decision and it was not possible in the exercise of reasonable diligence to present it to the agency before the decision was made. (Id. at p. 578.) Other exceptions might exist, but extra-record evidence cannot be used to contradict the administrative record. (Id. at pp. 578-579.)

4. PETITIONERS' REQUEST TO AUGMENT THE RECORD

Petitioners request that the court augment the Administrative Record by considering Exhibits A-P to petitioners' Appendix in Support of Opening Trial Brief. Petitioners contend these documents are admissible on the grounds that (1) the standard of review supports an augmented record; (2) most of the documents are subject to judicial notice; and (3) the documents fall within extrarecord exceptions recognized in *Western States*, *supra*, 9 Cal.4th 559. (Ver. Pet. at 18:15-20:25.)

Petitioners' request to augment the record is denied. Exhibits A, B, H, I, J, K, and L include copies of District capital improvement plans, summary of fixed assets and depreciation lists, construction in progress, and District staff costs payroll for various years. The court agrees with the District that, with the exception of one column of one page (*see* Exhibit A, page 1), these documents do not provide information regarding future replacement costs—the methodology used for the rate study. Additionally, some of the documents do not provide information as to when they were created or for what purpose. As such, without adequate foundation, the relevancy of these documents has not been established.

Exhibits D, E, F, and G are copies of regular meeting agendas, minutes, or packets of the District from meetings occurring after the adoption of the new

Next, Exhibit C is a newspaper article and is not relevant evidence.

- 8 -

rate structure in December 2017. "Extra-record evidence is admissible under this exception [i.e., evidence that could not be produced at the agency level] only in those rare instances in which (1) the evidence in question existed *before* the agency made its decision, and (2) it was not possible in the exercise of reasonable diligence to present this evidence to the agency *before* the decision was made so that it could be considered and included in the administrative record." (*Western States, supra,* 9 Cal.4th at p. 578 [emphasis in original].) Exhibits D through G do not fall under the *Western States* exception, and therefore will not be considered by the court.

The court also declines to take judicial notice of documents that were created by the District. "Taking judicial notice of a document is not the same as accepting the truth of its contents or accepting a particular interpretation of its meaning." (*Joslin v. H.A.S. Ins. Brokerage* (1986) 184 Cal.App.3d 369, 374 [228 Cal.Rptr. 878].) "While courts take judicial notice of public records, they do not take notice of the truth of matters stated therein. [Citation.] 'When judicial notice is taken of a document, ... the truthfulness and proper interpretation of the document are disputable.' [Citation.]" (*Herrera v. Deutsche Bank Nat'l Tr. Co.* (2011) 196 Cal.App.4th 1366, 1375 [127 Cal.Rptr.3d 362].)

Here, while the court may take judicial notice of the existence of these documents apparently created by the District, the truth of the matters stated therein and the parties' interpretation of the hearsay statements is nevertheless disputed. Furthermore, as stated earlier, the court also cannot determine from these documents when they were created or for what purpose. As such, taking judicial notice does not assist the court in its determination.

5. PROPOSITION 218: PROCEDURAL REQUIREMENTS

Petitioners raise one procedural argument, which concerns the number of votes each parcel received. (Pet. Br. at 31:10–32:2.) Specifically, that despite some District customers receiving more than one type of service, each parcel was

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

28

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION

^{- 9 -}
granted only one vote. Petitioners contend that treated water customers "were allowed to determine the cost of service for all Irrigation Water customers because of the relative number of irrigation customers." (*Id.* at 31:12–14.)

Petitioners' argument is not persuasive. Petitioners appear to be referring to weighted ballots used in the adoption of special assessments under Article XIIID, § 4, and not to property-related fees and charges under Article XIIID, § 6, in which each parcel is afforded one protest vote. Government Code § 53755 states that "[o]ne written protest per parcel, filed by an owner or tenant of the parcel, shall be counted in calculating a majority protest" (Id., subd. (b); see also Morgan v. Imperial Irrig. Dist. (2014) 223 Cal.App.4th 892, 910-911 [167 Cal.Rptr.3d 687].)

Because no other procedural objections under Proposition 218 were asserted, the court finds the District met its burden of demonstrating compliance with Proposition 218's procedural requirements.

6. **PROPOSITION 218: SUBSTANTIVE REQUIREMENTS**

The majority of petitioners' opening brief focuses on alleged violations of Proposition 218's substantive requirements. Petitioners assert that the District's rate increase is illegal because the new rates exceed the funds required to provide water service. They further assert that the District inflated its original cost of assets, included items in its asset list that did not exist at the time of the rate increase, exaggerated the number or cost of components of the system, and generally relied upon inaccurate and flawed information to support the rate increase.

As noted earlier, Article XIIID, § 6, includes specific substantive requirements for any fee increase: (1) revenues derived from the fee cannot exceed the funds required to provide the property-related service; (2) the revenue may not be used for any purpose other than that for which the fee was imposed; (3) the amount of the fee imposed as an incident of property ownership cannot

- 10 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION

exceed the proportional cost of the service attributable to the parcel; (4) no fee may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question; and (5) a fee may not be imposed for general government services where the service is available to the public at large in substantially the same manner as it is to property owners. (*Id.*, subd. (b).)

"The theme of these sections is that fee or charge revenues may not exceed what it costs to provide fee or charge services. Of course, what it costs to provide such services includes all the required costs of providing service, short-term and long-term, including operation, maintenance, financial, and capital expenditures. The key is that the revenues derived from the fee or charge are required to provide the service, and may be used only for the service. In short, the section 6(b) fee or charge *must reasonably represent* the cost of providing service." (*Howard Jarvis Taxpayers Assn. v. City of Roseville* (2002) 97 Cal.App.4th 637, 647-648 [119 Cal.Rptr.2d 91] [emphasis added].)

The Proposition 218 Omnibus Implementation Act, enacted to construe Proposition 218, defines "water" as "any system of public improvements intended to provide for the production, storage, supply, treatment, or distribution of water from any source." (Gov't Code § 53750, subd. (n).) Thus, water service consists of more than mere delivery of water. (*Griffith v. Pajaro Valley Water Mgmt. Agency* (2013) 220 Cal.App.4th 586, 602 [163 Cal.Rptr.3d 243].)

The ultimate issue to be determined is whether the District's new rate structure was based upon substantial evidence. In making that determination, the court reviewed the Administrative Record, upon which the District's Board relied upon in deciding to adopt new rates. The Administrative Record consists of over 3,000 pages of material, including District resolutions, agenda packets and meeting minutes, the "Georgetown Divide PUD Water Financial Analysis" prepared by RCAC, email correspondence, community workshop materials and notices, Capital Improvement Program documents, and press releases.

The court carefully read and analyzed the Administrative Record in order to determine what evidence was considered by the District, and to assess whether that evidence substantially supports the District's decision. Based upon the foregoing, the court concludes that the District's new water rates are based upon substantial evidence and comply with Proposition 218's substantive requirements.

It should be noted that petitioners do not assert that some of the various costs of providing water service should not have been included in the rate study. Rather, they contend the District failed to use reliable and accurate information to form the basis of the analysis, and in particular with regard to the District's list of assets.

The rate study sets forth in detail the process of how the rates were calculated. The rate setting model used by RCAC was developed over many years of practice and has been used in more than 60 rate studies throughout the western United States. (AR 20.) The model is geared to RCAC's clients, which are communities of less than 10,000 people, such as the community in this case. (*Ibid.*)

The rate study process began with a list of all capitalized assets, the budget, and the current number of customers. (AR 21.) From the list of assets, the required reserves are calculated and fed into a five-year budget projection, which is adjusted for 2% inflation. (*Ibid.*) Expenses are divided between fixed and variable expenses. (*Ibid.*)

Fixed expenses are then allocated among the different customers according to their hydrological potential, as determined by their meter size, and the result is a recommended Base Rate. (AR 22.) The Usage Charge is calculated based on the variable expenses. (*Ibid.*) A Revenue Forecast is arrived at by applying the

- 12 -

Sales Forecast—adjusted for future growth and water conservation—against the Base Rate and Usage Charge. (*Ibid.*) The Revenue Forecast is then inserted in the forecasted Budget. (*Ibid.*) If the Budget does not balance with the selected Base Rate and Usage Charge, they are adjusted until the Budget is balanced. (*Ibid.*) To lessen the impact on District customers, rate increases could be spread out over a longer period of time. (*Ibid.*) For irrigation rates, the same principle works except that the rate, per miner's inch, is calculated by dividing total expenses by the total miner's inches. (*Ibid.*)

One component of the rate study is the Capital Replacement Program ("CRP"). (AR 23.) Steven Palmer, the District's General Manager, explains that the CRP is a list of all District-owned infrastructure, their projected replacement date, an estimate of future costs to replace capital improvements, and an apportionment of funds to those future costs. (Palmer Decl., ¶ 2.) A list of components, their installation date, and their original costs were supplied to RCAC by Mr. Palmer, along with input from other knowledgeable District staff, which was then reviewed by the District's Operations Manager. (*Ibid.*)

The District details the process of how the list of assets was compiled. The list was compiled from multiple sources, including from assets listed in the accounting system (equipment, tools, vehicles, etc.), a 2002 Water System Reliability Study by KASL Report (raw and irrigation water facilities), and a 2007 Capital Facility Charge Study (treated water facilities). (Palmer Decl., ¶ 4; AR 23.) That information was then reviewed by for completeness by the District's General Manager and the Operations Manager. (*Ibid.*) The asset list was further refined based on the knowledge of District staff, including the Operations Manager. (Palmer Decl., ¶ 4.) District staff and RCAC worked through multiple drafts and versions of the asset list to ensure it was as complete as possible and complied with directions from the District Board. (*Ibid.*) Mr. Palmer declares that in developing the CRP, District staff used their

- 13 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION expertise, knowledge, and judgment to complete the components of the asset list as best as possible. (Palmer Decl., $\P\P$ 2, 4.)

The Normal Estimated Life of all assets was based on American Water Works Association ("AWWA") standards and adjusted for actual conditions. (AR 2891.) The Estimated Remaining Life of the assets was based on the best judgment of RCAC and the District's General Manager and Operations Manager, following visual inspection of each component's condition. (*Ibid.*)

The CRP excluded certain segments of ditch maintenance and repairs because the District received a grant, called the CABY Grant, in 2017 to update the earthen ditches with concrete lining or piping. (Palmer Decl., ¶ 5.) The District removed these ditch segments from the CRP to prevent double counting, as the District had already received the grant funding. (*Ibid.*) Thus, petitioners contention that the District failed to properly account for the grant in the rate study is not well taken. (Pets. Reply Br. at 15:8–26.)

The District calculated projected replacement dates for the infrastructure using AWWA standards as recommended by RCAC, and then the District's General Manager and Operations Manager made further adjustments based on the current condition of that piece of infrastructure. (Palmer Decl., \P 6.) The District concedes that for some facilities or components the exact date of installation was estimated and used as a starting point to calculate a replacement date. For example, the District represents that most of its pipelines were installed in 1974 or earlier. (*Ibid.*) For the CRP, it estimated that 13% of the pipelines were installed in 1977, and 8% were installed between 1989 and 1991. But, the District contends that, for all assets, the actual installation date is not as important as the estimated remaining life span. (*Ibid.*) As such, the installation date and normal estimated life for each piece of infrastructure were starting points, and then adjusted based on current condition to arrive at an estimated replacement date. (*Ibid.*)

- 14 -

In calculating the future replacement cost of assets, various methods were used. (Palmer Decl., ¶ 7.) For most assets the estimated current cost to replace the asset is based on the Stantec Report and the KASL Report. (*Ibid.*) The cost to replace equipment, tools, and vehicles was based on recent purchases. (*Ibid.*) More recent cost data was available for other assets, including the Lake Walton Water Treatment Plant, the ALT Plant, and the Automated Meter Reading and Meter Replacement Project. (*Ibid.*)

Section 6 of Article XIIID "does not require perfection." (Morgan, supra, 223 Cal.App.4th at p. 918.) Rather, the data relied on must be "reasonably dependable and adequate," and can be derived from "reliable estimates." (Morgan, supra, at p. 916; Moore v. City of Lemon Grove (2015) 237 Cal.App.4th 363, 372 [188 Cal.Rptr.3d 130].)

The court concludes that while estimates are not ideal, there is nothing in the record to support that the District ignored better evidence or picked estimates out of thin air. The information used to create the asset list was compiled from multiples sources, was reviewed by multiple individuals, and was subject to multiple revisions as better information was obtained. Accordingly, the court finds that the information relied on for the CRP and rate study is reasonably dependable and adequate to pass constitutional muster.

The District does concede there was an error in the final CRP because of the inclusion of the Pilot Hill water storage tank. However, the District asserts that the error had a negligible impact on the rate study analysis. In reply, petitioners argue that the rate study "may be used to support future rate increases, and it includes at least one asset that all parties agree no longer exist." (Pets.' Reply at 14:17–18.)

The court finds as credible the District's explanation as to how the error occurred and that it had a negligible impact on the rate study analysis. Mr. Palmer, the General Manager, declares that "[i]n developing the CRP,

- 15 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION District staff informed RCAC that the Pilot Hill water storage tank ('Pilot Hill Tank') should be removed from the CRP asset list because it was decommissioned in 2015. However, the Pilot Hill Tank was not removed from and inadvertently left in the final CRP. Despite this oversight, the District asserts the Pilot Hill Tank ultimately has negligible impact on the Rate Study analysis for two reasons. First, the Rate Study calculates the capital replacement cost of this tank as 0.66% of the total capital replacement cost of the CRP. Second, the rates adopted by the Board are less than the amount necessary to fully fund the CRP. Since the CRP is underfunded and the Pilot Hill Tank contributes to less than one percent of the CRP's total capital replacement costs, the inclusion of the Pilot Hill Tank in the CRP does not impact the Rate Study analysis. The Pilot Hill Tank will become one of the projects that go unfunded by the revenues received from the rate increase. In allocating future revenues towards the replacement of capital assets, the District will ensure that no funds are used to replace the Pilot Hill Tank." (Palmer Decl., ¶ 13.)

While the inadvertent inclusion of the Pilot Hill Tank is not ideal, the error does not rise to the level of unconstitutionality. Moreover, the court is not persuaded that the error will infect a future rate study. The error was RCAC's, not the District, who informed RCAC of the error. The District is clearly aware that it cannot allocate any future revenue to replace the Pilot Hill Tank. It is speculation that the error will not be accounted for in a future rate study.

Petitioners also make numerous other assertions concerning the rate study that misinterpret the study, which the court will briefly address as warranted. First, the court is not persuaded by petitioners' argument that the District failed to separate out general benefits from special benefits. (See Pets. Opening Br. at 24:1-8; Resp. Opp'n Br. at 24:19-26:2; Pets. Reply at 11:5-20.) Second, petitioners confuse debt reserve obligations with debt payments. (See Pets.

- 16 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION Opening Br. at 24:9-11; Resp. Opp'n Br. at 35:21-27.) Third, petitioners are incorrect that asset values do not match within the rate study. (See Pets. Opening Br. at 24:12-14.) The District explains that the table at AR 26 is a summary subtotal and not meant as a comprehensive list of all assets. (See Resp. Opp'n Br. at 36:2-14.) Fourth, the court agrees with the District that petitioners misunderstand the functions of and methodologies used in creating asset lists for the Capital Improvement Plan and annual audits versus the CRP. (See Pets. Opening Br. at 24:18-25:6, 27:13-30:28; Resp. Opp'n Br. at 30:2-31:8.) And lastly, there is substantial evidence to support the District's treatment of drought years in the rate study. (See Pets. Opening Br. at 26:7-27:8; Resp. Opp'n Br. at 36:27-37:10.)

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

 $\mathbf{21}$

22

23

24

25

26

27

28

In summary, the court is not persuaded that the District inflated its cost of assets, or exaggerated the number or cost of components. Accordingly, the court finds that the District's new rates do not exceed the funds required to provide water service. Additionally, it is permissible under Proposition 218 that the new rates adopted by the District are lower than the cost of providing water service. (*Morgan, supra,* 223 Cal.App.4th at p. 923.)

Next, the court finds that the District has met its burden of demonstrating that the revenue will not be used for any purpose other than that for which the rates are imposed. (Palmer Decl., ¶ 15.) Petitioners contend that the District did not provide adequate information concerning where the funds from the rate increase will be spent. (Pets. Opening Br. at 25:7–20.) This argument is not well founded. The rate study includes budgets detailing what revenue is needed to meet operating and other expenses of providing water services. (AR 45–55.) Here, as discussed earlier, the District has shown that the rates represent the actual cost of service. Given that, it is permissible for the District to deposit the collected fees in the general fund, rather than separate accounts, and monitor the revenue and expenses to ensure compliance with budgetary constraints, as

- 17 -

well as make necessary adjustments. (*Moore, supra*, 237 Cal.App.4th at pp. 373–375.)

The new water rates do not exceed the proportional cost of the water service attributable to each parcel. Petitioners argue that the irrigation water customers bear an unfair and disproportionate burden. The treated water rates versus the irrigation water rates are significantly different, but that appears to be a result of, at least in part, the economies of scale (3,774 treated water users versus 408 irrigation customers) rather than an unconstitutional method of apportionment. (AR 17.)

"Apportionment is not a determination that lends itself to precise calculation. [Citation.] In the context of determining the validity of a fee imposed upon water appropriators by the State Water Resources Control Board, the Supreme Court has recently held that "The question of proportionality is not measured on an individual basis. Rather, it is measured collectively, considering all rate payors.' [Citation.] [¶] ... Proposition 218 prescribes no particular method for apportioning a fee or charge other than that the amount shall not exceed the proportional cost of the service attributable to the parcel" (*Griffith, supra*, 220 Cal.App.4th at p. 601.)

Here, to avoid one user group from subsidizing the other user group, and vice versa, the District split assets, budgets, reserves, and debts between the treated water customers and the irrigation customers proportionally based on certain rules and standards. (AR 19, 23–36; Palmer Decl., ¶¶ 14, 16.) "[G]rouping similar users together for the same ... rate and charging the users according to usage is a reasonable way to apportion the cost of service. That there may be other methods favored by plaintiffs does not render defendant's method unconstitutional. Proposition 218 does not require a more finely calibrated apportion." (*Griffith, supra*, 220 Cal.App.4th at p. 601.) So too in this

1

2

3

4

5

6

7

8

- 18 -

case, that petitioners may favor other methods does not render the District's method unconstitutional.

The court further concludes that the water services are actually used by, or immediately available to, the property owners. In particular, the court agrees with the District that it was proper to include the new ALT Plant in the CRP, even if it was not operational at the time the new rates were adopted. The ALT Plant will replace an existing treatment plant. (AR 45; Palmer Decl., ¶¶ 8–9.) Thus, the service is already immediately available via the existing plant.

Although the Plant was not completed at the time of the rate study, it is a significant piece of the District's infrastructure and requires a long timeframe to fund, and which is estimated to cost \$40 million to replace in the future. (AR 45.) The new ALT Plant is expected to begin operations during the time period covered by the new rate structure. (Palmer Decl., \P 8.) The ALT Plant's costs are allocated only to treated water customers given that irrigation customers will not benefit from the new Plant. (AR 25.) Proposition 218 allows public water agencies to pass on to their customers the capital costs of improvements with these longer funding timelines in order to ensure continued water service. (*Capistrano Taxpayers Ass'n, Inc. v. City of San Juan Capistrano* (2015) 235 Cal.App.4th 1493, 1497, 1501–1502 [186 Cal.Rptr.3d 362].) The court agrees that the new ALT Plant is a known cost and will be operational during the time period covered by the new rates. As such, it was proper to include the ALT Plant in the CRP.

For similar reasons, it was not improper for the District to include the Automated Meter Reading and Meter Replacement Project in the CRP, despite that the project is not completed. (See Pets. Opening Br. at 11:13–17; Resp. Opp'n at 33:3–17; Pets. Reply at 14:22–15:6.) There are existing meters being replaced, and thus the service is immediately available. Even assuming the District obtains a loan for most of the project cost, it is appropriate for the

- 19 -

Georgetown Divide Taxpayers Assoc., et al. v. Georgetown Divide PUD, Case No. PC20180211 PROPOSED STATEMENT OF DECISION District to include the project in the CRP given that it is a known asset, and it is appropriate to use cost data based upon the best available information. (Palmer Decl., \P 10.)

Lastly, the District has met its burden of establishing that the fees will not be imposed for general government services. The court already rejected petitioners' argument that the District failed to separate out general benefits from special benefits. (See Pets. Opening Br. at 24:1–8; Resp. Opp'n Br. at 24:19–26:2; Pets. Reply at 11:5–20.)

7. CONCLUSION

After independently reviewing the evidence, the court concludes that the District's new water rates are supported by substantial evidence, and the District met its burden of showing compliance with Proposition 218's procedural and substantive requirements. The petition for writ of mandate is **DENIED**.

IT IS SO ORDERED.

Dated: January 9, 2020

Michael J. McLaughlin

Honorable Michael J. McLaughlin Superior Court Judge

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 2526 27 28

 \parallel

1

2

SUPERIOR COURT OF THE STATE OF CALIFORNIA IN AND FOR THE COUNTY OF EL DORADO

CLERK'S CERTIFICATE OF MAILING

Georgetown Divide Taxpayers Association, et al vs. Georgetown Divide Public Utility District

Case Number: PC20180211

I, Wendy Warden, Court Clerk of the Superior Court of the State of California, County of El Dorado, do hereby certify that I am a citizen of the United States and employed in the County of El Dorado, I am over the age of eighteen years and not a party to the within action; my business address is Superior Court of the State of California, County of El Dorado, Courthouse, 1354 Johnson Blvd., Suite 2, South Lake Tahoe, CA 96150, and that I served the following documents: Proposed Statement of Decision on the parties as indicated below:

- Donald B. Mooney, Esquire; Law Offices of Donald B. Mooney, 417 Mace Blvd., Suite J-334; Davis, CA 95618
- Robin R. Baral, Esquire; Churchwell White LLP, 1414 K Street, 3rd Floor; Sacramento, CA 95814

I am familiar with the business practice of the EL DORADO COUNTY SUPERIOR COURT with regard to collection and processing of documents for mailing with the United States Postal Service. I enclosed a true copy of said document in a sealed envelope which was placed in a designated area for outgoing mail, addressed as set forth above. Mail placed in that designated area is given the correct amount of postage and is deposited that same day in the ordinary course of business in a United States mailbox in the City of South Lake Tahoe, California. I further certify that local counsel are served a copy of documents either by an attorney service, by Inter-Office Mail or by placement in their boxes in the Superior Court Clerk's Office.

The document described above was mailed and placed for collection and mailing in SOUTH LAKE TAHOE, CA on January 09, 2020 in the ordinary course of business.

Executed on January 09, 2020 in South Lake Tahoe, California.

EL DORADO COUNTY SUPERIOR COURT

Wendy Warden, Court Clerk By:



BY:_____

RESOLUTION NO. 2020-08 OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT FREEZING TREATED AND WATER IRRIGATION RATES AT THE 2018 RATES

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, in December 2017, the District completed a roughly 15-month process to update its treated and irrigation water rates; and

WHEREAS, that process resulted in a Water Financial Analysis (aka Water Rate Study), dated October 24, 2017, prepared by Rural Community Assistance Corporation (RCAC) that established various proposed rates; and

WHEREAS, on December 12, 2017, pursuant to Proposition 218 (Cal. Const., Art. XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; verified and counted the protests and determined that the District may proceed with the proposed water rates; and

WHEREAS, the Board then adopted Resolution 2017-30 Adopting New Rates for Treated Water and Irrigation Water Services; and

WHEREAS, those rates were set to increase effective with the January/February 2019 billing period; and

WHEREAS, at the January 8, 2019 meeting the Board acted by motion to "temporarily freeze the rate increases for no more than 12 months;" and

WHEREAS, at the February 12, 2019 meeting the Board adopted Resolution 2019-14 which held the 2019 water rates at the 2018 water rates, and re-affirmed that water rates would increase effective with the January/February billing period each following year (2020, 2021, 2022); and

WHEREAS, at the December 10, 2019 meeting the Board directed the General Manager to analyze the impact of a rate freeze on District business and present it at the January 14, 2020 Board meeting; and

WHEREAS, the General Manager presented, and the Board reviewed that analysis at the February 11, 2020 Board meeting.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT HEREBY RESOLVES THE FOLLOWING: 1. Effective with the January/February 2020 billing period, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

Meter Size	Monthly Base Charge
5/8, 3/4, 1"	\$ 29.41
1.5"	\$ 98.02
2"	\$ 156.83
3"	\$ 313.66
4"	\$ 490.09

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

- 2. Effective with the January/February 2020 billing period, the usage rate for treated water customers will be \$0.0255 per cubic foot.
- 3. The above listed treated water rates will be effective through the May/June 2020 billing period.
- 4. Effective with the July/August 2020 billing period, and the January/February billing period for each following year, respectively, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

	Monthly Base Charge		
Meter	2020	2021	2022
Size	(July/August)	(Jan/Feb)	(Jan/Feb)
5/8, 3/4, 1"	\$ 30.88	\$ 32.42	\$ 34.04
1.5"	\$ 102.92	\$ 108.07	\$ 113.47
2"	\$ 164.67	\$ 172.91	\$ 181.55
3"	\$ 329.34	\$ 345.81	\$ 363.10
4"	\$ 514.60	\$ 540.33	\$ 567.34

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

5. Effective with the July/August 2020 billing period, and the January/February billing period each following year, respectively, the usage rate for treated water customers are established as follows:

Usage Charge (per CF)		
2020 2021 2022		
(July/August) (Jan/Feb) (Jan/Feb)		(Jan/Feb)
\$0.0268	\$ 0.0281	\$ 0.0295

6. Effective with the January/February 2020 billing period, the monthly charges for irrigation water customers are established as follows:

Meter Size	Monthly Base Charge (Irrigation Season Only)
1/2"	\$ 77.00
Per each 1"	\$ 154.20

- 7. The above listed irrigation water rates will be effective through the November/December 2020 billing period.
- 8. Effective with the January/February billing period each following year, respectively, the monthly charges for irrigation water customers are established as follows:

	Monthly Base Charge (Irrigation Season Only)	
Meter Size	2021 2022	
1/2"	\$ 84.80	\$ 93.20
Per each 1"	\$ 169.60	\$ 186.60

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the eleventh day of February 2020, by the following vote:

AYES:

NOES:

ABSENT/ABSTAIN:

David Souza, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of <u>Resolution 2020-08</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this eleventh day of February 2020.

Steven Palmer, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

RESOLUTION NO. 2021-03

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT FREEZING TREATED WATER AND IRRIGATION RATES

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, in December 2017, the District completed a roughly 15-month process to update its treated and irrigation water rates; and

WHEREAS, that process resulted in a Water Financial Analysis (aka Water Rate Study), dated October 24, 2017, prepared by Rural Community Assistance Corporation (RCAC) that established various proposed rates; and

WHEREAS, on December 12, 2017, pursuant to Proposition 218 (Cal. Const., Art. XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; verified and counted the protests and determined that the District may proceed with the proposed water rates; and

WHEREAS, the Board then adopted Resolution 2017-30 Adopting New Rates for Treated Water and Irrigation Water Services; and

WHEREAS, those rates were set to increase effective with the January/February 2019 billing period; and

WHEREAS, at the January 8, 2019 meeting the Board acted by motion to "temporarily freeze the rate increases for no more than 12 months;" and

WHEREAS, at the February 12, 2019 meeting the Board adopted Resolution 2019-14 which held the 2019 water rates at the 2018 water rates, and re-affirmed that water rates would increase effective with the January/February billing period each following year (2020, 2021, 2022); and

WHEREAS, at the February 11, 2020 Board meeting the Board adopted Resolution 2020-08 to temporarily freeze the treated water rates until July 1, 2020 and freeze the irrigation rates for the remainder of 2020.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT HEREBY RESOLVES THAT THE RATES FOR TREATED AND IRRIGATION WATER ARE MAINTAINED AT THE CURRENT RATE UNTIL THE END OF THE CURRENT YEAR (DECEMBER 31, 2021) AS OUTLINED IN THE FOLLOWING CHARTS: 1. Effective with the January/February 2021 billing period, the monthly charges (billed bi-monthly) for treated water customers are maintained at the following level:

Meter Size	Monthly Base Charge
5/8, 3/4, 1"	\$ 30.88
1.5"	\$ 102.92
2"	\$ 164.67
3"	\$ 329.34
4"	\$ 514.60

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

- 2. Effective with the January/February 2021 billing period, the usage rate for treated water customers will be \$0.0255 per cubic foot.
- 3. The above listed treated water rates will be effective through the May/June 2021 billing period.
- 4. Effective with the July/August 2021 billing period, and the January/February billing period for each following year, respectively, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

	Monthly Base Charge		
Meter	2021	2022	
Size	(Jul/Aug)	(Jan/Feb)	
5/8, 3/4, 1"	\$ 30.88	\$ 32.42	
1.5"	\$ 102.92	\$ 108.07	
2"	\$ 164.67	\$ 172.91	
3"	\$ 329.34	\$ 345.81	
4"	\$ 514.60	\$ 540.33	

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

5. Effective with the July/August 2021 billing period, and the January/February billing period each following year, respectively, the usage rate for treated water customers are established as follows:

Usage Charge (per CF)		
2020 2021 2022 (July/August) (Jan/Feb) (Jan/Feb)		
\$0.0268	\$0.0268	\$ 0.0281

6. Effective with the January/February 2021 billing period, the monthly charges for irrigation water customers are established as follows:

Meter Size	Monthly Base Charge (Irrigation Season Only)
1/1 ¹¹	\$ 77.00
Per each 1"	\$ 154.20

- 7. The above listed irrigation water rates will be effective through the November/December 2021 billing period.
- 8. Effective with the January/February billing period each following year, respectively, the monthly charges for irrigation water customers are established as follows:

	Monthly Base Charge (Irrigation Season Only)	
Meter Size	2021 2022	
1/2"	\$ 77.00	\$ 84.80
Per each 1"	\$ 154.20 \$ 169.60	

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the 28th day of January 2021, by the following vote:

AYES: MACDONALD, THORNBROUGH, GARCIA, SAUNDERS

NOES: NONE

ABSENT/ABSTAIN: NONE

Michael Saunders, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Jeff Nelson, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of <u>Resolution 2021-03</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this 28th day of January 2021.

f Nelson, Clerk and Ex officio

Jeff Nelson, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

RESOLUTION NO. 2021-56

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT FREEZING TREATED WATER AND IRRIGATION RATES

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, in December 2017, the District completed a roughly 15-month process to update its treated and irrigation water rates; and

WHEREAS, that process resulted in a Water Financial Analysis (aka Water Rate Study), dated October 24, 2017, prepared by Rural Community Assistance Corporation (RCAC) that established various proposed rates; and

WHEREAS, on December 12, 2017, pursuant to Proposition 218 (Cal. Const., Art.XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; verified and counted the protests and determined that the District may proceed with the proposed water rates; and

WHEREAS, the Board then adopted Resolution 2017-30 Adopting New Rates for Treated Water and Irrigation Water Services; and

WHEREAS, those rates were set to increase effective with the January/February 2019 billing period; and

WHEREAS, at the January 8, 2019 meeting the Board acted by motion to "temporarily freeze the rate increases for no more than 12 months;" and

WHEREAS, at the February 12, 2019 meeting the Board adopted Resolution 2019-14 which held the 2019 water rates at the 2018 water rates, and re-affirmed that water rates would increase effective with the January/February billing period each following year (2020, 2021, 2022); and

WHEREAS, at the February 11, 2020 Board meeting the Board adopted Resolution 2020-08 to temporarily freeze the treated water rates until July 1, 2020 and freeze the irrigation rates for the remainder of 2020; and

WHEREAS, at the January 28, 2021, Special Board Meeting, the Board adopted Resolution 2021-03 maintaining the water rates until the end of the Fiscal Year 2021 (December 31, 2021); and

WHEREAS, the Board has considered the option of maintaining the freeze at the current level.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT HEREBY RESOLVES THAT THE RATES FOR TREATED WATER ARE MAINTAINED AT THE CURRENT RATE UNTIL JUNE 30, 2022; AND IRRIGATION RATES ARE MAINTAINED AT THE CURRENT RATE UNTIL DECEMBER 31, 2022, AS OUTLINED INTHE FOLLOWING CHARTS: 1. Effective with the January/February 2022 billing period, the monthly charges (billed bi-monthly) for treated water customers are maintained at the following level:

Meter Size	Monthly Base Charge
5/8, 3/4, 1"	\$ 30.88
1.5"	\$ 102.92
2"	\$ 164.67
3"	\$ 329.34
4"	\$ 514.60

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

- 2. Effective with the January/February 2022 billing period, the usage rate for treated water customers will be \$0.0255 per cubic foot.
- 3. The above listed treated water rates will be effective through the June 30, 2022, billing period.
- 4. Effective with the January/February 2022 billing period for each following year, respectively, the monthly charges (billed bi-monthly) for treated water customers are established as follows:

	Monthlv Base Charge
MeterSize	2022 (Jan/Feb)
5/8, 3/4, 1"	\$ 30.88
1.5"	\$ 102.92
2"	\$ 164.67
3"	\$ 329.34
4"	\$ 514.60

An ALT treatment plant supplemental charge of \$15.08 per month is also added to the above listed base charge for all treated water customers.

5. Effective with the July/August 2021 billing period, and the January/February billing period each following year, respectively, the usage rate for treated water customers is established as follows:

Usage Charge per CFI			
2020 (July/August)	2021 (Jan/Feb)	2022 (Jan/Feb)	
\$0.0268	\$0.0268	\$ 0.0268	

6. Effective with the January/February 2022 billing period, the monthly charges for irrigation water customers are established as follows:

Meter Size	Monthly Base Charge irrigation Season Only	
1/2"	\$ 77.00	
Per each 1"	\$154.20	

- 7. The above listed irrigation water rates will be effective through the November/December 2022 billing period.
- 8. Effective with the January/February billing period each following year, respectively, the monthly charges for irrigation water customers are established as follows:

	Monthly Base Charge (irrigation Season Only)	
Meter Size	2022	
1/2"	\$ 77.00	
Per each 1"	\$ 154.20	

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the 12th day of December 2021, bythe following vote:

AYES: THORNBROUGH, MACDONALD, SEAMAN, SAUNDERS

NOES: NONE.

ABSENT/ABSTAIN: STEWART

Lal

Michael Saunders, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and K officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true, and correct copy of <u>Resolution 2021-56</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this 12th day of December 2021.

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

2021 DRINKING WATER <u>AFFORDABILITY</u> <u>ASSESSMENT</u>

Informing the 2021-22 Safe & Affordable Drinking Water Fund Expenditure Plan

The Affordability Assessment is a component of the Needs Assessment. Access full Needs Assessment Report:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingw ater/documents/needs/2021_needs_assessment.pdf



April 2021

Acknowledgements

Contributors

This report was prepared by the California State Water Resources Control Board within the California Environmental Protection Agency (CalEPA), in partnership with the UCLA Luskin Center for Innovation (UCLA).

UCLA in turn partnered with Corona Environmental Consulting (Corona), Sacramento State University Office of Water Programs, the Pacific Institute and the UNC Environmental Finance Center to carry out much of the analysis contained in this report.

State Water Board Contributing Authors

Kristyn Abhold, Jeffrey Albrecht, William Allen, Michelle Frederick, Emily Houlihan, Mawj Khammas, David Leslie, Hee Kyung Lim, and Bansari Tailor

UCLA Team Contributing Authors

Gregory Pierce (Principal Investigator, Needs Assessment Contract), Peter Roquemore, and Kelly Trumbull

Corona Team Contributing Authors

Tarrah Henrie, Craig Gorman, Chad Seidel, Vivian Jensen, Carleigh Samson, Nathan MacArthur, Brittany Gregory, and Adam McKeagney

OWP at Sacramento State Team Contributing Authors

Maureen Kerner, Erik Porse, Khalil Lezzaik, Dakota Keene, and Caitlyn Leo

Pacific Institute Team Contributing Authors

Morgan Shimabuku and Lillian Holmes

UNC Team Contributing Authors

Shadi Eskaf

Acknowledgments

We are grateful to Julien Gattaciecca and Jacqueline Adams (UCLA), Laura Feinstein and Leo Rodriguez (Pacific Institute), and Julia Cavalier and Jeff Hughes (UNC) for their advice, analysis and background research which helped to inform this report. We also thank Julia Ekstrom (Department of Water Resources) and Carolina Balazs (Office of Environmental Health Hazards Assessment) for their insight on methodology and coordinating their agency's data sharing which was incorporated into the Risk Assessment. Additionally, we acknowledge the contributions and insights from comment letters received by the Board from a diverse group of stakeholders on a draft version of this report, as well as input received at public meetings and workshops on versions of this work held around the state.

CONTENTS

DEFINITION OF TERMS	4
AFFORDABILITY ASSESSMENT RESULTS	10
Overview	10
Affordability Assessment Methodology	11
Aggregated Affordability Assessment Results	14
Affordability Results by Community Economic Status	14
Affordability Results by Water System SAFER Program Status	20
Small Water System Rates Dashboard	25
Affordability Assessment Limitations	
Affordability Assessment Refinement Opportunities	27
APPENDIX E: AFFORDABILITY ASSESSMENT METHODOLOGY	29
INTRODUCTION	29
Affordability Assessment Methodology Development Process	30
AFFORDABILITY ASSESSMENT METHODOLOGY	30
DAC & SDAC Determination	31
Affordability Indicators	32
% Median Household Income	32
Extreme Water Bill	
% Shut-Offs	38

DEFINITION OF TERMS

This report includes the following defined terms.

"Affordability Threshold" means the level, point, or value that delineates if a water system's residential customer charges, designed to ensure the water systems can provide drinking water that meets State and Federal standards, are unaffordable. For the purposes of the 2021 Affordability Assessment, the State Water Board employed affordability thresholds for the following indicators: Percent Median Household Income; Extreme Water Bill; and Percent Shut-Offs. Learn more about current and future indicators and affordability thresholds in Appendix E.

"**Adequate supply**" means sufficient water to meet residents' health and safety needs at all times. (Health & Saf. Code, § 116681, subd. (a).)

"Administrator" means an individual, corporation, company, association, partnership, limited liability company, municipality, public utility, or other public body or institution which the State Water Board has determined is competent to perform the administrative, technical, operational, legal, or managerial services required for purposes of Health and Safety Code section 116686, pursuant to the Administrator Policy Handbook adopted by the State Water Board. (Health & Saf. Code, §§ 116275, subd. (g), 116686, subd. (m)(1).)

"Affordability Assessment" means the identification of any community water system that serves a disadvantaged community that must charge fees that exceed the affordability threshold established by the State Water Board in order to supply, treat, and distribute potable water that complies with Federal and state drinking water standards. The Affordability Assessment evaluates several different affordability indicators to identify communities that may be experiencing affordability challenges. (Health & Saf. Code, § 116769, subd. (2)(B).

"At-Risk public water systems" or "At-Risk PWS" means community water systems with 3,300 service connections or less and K-12 schools that are at risk of failing to meet one or more key Human Right to Water goals: (1) providing safe drinking water; (2) accessible drinking water; (3) affordable drinking water; and/or (4) maintaining a sustainable water system.

"At-Risk state small water systems and domestic wells" or "At-Risk SSWS and domestic wells" means state small water systems and domestic wells that are located in areas where groundwater is at high risk of containing contaminants that exceed safe drinking water standards. This definition may be expanded in future iterations of the Needs Assessment as more data on domestic wells and state small water systems becomes available.

"California Native American Tribe" means Federally recognized California Native American Tribes, and non-Federally recognized Native American Tribes on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004. (Health & Saf. Code, § 116766, subd. (c)(1).) Typically, drinking water systems for Federally recognized tribes fall under the regulatory jurisdiction of the United States Environmental Protection Agency (U.S. EPA), while public water systems operated by non-Federally recognized tribes currently fall under the jurisdiction of the State Water Board.

"**Capital costs**" means the costs associated with the acquisition, construction, and development of water system infrastructure. These costs may include the cost of infrastructure (treatment solutions, consolidation, etc.), design and engineering costs, environmental compliance costs, construction management fees, general contractor fees, etc. Full details of the capital costs considered and utilized in the Needs Assessment are in Appendix C.

"**Community water system**" or "**CWS**" means a public water system that serves at least 15 service connections used by yearlong residents or regularly serves at least 25 yearlong residents of the area served by the system. (Health & Saf. Code, § 116275, subd. (i).)

"**Consistently fail**" means a failure to provide an adequate supply of safe drinking water. (Health & Saf. Code, § 116681, subd. (c).)

"Consolidation" means joining two or more public water systems, state small water systems, or affected residences into a single public water system, either physically or managerially. For the purposes of this document, consolidations may include voluntary or mandatory consolidations. (Health & Saf. Code, § 116681, subd. (e).)

"**Contaminant**" means any physical, chemical, biological, or radiological substance or matter in water. (Health & Saf. Code, § 116275, subd. (a).)

"**Cost Assessment**" means the estimation of funding needed for the Safe and Affordable Drinking Water Fund for the next fiscal year based on the amount available in the fund, anticipated funding needs, and other existing State Water Board funding sources. Thus, the Cost Assessment estimates the costs related to the implementation of interim and/or emergency measures and longer-term solutions for HR2W list systems and At-Risk public water systems, state small water systems, and domestic wells. The Cost Assessment also includes the identification of available funding sources and the funding and financing gaps that may exist to support interim and long-term solutions. (Health & Saf. Code, § 116769.)

"**Disadvantaged community**" or "**DAC**" means the entire service area of a community water system, or a community therein, in which the median household income is less than 80% of the statewide annual median household income level. (Health & Saf. Code, § 116275, subd. (aa).)

"**Domestic well**" means a groundwater well used to supply water for the domestic needs of an individual residence or a water system that is not a public water system and that has no more than four service connections. (Health & Saf. Code, § 116681, subd. (g).)

"Drinking Water Needs Assessment" or "Needs Assessment" means the comprehensive identification of California drinking water needs. The Needs Assessment consist of three core components: the Affordability Assessment, Risk Assessment, and Cost Assessment. The results of the Needs Assessment inform the State Water Board's annual Fund Expenditure Plan for the Safe and Affordable Drinking Water Fund and the broader activities of the SAFER Program. (Health & Saf. Code, § 116769.)

"Fund Expenditure Plan" or **"FEP**" means the plan that the State Water Board develops pursuant to Article 4 of Chapter 4.6 of the Health and Safety Code for the Safe and Affordable Drinking Water Fund, established pursuant to Health and Safety Code § 116766.

"**Human consumption**" means the use of water for drinking, bathing or showering, hand washing, oral hygiene, or cooking, including, but not limited to, preparing food and washing dishes. (Health & Saf. Code, § 116275, subd. (e).)

"Human Right to Water" or "**HR2W**" means the recognition that "every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking and sanitary purposes," as defined in Assembly Bill 685 (AB 685). (California Water Code § 106.3, subd. (a).)

"Human Right to Water list" or "HR2W list" means the list of public water systems that are out of compliance or consistently fail to meet primary drinking water standards. Systems that are assessed for meeting the HR2W list criteria include Community Water Systems and Non-Community Water Systems that serve K-12 schools and daycares. The HR2W list criteria were expanded in April 2021 to better align with statutory definitions of what it means for a water system to "consistently fail" to meet primary drinking water standards. (California Health and Safety Code § 116275(c).)

"Interim replacement water" or "Interim solution" includes, but is not limited to; bottled water, vended water, and point-of-use or point-of-entry treatment units. (Health & Saf. Code, § 116767, subd. (q).)

"**Loan**" means any repayable financing instrument, including a loan, bond, installment sale agreement, note, or other evidence of indebtedness.

"Local cost share" means a proportion of the total interim and/or long-term project cost that is not eligible for a State grant and would therefore be borne by water systems, their ratepayers, and/or domestic well owners. Some local cost share needs may be eligible for public or private financing (i.e. a loan). Some local costs share needs may not be eligible for financing and is typically funded through available reserves or cash on hand.

"**Maximum contaminant level**" or "**MCL**" means the maximum permissible level of a contaminant in water. (Health & Saf. Code, § 116275, subd. (f).)

"Median household income" or "MHI" means the household income that represents the median or middle value for the community. The methods utilized for calculating median household income are included in Appendix A and Appendix E. Median household incomes in this document are estimated values for the purposes of this statewide assessment. Median household income for determination of funding eligibility is completed on a system by system basis by the State Water Board's Division of Financial Assistance.

"Net present worth" or "NPW" means the estimate of the total sum of funds that need to be set aside today to cover all expenses (capital, including other essential infrastructure costs, and annual O&M) during the potential useful life of the infrastructure investment, which is conservatively estimated at 20-years. The estimate of the total sum of funds is adjusted by an annual discount rate which accounts for the higher real cost of financial outlays in the immediate future when compared to the financial outlays in subsequent years.

"**Non-Community Water System**" means a public water system that is not a community water system. (Health & Saf. Code, § 116275, subd. (j).)

"**Non-transient Non-Community Water System**" means a public water system that is not a community water system and that regularly serves at least 25 of the same persons for six months or more during a given year, such as a school. (Health & Saf. Code, § 116275, subd. (k).)

"**Operations and maintenance**" or "**O&M**" means the functions, duties and labor associated with the daily operations and normal repairs, replacement of parts and structural components, and other activities needed by a water system to preserve its capital assets so that they can continue to provide safe drinking water.

"Other essential infrastructure" or "OEI" encompasses a broad category of additional infrastructure needed for the successful implementation of the Cost Assessment's long-term modeled solutions and to enhance the system's sustainability. OEI includes storage tanks, new wells, well replacement, upgraded electrical, added backup power, replacement of distribution system, additional meters, and land acquisition.

"**Potentially At-Risk**" means community water systems with 3,300 service connections or less and K-12 schools that are potentially at risk of failing to meet one or more key Human Right to Water goals: (1) providing safe drinking water; (2) accessible drinking water; (3) affordable drinking water; and/or (4) maintaining a sustainable water system.

"**Primary drinking water standard**" means: (1) Maximum levels of contaminants that, in the judgment of the state board, may have an adverse effect on the health of persons. (2) Specific treatment techniques adopted by the state board in lieu of maximum contaminant levels pursuant to Health & Saf. Code, § 116365, subd. (j). (3) The monitoring and reporting requirements as specified in regulations adopted by the state board that pertain to maximum contaminant levels. (Health & Saf. Code, § 116275, subd. (c).)

"**Public water system**" or "**PWS**" means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances that has 15 or more service connections or regularly serves at least 25 individuals daily at least 60 days out of the year. A PWS includes any collection, pretreatment, treatment, storage, and distribution facilities under control of the operator of the system that are used primarily in connection with the system; any collection or pretreatment storage facilities not under the control of the operator that are used primarily in connection with the system; and any water system that treats water on behalf of one or more public water systems for the purpose of rendering it safe for human consumption. (Health & Saf. Code, § 116275, subd. (h).)

"**Refined grant needs**" means the estimated costs, generated from the Cost Assessment Model, that have been adjusted by removing costs for water systems that have existing funding agreements with the State Water Board and identifying the proportion of costs that are grant-eligible.

"**Resident**" means a person who physically occupies, whether by ownership, rental, lease, or other means, the same dwelling for at least 60 days of the year. (Health & Saf. Code, § 116275, subd. (t).)

"**Risk Assessment**" means the identification of public water systems, with a focus on community water systems and K-12 schools, that may be at risk of failing to provide an

adequate supply of safe drinking water. It also includes an estimate of the number of households that are served by domestic wells or state small water systems in areas that are at high-risk for groundwater contamination. Different Risk Assessment methodologies have been developed for different system types: (1) public water systems; (2) state small water systems and domestic wells; and (3) tribal water systems. (Health & Saf. Code, § 116769)

"**Risk indicator**" means the quantifiable measurements of key data points that allow the State Water Board to assess the potential for a community water system or a transient noncommunity water system that serves a K-12 school to fail to sustainably provide an adequate supply of safe drinking water due to water quality, water accessibility, affordability, institutional, and/or TMF capacity issues.

"**Risk threshold**" means the levels, points, or values associated with an individual risk indicator that delineates when a water system is more at-risk of failing, typically based on regulatory requirements or industry standards.

"Safe and Affordable Drinking Water Fund" or "SADWF" means the fund created through the passage of Senate Bill 200 (SB 200) to help provide an adequate and affordable supply of drinking water for both the near and long terms. SB 200 requires the annual transfer of 5 percent of the annual proceeds of the Greenhouse Gas Reduction Fund (GGRF) (up to \$130 million) into the Fund until June 30, 2030. (Health & Saf. Code, § 116766)

"Safe and Affordable Funding for Equity and Resilience Program" or **"SAFER Program**" means a set of State Water Board tools, funding sources, and regulatory authorities designed to meet the goals of ensuring safe, accessible, and affordable drinking water for all Californians.

"Safe drinking water" means water that meets all primary and secondary drinking water standards, as defined in Health and Safety Code section 116275.

"**Score**" means a standardized numerical value that is scaled between 0 and 1 for risk points across risk indicators. Standardized scores enable the evaluation and comparison of risk indicators.

"Secondary drinking water standards" means standards that specify maximum contaminant levels that, in the judgment of the State Water Board, are necessary to protect the public welfare. Secondary drinking water standards may apply to any contaminant in drinking water that may adversely affect the public welfare. Regulations establishing secondary drinking water standards may vary according to geographic and other circumstances and may apply to any contaminant in drinking water that adversely affects the taste, odor, or appearance of the water when the standards are necessary to ensure a supply of pure, wholesome, and potable water. (Health & Saf. Code, § 116275, subd. (d).)

"Service connection" means the point of connection between the customer's piping or constructed conveyance, and the water system's meter, service pipe, or constructed conveyance, with certain exceptions set out in the definition in the Health and Safety Code. (See Health & Saf. Code, § 116275, subd. (s).)

"Severely disadvantaged community" or "SDAC" means the entire service area of a community water system in which the MHI is less than 60% of the statewide median household income. (See Water Code § 13476, subd. (j))

"Small community water system" means a CWS that serves no more than 3,300 service connections or a yearlong population of no more than 10,000 persons. (Health & Saf. Code, § 116275, subd. (z).)

"Small disadvantaged community" or **"small DAC**" means the entire service area, or a community therein, of a community water system that serves no more than 3,300 service connections or a year-round population of no more than 10,000 in which the median household income is less than 80% of the statewide annual median household income.

"State small water system" or "SSWS" means a system for the provision of piped water to the public for human consumption that serves at least five, but not more than 14, service connections and does not regularly serve drinking water to more than an average of 25 individuals daily for more than 60 days out of the year. (Health & Saf. Code, § 116275, subd. (n).)

"State Water Board" means the State Water Resources Control Board.

"Technical, Managerial and Financial capacity" or **"TMF capacity**" means the ability of a water system to plan for, achieve, and maintain long term compliance with drinking water standards, thereby ensuring the quality and adequacy of the water supply. This includes adequate resources for fiscal planning and management of the water system.

"Waterworks Standards" means regulations adopted by the State Water Board entitled "California Waterworks Standards" (Chapter 16 (commencing with Section 64551) of Division 4 of Title 22 of the California Code of Regulations). (Health & Saf. Code, § 116275, subd. (q).)

"Weight" means the application of a multiplying value or weight to each risk indicator and risk category within the Risk Assessment, as certain risk indicators and categories may be deemed more critical than others.



AFFORDABILITY ASSESSMENT RESULTS

OVERVIEW

Ensuring drinking water is affordable is key to meeting California's Human Right to Water mandate.¹ The COVID-related economic crisis has served to further highlight the need to address affordability, both to ensure that households can afford the water that they drink as well as to support drinking water systems in maintaining enough financial viability to provide safe reliable drinking water.²

The purpose of the Affordability Assessment is to identify disadvantaged community water systems, that have instituted customer charges that exceed the "Affordability Threshold" established by the State Water Board in order to provide drinking water that meets State and Federal standards.³ Legislation does not define what the Affordability Threshold should be. Nor is there specific guidance on the perspective in which the State Water Board should be assessing the Affordability Threshold. Figure 43 illustrates the nexus of affordability definitions that exist.

Figure 43: Nexus of Affordability Definitions



¹ State Water Board Resolution No. 2016-0010

https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2016/rs2016_0010.pdf

² Drinking Water COVID-19 Financial Impacts Survey | California State Water Resources Control Board

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/covid-19watersystemsurvey.html

³ California Health and Safety Code, § 116769, subd. (a)(2)(B)

- (1) Household Affordability: The ability of individual households to pay for an adequate supply of water.
- (2) Community Affordability: The ability of households within a community to pay for water services to financially support a resilient water system.
- (3) & (4) Water System Financial Capacity: The ability of the water system to financially meet current and future operations and infrastructure needs to deliver safe drinking water. The financial capacity of water systems affects future rate impacts on households. The inability to provide adequate services may lead households served by the system to rely on expensive alternatives such as bottled water.

Affordability of drinking water services is an important challenge to assess because issues surrounding equity and water system sustainability overlap in numerous aspects of addressing affordability challenges and ensuring that all Californians have safe drinking water. Figure 44 illustrates this relationship and the potential consequences of inaction.



Figure 44: The Relationship Between Affordability, Equity and Water System Sustainability

AFFORDABILITY ASSESSMENT METHODOLOGY

The Affordability Assessment is conducted annually for all Californian community water systems. It is worth noting that, while there is some overlap, the systems included in the Affordability Assessment differ from the list of water systems analyzed in the Risk Assessment for public water systems. The Affordability Assessment includes large and small community water systems and excludes non-transient, non-community water systems, like schools. The Risk Assessment, on the other hand, analyzed smaller public water systems with 3,300 service connections or less and non-transient, non-community K-12 schools are included. Table 45 provides an overview of the systems included in the Affordability Assessment.
SAFER Program Status	Risk Assessment	Affordability Assessment
HR2W List Systems	326	276
At-Risk Systems	617	467
Not HR2W or At-Risk System	1,836	2,134
TOTAL:	2,779	2,877

Table 45: Systems Included in the Affordability Assessment

In 2020, the State Water Board conducted an Affordability Assessment for community water systems, which analyzed one affordability indicator, water charges as a percent of median household income (%MHI), for the FY 2020-21 Safe and Affordable Drinking Water Fund Expenditure Plan. The Fund Expenditure Plan used an affordability threshold of 1.5% MHI to identify DAC water systems that may have customer charges that are unaffordable.⁴

For the 2021 Needs Assessment, the State Water Board explored additional affordability indicators to identify disadvantaged communities (DAC)⁵ and Severely Disadvantaged Communities (SDAC)⁶ that may be experiencing affordability challenges. The identification of additional affordability indicators was undertaken in conjunction with the identification of possible affordability risk indicators for the Risk Assessment. A full list of potential affordability indicators & *Recommendations for Risk Assessment 2.0 for Public Water Systems.*⁷

Ultimately, the affordability indicators "Extreme Water Bill" and "% Shut-Offs" were included in the 2021 Risk Assessment and Affordability Assessment alongside %MHI. The State Water Board analyzed all three affordability indicators for the Affordability Assessment and applied the same thresholds as utilized in the Risk Assessment. The prevalence of community water systems that meet these thresholds, and are DAC or SDAC systems, are summarized for each affordability indicator in the sections below.

Additional analysis was conducted to identify the DAC and SDAC water systems that met more than one affordability indicator threshold. Scores of 0 (no threshold met), 1 (lower "minimum"

⁶ Severely Disadvantaged Community or SDAC means the entire service area of a community water system in which the median household income is less than sixty percent of the statewide median household income.

⁷ October 7, 2020 White Paper:

⁴ FY 2020-21 Fund Expenditure Plan

https://www.waterboards.ca.gov/water_issues/programs/grants_loans/sustainable_water_solutions/docs/sadwfep _2020_07_07.pdf

⁵ Disadvantaged Community or DAC mean the entire service area of a community water system, or a community therein, in which the median household income is less than 80 percent of the statewide annual median household income level.

<u>Evaluation of Potential Indicators & Recommendations for Risk Assessment 2.0 for Public Water Systems</u> https://www.waterboards.ca.gov/safer/docs/e_p_i_recommendations_risk_assessment_2_public_water_systems. pdf

threshold met), and 1.5 (higher "maximum" threshold met) were applied to each affordability indicator threshold and tallied across the three indicators for each system to identify which systems may be facing the greatest affordability challenges.

% Median Household Income

This indicator measures annual system-wide average residential customer charges for 6 Hundred Cubic Feet (HCF) per month relative to the annual Median Household Income (MHI) within a water system's service area. Six HCF indoor water usage per month is roughly equivalent to 50 gallons per person per day for a three-person household for 30 days.

Percent median household income (%MHI) is commonly used by state and Federal regulatory agencies and by water industry stakeholders for assessing community-wide water charges affordability for decades. %MHI is utilized by the State Water Board (at 1.5% threshold) and the U.S. EPA (at 2.5% threshold) for assessing affordability. The State Water Board uses %MHI to determine DAC status⁸ and has for some time used the 1.5% MHI threshold in the Drinking Water State Revolving Fund (DWSRF) program as a metric for determining whether a small DAC will receive repayable (loan) or non-repayable (e.g., grant or non-repayable) funding.

The FY 2020-21 Fund Expenditure Plan uses 1.5% of the annual median household income (MHI) of the community served by the water system as the Affordability Threshold. Any community water system with annual customer charges, based on residential customer water usage of six hundred cubic feet (HCF) of water per month, that exceeded 1.5% of the MHI was identified on the list included in Appendix A for the FY 2020-21 Fund Expenditure Plan.⁹

For the 2021 Affordability Assessment, the State Water Board utilized two % MHI affordability thresholds. These thresholds correspond to the same thresholds used in the Risk Assessment. The minimum affordability threshold is 1.5% MHI and the maximum affordability threshold was set at 2.5% MHI. Additional details on the data sources, calculation methodology, and full analysis results for % MHI are in Appendix E.

While exceeding these thresholds alone does not necessarily mean that water charges are unaffordable for a community, the 1.5% and 2.5% MHI affordability thresholds allow for a preliminary evaluation of systems that may have challenges with affordable customer charges.

⁸ It is important to note that the estimated designation of community economic status is for the purposes of the Affordability Assessment only and will not be used by the State Water Board's Division of Financial Assistance (DFA) to make funding decisions. Further MHI analysis on a per system basis will be conducted by DFA when a system seeks State Water Board assistance.

⁹ FY 2020-21 Fund Expenditure Plan Appendix A

https://www.waterboards.ca.gov/board_info/agendas/2020/jul/070720_6_draftfinal_sadwfep_appendices_clean.p df

Extreme Water Bill

This indicator measures drinking water customer charges that meet or exceed 150% and 200% of statewide average drinking water customer charges at the six HCF level of consumption. The State Water Board's AB 401 report¹⁰ recommended statewide low-income rate assistance program elements which utilize the two recommended tiered indicator thresholds of 150% and 200% of the state average drinking water bill for 6 HCF.

% Shut-Offs

This affordability indicator measures the percentage of a water system's residential customer base which experienced service shut-offs due to non-payment in a given year. For the purposes of the State Water Board's Needs Assessment a threshold of 10% or greater customer shut-offs over the last calendar year for non-payment was utilized.

It is worth noting that on April 20, 2020, in response to the COVID-19 crisis, Governor Newsome issued an Executive Order N-42-20 to temporarily restrict water shut-offs due to non-payment.¹¹ The data used for this indicator is from the 2019 reporting year Electronic Annual Report (EAR). While the data utilized in the 2021 Needs Assessment was not impacted by the Executive Order, it will be taken into account in future years of the Needs Assessment.

AGGREGATED AFFORDABILITY ASSESSMENT RESULTS

AFFORDABILITY RESULTS BY COMMUNITY ECONOMIC STATUS

For the 2021 Affordability Assessment, State Water Board staff analyzed 2,877 community water systems, of which approximately 32 water systems lacked the data necessary to calculate any of the three affordability indicators. Some additional water systems lacked the necessary data for calculation of some of the affordability indicators and are summarized in Table 46.

Overall, comparing the three indicators in cases where data were available, systems were slightly more likely to exceed an Extreme Water Bill threshold (22% of systems with data) than a %MHI threshold (21% of systems with data). Systems were much less likely to exceed the % Shut-Offs threshold. Staff identified 592 water systems that exceeded the minimum 1.5% MHI affordability threshold, 222 of which exceeded the maximum 2.5% MHI threshold. Of those, 121 systems were identified that serve DACs and 313 systems that serve SDACs. The Assessment identified 628 water systems that exceeded the minimum 150% extreme water bill threshold and 365 of those systems exceeded the maximum 200% extreme water bill threshold. Of those that exceeded the 150% extreme water bill threshold, 113 systems were

¹⁰ AB 401 Final Report:

<u>Recommendations for Implementation of a Statewide Low-Income Water Rate Assistance Program</u> https://www.waterboards.ca.gov/water issues/programs/conservation portal/assistance/docs/ab401 report.pdf

¹¹ Executive Department, State of California. <u>Executive Order N-42-20</u> https://www.gov.ca.gov/wp-content/uploads/2020/04/4.2.20-EO-N-42-20.pdf

identified that serve DACs and 122 that serve SDACs. Finally, staff identified 139 systems that exceeded the 10%+ shut-offs for non-payment affordability threshold. Of those, 35 systems were identified that serve DACs and 62 that serve SDACs.

Table 46 summarizes the number of water systems, by their community economic status, that exceeded the minimum affordability threshold for each indicator assessed.

Community Status	Total Systems	% MHI Min. Threshold Met	Extreme Water Bill Min. Threshold Met	% Shut-Offs Min. Threshold Met
DAC	578	121 (21%)	113 (20%)	35 (6%)
SDAC	993	313 (32%)	122 (12%)	62 (6%)
Non-DAC	1,210	158 (13%)	393 (32%)	40 (3%)
Missing DAC Status	96	0 (0%)	0 (0%)	2 (2%)
TOTAL:	2,877	592 (21%)	628 (22%)	139 (5%)
Missing Data		201 (7%)	118 (4%)	49 (2%)

Table 46: Aggregated Assessment Results by Community Economic Status

Figure 45: Number of Water Systems, by Community Economic Status, that Exceeded Each Minimum Affordability Indicator Threshold







Population Served by Water Systems

To assess which systems may be facing the greatest affordability challenges, State Water Board staff further analyzed how many water systems exceeded the affordability threshold for one or more affordability indicator (Table 47). Of the 2,877 water systems analyzed, two thirds of water systems (n=1911) did not exceed any of the minimum affordability thresholds for the three indicators assessed. It is worth noting, there are no clear trends across community economic status and the number of systems exceeding affordability thresholds.

Staff identified 585 water systems that exceeded only one of the three minimum affordability thresholds, 46 of which are DACs and 224 are SDACs. The Assessment identified 267 water systems that exceeded two of the three minimum affordability thresholds, 73 of which are DACs and 74 are SDACs. Finally, staff identified 139 water systems that exceeded all three minimum affordability thresholds; 35 of these water systems are DACs and 60 are SDACs. It is worth noting that of the 139 water systems that exceeded all three affordability indicator thresholds, 7 systems exceeded all maximum affordability thresholds (e.g. 2.5% MHI, 200% Extreme Water Bill, and 10% or greater % Shut-Offs).

Community Status	Total Systems	None	1 Indicator	2 Indicators	3 Indicators
DAC	578	416 (72%)	46 (8%)	73 (13%)	35 (6%)
SDAC	993	627 (63%)	224 (23%)	74 (7%)	60 (6%)
Non-DAC	1,210	784 (65%)	256 (21%)	120 (10%)	44 (4%)
Missing DAC Status	96	84 (88%)	2 (2%)	0 (0%)	0 (0%)
TOTAL:	2,877	1,911 (66%)	528 (18%)	267 (9%)	139 (5%)
Missing Data		32* (1%)			

Table 47. Total Number of Systems that Exceeded an Anordability mulcator threshold
--

* These water systems were missing data necessary to calculate all three affordability indicators. All other water systems had sufficient data to calculate at least one affordability indicator.

Figure 47: Total Number of Systems, by Community Economic Status, that Exceeded an Affordability Indicator Threshold



Figure 48: Population of Water Systems, by Community Economic Status, that Exceeded an Affordability Indicator Threshold



Population Served by Water Systems



Figure 49: All Water Systems that Exceeded an Affordability Indicator Threshold (n=2,189)*

* 86 water systems were not able to be mapped due to missing service area boundaries.

Figure 50: DAC and SDAC Water Systems that Exceeded an Affordability Indicator Threshold (n=1,554)*



* One system was unable to be mapped due to missing service area boundary.

AFFORDABILITY RESULTS BY WATER SYSTEM SAFER PROGRAM STATUS

While SB 200 only mandates the identification of DAC water systems that have customer charges that exceed affordability thresholds, the 2021 Affordability Assessment also identified if HR2W list and At-Risk public water systems exceeded affordability thresholds as well. Table 48 and the section below summarizes the number of failing HR2W list and At-Risk water systems, by their community economic status, that exceeded the minimum affordability threshold for each indicator assessed.

% MHI: Staff identified 77 HR2W list systems (10 DAC and 56 SDAC) and 119 At-Risk (20 DAC and 63 SDAC) water systems that exceeded the minimum 1.5% MHI affordability threshold. Of these, 32 HR2W list systems (5 DAC and 23 SDAC) and 55 At-Risk (5 DAC and 40 SDAC) water systems exceeded the maximum 2.5% MHI threshold.

Extreme Water Bill: 54 HR2W list systems (10 DAC and 20 SDAC) and 106 At-Risk (19 DAC and 33 SDAC) water systems exceeded the minimum 150% statewide MHI affordability threshold. Of these, 29 HR2W list systems (6 DAC and 8 SDAC) and 67 At-Risk (9 DAC and 17 SDAC) systems exceeded the maximum 200% statewide MHI threshold.

% Shut-Offs: Finally, staff identified 21 HR2W list systems (4 DAC and 13 SDAC) and 17 At-Risk (2 DAC and 12 SDAC) water systems that exceeded the 10% or greater shut-offs for nonpayment affordability threshold.

The full results of this analysis by affordability indicator are detailed in Appendix E.

Table 48: Aggregated Affordability Assessment Results by Water System SAFER Program Status

SAFER Program Status*	Total Systems	% MHI Min. Threshold Met	Extreme Water Bill Min. Threshold Met	% Shut-Offs Min. Threshold Met
HR2W Systems	276	77 (28%)	54 (20%)	21 (8%)
HR2W DAC	45	10	10	4
HR2W SDAC	142	56	20	13
At-Risk Systems	467	119 (25%)	106 (23%)	17 (4%)
At-Risk DAC	103	20	19	2
At-Risk SDAC	189	63	33	12
Not HR2W or At- Risk System	2,134	396 (19%)	468 (22%)	101 (5%)
DAC	430	91	84	29
SDAC	662	194	69	37
TOTAL:	2,877	592 (21%)	628 (22%)	139 (5%)
Missing Data		201 (7%)	118 (4%)	49 (2%)

* Water systems that are not DAC/SDAC or are missing DAC status designations are excluded from sub-categories within this table.

Figure 51: Total Number of HR2W List and At-Risk Water Systems that Exceeded Each Minimum Affordability Indicator Threshold



Number of Water Systems Exceeding Min. Threshold

Figure 52: Total Population of Water Systems that Exceeded Each Affordability Indicator Threshold



Population Served by Water Systems

Further analysis of the aggregated Affordability Assessment results shows that HR2W list systems and At-Risk water systems exceeded one or more affordability thresholds at the same proportion (within 30%) as Not-HR2W or Not At-Risk water systems (Table 49).

Cable 49: Aggregated Affordability Assessment Results by Water System SAFER	
Program Status: Total Number of Systems that Exceeded an Affordability Indicator	,
Threshold	

SAFER Program Status	Total Systems	None	1 Indicator	2 Indicators	3 Indicators
HR2W Systems	276	168 (61%)	58 (21%)	28 (10%)	18 (7%)
HR2W DAC	45	30	3	5	5
HR2W SDAC	142	77	38	16	9
At-Risk Systems	467	311 (67%)	63 (13%)	54 (12%)	34 (7%)
At-Risk DAC	103	80	5	13	5
At-Risk SDAC	189	114	39	17	16
Not HR2W or At-Risk System	2,134	1,432 (67%)	407 (19%)	185 (7%)	87 (4%)
DAC	430	306	38	55	23
SDAC	662	436	147	41	34
TOTAL:	2,877	1,911 (66%)	528 (18%)	267 (9%)	139 (5%)
Missing Data		32* (1%)			

* These water systems were missing data necessary to calculate all three affordability indicators. All other water systems had sufficient data to calculate at least one affordability indicator.

Figure 53: Total Number of HR2W List and At-Risk Systems that Exceeded an Affordability Indicator Threshold



Figure 54: Total Population of Water Systems that Exceeded an Affordability Indicator Threshold





Figure 55: HR2W List and At-Risk Water Systems that Exceeded an Affordability Indicator Threshold (n=932)*

*Two water systems were not able to be mapped due to missing service area boundaries.

SMALL WATER SYSTEM RATES DASHBOARD

The California Small Water Systems Rates Dashboard (dashboard) is an online information sharing resource with an interactive interface that allows users to compare or benchmark residential rates, financial, and system performance data of community water systems serving between 500 and 3,300 connections. This dashboard was commissioned by the State Water Board as a pilot resource for small community water systems as part of the Needs Analysis contract with UCLA. The dashboard was created by the Environmental Finance Center at the University of North Carolina, Chapel Hill (EFC at UNC), working with the UCLA Luskin Center for Innovation, during the spring and summer of 2020. A publicly available white paper¹² on the dashboard was published and a public webinar was held on its potential uses on October 30, 2020.¹³ The release of the publication and webinar was followed by a public comment period.

The dashboard utilizes an interactive interface that visualizes information via easy-tounderstand graphics. The visualization allows the user to gain a multi-faceted understanding of the water system's financial health and performance. The dashboard is already populated with data for each water system and no data inputs are required.

The dashboard was created with data that were available during the summer of 2020. Not all data were available for every water system on the dashboard. As detailed in the white paper and dashboard itself, key data categories are: residential water rates and rate structures, water system financial indicators, other water system characteristics including compliance status data, and socioeconomic and population data joined from the U.S. Census. The data displayed in the dashboard are not updated by the State Water Board or the EFC at UNC. The State Water Board is exploring how tools like the dashboard can help water systems better assess affordability of drinking water services in their community.



Explore the Rates Dashboard

The California Small Water Systems Rates Dashboard allows comparison and benchmarking of water rates, financial metrics, and other system performance measures with peers, according to important factors such as system size and customer demographics.

https://efc.sog.unc.edu/resource/californiasmall-water-systems-rates-dashboard

¹² October 30, 2020 White Paper:

Introducing the California Small Water Systems Rates Dashboard

https://www.waterboards.ca.gov/drinking_water/programs/safer_drinking_water/docs/introducing_california_small _water_systems_rates_dashboard.pdf

¹³ October 30, 2020 Webinar Presentation

https://www.waterboards.ca.gov/drinking_water/programs/safer_drinking_water/docs/rates_dashboard.pdf

AFFORDABILITY ASSESSMENT LIMITATIONS

The 2021 Affordability Assessment makes progress in identifying communities that may be struggling with water affordability challenges; however, State Water Board staff have identified the following limitations that are worth noting:

Affordability Assessment Scope

As described above, there are multiple lenses through which to assess water "affordability." SB 200 does not define how the State Water Board should measure affordability. Nor does it specify if the "Affordability Threshold" is meant to assess household affordability, community affordability, and/or a water system's financial capacity. All three aspects of affordability are interrelated, but metrics or indicators that measure each can differ greatly. More engagement with the public, water systems, and stakeholders is needed to better define the scope of the Affordability Assessment and how its results will be utilized.

Affordability Indicator Data

The State Water Board acknowledges that there are some data coverage issues and data quality uncertainties for all the affordability indicators utilized in the Affordability Assessment. Customer charges, MHI, and/or customer shut-off data are not available for some water systems included in this assessment. Water system customer charge data do not always represent the current same or current year for systems in the Affordability Assessment and Risk Assessment. This data is self-reported and has historically lacked full quality assurance. Finally, water system boundaries, which are used to calculate MHI, may not be accurate. In some cases, they reflect a water system's jurisdiction boundary rather than their service area boundary.

An additional consideration that may be impacting the results of the Affordability Assessment is that water system customer charges may not reflect the full cost water systems face in order to meet current and future operations and infrastructure needs to deliver safe drinking water. For example, many small water systems lack asset management plans, capital improvement plans, and financial plans to assist them in setting customer charges appropriately. This may result in customer charges that are lower than what is needed to support resilient water systems. If more systems were to implement full-cost pricing of their customer charges, the Affordability Assessment results may be different.

Affordability Indicators

There has been criticism of %MHI by academics, water system associations, and the broader water sector mostly around its accuracy in measuring household affordability for those truly in need and the setting of arbitrary %MHI thresholds, limitations which the U.S. EPA has recently acknowledged. Furthermore, some affordability indicators may be more applicable to some governance types of systems than others. For instance, some of the feedback received on the affordability indicators from the Risk Assessment public engagement was that using ratesbased indicators, like %MHI and Extreme Water Bill, does not capture the ways in which some systems finance the full cost of service provision. Another point raised was that some individual water systems are connected to larger utility structures that help mitigate affordability challenges in ways that are not currently in the Affordability Assessment.

It is also worth noting that many other State agencies are developing and utilizing affordability indicators in similar complementary efforts. The selection of affordability indicators for the Needs Assessment fully considered affordability indicators used by the Office of Environmental Health Hazard Assessment (OEHHA), the Department of Water Resources (DWR), and the California Public Utilities Commission (CPUC). However, many of the indicators selected for the Needs Assessment differ from those used by these other efforts. The use of different indicators, and corresponding thresholds, across State agencies and Federal agencies can lead to some confusion for water systems and communities. The State Water Board will continue to collaborate with other State agencies and work towards better alignment.

AFFORDABILITY ASSESSMENT REFINEMENT OPPORTUNITIES

The State Water Board will be conducting the Affordability Assesses on an annual basis as part of the Needs Assessment. To begin addressing the limitations highlighted above, the State Water Board will begin exploring new opportunities to refine the next iteration of the Affordability Assessment:

Better Define Affordability Scope

The State Water Board will begin conducting targeted stakeholder engagement to better define the scope of the Affordability Assessment.

Improved Data Collection Efforts

The State Water Board has already begun taking necessary steps to improve data coverage and accuracy for the Affordability Assessment. Improvements to the 2020 reporting year EAR include new requirements for completing survey questions focused on customer charges and affordability.¹⁴ EAR functionality has been developed that will help auto-calculate average customer charges for 6 HCF, which will help reduce data errors. Furthermore, the EAR will be able to better distinguish between water systems that do not charge for water compared to those that do.

Refinement of Affordability Indicators and Thresholds

During the Risk Assessment methodology development process, three additional Affordability indicators were recommended for inclusion in future iterations of the Risk Assessment and, potentially, the Affordability Assessment as well:¹⁵ 'Household Burden Indicator,' 'Poverty Prevalence Indicator,' and 'Housing Burden.'¹⁶ The State Water Board will begin conducting

¹⁴ <u>Electronic Annual Report (EAR) | California State Water Resources Control Board</u> https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/ear.html

¹⁵ October 7, 2020 White Paper:

<u>Evaluation of Potential Indicators and Recommendations for Risk Assessment 2.0 for Public Water Systems</u> https://www.waterboards.ca.gov/safer/docs/e_p_i_recommendations_risk_assessment_2_public_water_systems. pdf

¹⁶ *Household Burden Indicator*: This indicator measures the economic burden that relatively low income households face in paying their water service costs by focusing on the percent of these costs to the 20th percentile income (i.e. the Lowest Quintile of Income (LQI) for the service area). This indicator is calculated by adding the average drinking water customer charges, dividing them by the 20th Percentile income in a community water system, and multiplying this by one hundred.

the proper research and stakeholder engagement needed to develop the appropriate affordability thresholds necessary for inclusion in the Risk Assessment and potentially the Affordability Assessment as well.

Improved Aggregated Assessment

Moving forward, the State Water Board will explore the possibility of developing a singular Affordability Threshold that can then be applied to a combined assessment of the identified affordability indicators.

Further consideration will also be given to how systems that do not charge for water services or have extremely low customer charges should be assessed for affordability and more broadly for risk. These systems may be more at-risk for falling out of water quality compliance or may be imposing affordability burdens on their customers through other means other than customer charges.

Poverty Prevalence Indicator: This indicator measures the percentage of population served by a community water system that lives at or below 200% the Federal Poverty Level. This measurement indicates the degree to which relative poverty is prevalent in the community.

Housing Burden: This indicator measures the percent of households in a water system's service area that are both low income and severely burdened by housing costs (paying greater than 50% of their income for housing costs). This metric is intended to serve as an indicator of the affordability challenges low-income households face with respect to other non-discretionary expenses, which may impact their ability to pay for drinking water services.

APPENDIX E: AFFORDABILITY ASSESSMENT METHODOLOGY

INTRODUCTION

The purpose of the Affordability Assessment is to identify disadvantaged community (DAC) and severely disadvantages community (SDAC) water systems, that have instituted customer charges that exceed the "Affordability Threshold" established by the State Water Board in order to provide drinking water that meets State and Federal standards.¹⁷

The Affordability Assessment is conducted annually for all Californian community water systems. It is worth noting that, while there is some overlap, the systems included in the Affordability Assessment differ from the list of water systems analyzed in the Risk Assessment for public water systems. The Affordability Assessment includes large and small community water systems but excludes non-transient, non-community water systems, like schools. The Risk Assessment, on the other hand, analyzed smaller public water systems with 3,300 service connections or less and non-transient, non-community K-12 schools are included. Both assessments exclude all transient water systems, state small water systems and domestic wells. Table E1 provides an overview of the systems included in the Affordability Assessment.

SAFER Program Status	Risk Assessment	Affordability Assessment
HR2W List Systems	326	276
At-Risk Systems	617	467
Not HR2W or At-Risk System	1,836	2,134
TOTAL:	2,779	2,877

Table E1: Systems Included in the Affordability Assessment

The difference in the number of HR2W list systems and At-Risk systems between the Risk Assessment and Affordability Assessment in Table E1 demonstrates the impact of the type of systems analyzed. For example, schools on the HR2W list were not assessed for affordability and make up a large portion of the change in numbers assessed between the two pieces of the Needs Assessment.

¹⁷ California Health and Safety Code, § 116769, subd. (a)(2)(B)

AFFORDABILITY ASSESSMENT METHODOLOGY DEVELOPMENT PROCESS

From April through October 2020, the State Water Board and UCLA conducted extensive research and public engagement to identify potential affordability indicators that could be used to assess affordability challenges in both the Risk Assessment and Affordability Assessment. This effort identified 23 potential affordability indicators (white paper, Table 10)¹⁸ and six were ultimately recommended (Table E2). Three of the recommended affordability indicators were not used in either the 2021 Risk Assessment or the Affordability Assessment because the State Water Board did not have sufficient time to conduct the proper research and stakeholder engagement needed to develop appropriate affordability thresholds for the 2021 Needs Assessment. The State Water Board will begin conducting the proper research and stakeholder engagement needed to develop the appropriate affordability thresholds necessary for inclusion in the Risk Assessment and potentially the Affordability Assessment as well.

Affordability Indicator	Affordability Assessment
Percent of Median Household Income (%MHI)	2020, 2021
Extreme Water Bill	2021
% Shut-Offs	2021
Household Burden Indicator (HBI)	Future
Poverty Prevalence Indicator (PPI)	Future
Housing Burden	Future

Table E2: Recommended Affordability Indicators

AFFORDABILITY ASSESSMENT METHODOLOGY

In 2020, the State Water Board conducted an Affordability Assessment for community water systems, which analyzed one affordability indicator, water charges as a percent of median household income (%MHI), for the FY 2020-21 Safe and Affordable Drinking Water Fund Expenditure Plan. The Fund Expenditure Plan used an affordability threshold of 1.5% MHI to identify DAC water systems that may have customer charges that are unaffordable.¹⁹

For the 2021 Needs Assessment, the State Water Board explored additional affordability indicators to identify DACs and SDACs that may be experiencing affordability challenges.

¹⁹ FY 2020-21 Fund Expenditure Plan

https://www.waterboards.ca.gov/water_issues/programs/grants_loans/sustainable_water_solutions/docs/sadwfep _2020_07_07.pdf

¹⁸ White Paper: Evaluation of Potential Indicators and Recommendations for Risk Assessment 2.0 for Public Water Systems

https://www.waterboards.ca.gov/safer/docs/e_p_i_recommendations_risk_assessment_2_public_water_systems.pdf

Ultimately, the affordability indicators "Extreme Water Bill" and "% Shut-Offs" were included in the 2021 Risk Assessment and Affordability Assessment alongside %MHI. The State Water Board analyzed all three affordability indicators for the Affordability Assessment and applied the same thresholds as utilized in the Risk Assessment (summarized in the sections below).

Additional analysis was conducted to identify the DAC and SDAC water systems, HR2W list systems, and At-Risk water systems that met more than one affordability indicator threshold. Scores of 0 (no threshold met), 1 (lower "minimum" threshold met), and 1.5 (higher "maximum" threshold met) were applied to each affordability indicator threshold and tallied across the three indicators for each system to identify which systems may be facing the greatest affordability challenges.

DAC & SDAC DETERMINATION

SB 200 requires the identification of DAC systems that meet the Affordability Threshold. For the purposes of the Affordability Assessment, the State Water Board determined DAC and SDAC economic status for water systems using available data.

Disadvantaged Community or DAC mean the entire service area of a community water system, or a community therein, in which the MHI is less than 80% of the statewide annual MHI level.

Severely Disadvantaged Community or SDAC means the entire service area of a community water system in which the MHI is less than 60% of the statewide MHI.

The State Water Board used the methodology detailed below to estimate MHI. It is important to note that the estimated designation of community economic status is for the purposes of the Affordability Assessment only and will not be used by the State Water Board's Division of Financial Assistance (DFA) to make funding decisions. Further MHI analysis on a per system basis will be conducted by DFA when a system seeks State Water Board assistance.

Community Economic St	atus	Total Systems	HR2W List Systems	At-Risk Systems
DAC		578	45	103
SDAC		993	142	189
Non-DAC		1,210	76	161
Missing DAC Status		96	13	14
Т	OTAL:	2,877	276	467

Table E3: Water System Community Economic Status for the Affordability Assessment

AFFORDABILITY INDICATORS

% MEDIAN HOUSEHOLD INCOME

This indicator measures the annual system-wide average residential water bill for 6 Hundred Cubic Feet (HCF) per month relative to the annual Median Household Income (MHI) within a water system's service area. To calculate %MHI for individual water systems, MHI must be determined for the water service area and customer charges are needed. The following section provides an overview of how the State Water Board determined these two datapoints and calculated %MHI.

Calculation Methodology

Required Risk Indicator Data Points & Sources:

- Water system service area boundaries: System Area Boundary Layer (SABL).²⁰
- 2015-2019 block group-Income: U.S. Census Bureau's American Community Survey.
- Drinking Water Customer Charges: Electronic Annual Report (EAR).

Average monthly drinking water customer charges is collected through the EAR. However, this data has historically not been required for reporting. Therefore, the 2019 EAR data had coverage and accuracy issues. The State Water Board attempted to validate and supplement this dataset through a water rate survey conducted in November 2020. Additionally, customer charges data was collected through the UNC EFC's development of the Small Water System's Rates Dashboard. This data was used when available and applicable. It is anticipated that the coverage and accuracy of drinking water customer charges data will improve with the revisions made to the 2020 reporting year EAR.

Risk Indicator Calculation Methodology:

Median household income (MHI) is determined for a water system using American Community Survey data for household income. Community Water System boundaries typically do not align with census boundaries where per capita income data is regularly collected. In order to assign an average median household income to a community water system spatially weighted income data is aggregated by census block group within the water system service area.

The methodology for this indicator was based on the Division of Financial Assistance (DFA) MHI methodology. While the MHI calculation methodology for the Affordability Assessment generally aligns with the DFA MHI determination methodologies, there are slight differences. The differences found in the calculation of MHI's for cities and census designated places and in the application of the Margin of Error (MOE).

The DFA methodology dictates that when it is determined that a system boundary exactly matches city boundaries or closely matches a census designated place boundary, the MHI for

²⁰ State Water Board System Area Boundary Layer (SABL)

https://gispublic.waterboards.ca.gov/portal/apps/webappviewer/index.html?id=272351aa7db14435989647a86e6d 3ad8

the entire city or census designated place should be directly applied to the system rather than using areally-interpolated block group data. This likely leads to more accurate MHI estimation in these cases. However, this method was not used in the Affordability Assessment given that a case by case determination of matching of cities and census designated places to system boundaries was not feasible for the entire state. The MHI for each water system is a population-weighted MHI, using census block group area and population data. A population factor is generated based on the area of each census block group that falls within the water system boundary. The water system MHI is then calculated using population-adjusted MHIs for each census block group that falls within the water system boundary using the formula below:

$\sum \frac{(Block \ Group \ MHI) \times (Adjusted \ Block \ Group \ Population)}{(Total \ Adjusted \ Block \ Groups \ Population)}$

MOE for MHI American Community Survey data is also included in the MHI calculation. A population adjusted MOE is found using the same methodology described for MHI. The lower range of the MOE will be applied to a community's estimated MHI up to a maximum MOE value of \$7,500 for communities with more than 500 people and \$15,000 for communities with 500 or fewer people. The MOE will be subtracted from the estimated MHI.

The DFA methodology uses a lower bound MHI by subtracting the block group MOE from the block group MHI, with limits based on community size prior to applying the population factor to MHI and MOE. The methodology applied in the Needs Assessment set margin of error limits and then applied them to population adjusted MHI figures, resulting in slightly different community water system MHI calculations than the DAF methodology.

As a result of these slight variations and the changing nature of household income, all funding related financial assessments must be completed by the DFA as their assessments are water system specific as opposed to the aggregated analysis done for the purposes of the Needs Assessment.

Average monthly drinking water customer charges are calculated using:

- Drinking water service costs estimated at 6 Hundred Cubic Feet per month. This level of consumption is in line with statewide conservation goals of 55 gallons per capita per day, in an average 3-person household.
- When data becomes available, additional approximated customer charges (not collected through a customer's bill) will be added to this figure to calculate Total Drinking Water Customer Charges.

%MHI = [Average Monthly Drinking Water Changes] / [MHI]

Threshold Determination

%MHI is commonly used by state and Federal regulatory agencies and by water industry stakeholders for assessing community-wide water charges affordability for decades. %MHI is utilized by the State Water Board (at 1.5% threshold) and the U.S. EPA (at 2.5% threshold) for assessing affordability. The State Water Board and DWR use %MHI to determine

Disadvantaged Community (DAC) status, among other income-related metrics. DAC status is often used to inform funding eligibilities for different financial programs offered by the State and other agencies. OEHHA's Human Right to Water (HR2W) tool also utilizes²¹ the thresholds determined by the State Water Board for this indicator.²² Other states, including North Carolina,²³ presently or have recently used 1.5% of MHI spent on water and sewer costs as a threshold for water system funding decisions.

Threshold Number	Threshold	Score
0	Below 1.5% MHI	0
1	1.5% to 2.49% MHI	1
2	2.5% MHI or greater	1.5

Table E4: % MHI Affordability Thresholds

Indicator Analysis

State Water Board staff analyzed 2,877 community water systems, of which approximately 118 CWSs lacked the data necessary to estimate water rates and 83 water systems lacked the data to estimate MHI. Of the 2,676 water systems with sufficient data, staff identified 592 water systems that exceeded the 1.5% MHI affordability threshold, 222 of which exceeded 2.5% MHI. Of those, 121 systems were identified that serve DACs and 313 systems that serve SDACs. Tables E5 and E6 summarize the full results of this indicator analysis. The tables of the full results from the affordability threshold calculations are included in Attachment E1.²⁴

Community Status	Total Systems	Threshold Not Met	Threshold 1 Met (1.5%)	Threshold 2 Met (2.5%)
DAC	570	449 (79%)	89 (15%)	32 (6%)
SDAC	902	589 (65%)	161 (18%)	152 (17%)
Non-DAC	1,204	1,046 (87%)	120 (10%)	38 (3%)

Table E5: % MHI Assessment Results by Community Status

²¹ On the other hand, there has been criticism of this metric by academics, water system associations, and the broader water sector mostly around its accuracy in measuring household affordability for those truly in need and the setting of arbitrary %MHI thresholds, limitations which the U.S. EPA has recently acknowledged.

²² Arkansas Natural Resources Commission (2020). <u>Safe Drinking Water Fund Intended Use Plan SFY 2019</u>: https://www.agriculture.arkansas.gov/wp-content/uploads/2020/05/0_-_2019_DWSRF_IUP_-_AMENDED_January_2019_01082019_1156hrs.pdf

²³ North Carolina Department of Environmental Quality, <u>Joint Legislative Economic Development and Global</u> <u>Engagement Oversight Committee (March 17, 2016)</u>:

https://www.ncleg.gov/DocumentSites/Committees/JLEDGEOC/2015-2016/Meeting%20Documents/3%20-%20March%2017,%202016/2%20%20DEQ_Kim%20Colson%20Water%20Infrastructure%20JLOC%20EDGE%2 020160317.pdf

²⁴ Attachment E1: 2021 Affordability Assessment Data

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/e1.xlsx

Community Status	Total Systems	Threshold Not Met	Threshold 1 Met (1.5%)	Threshold 2 Met (2.5%)
TOTAL:	2,676	2,084 (78%)	370 (14%)	222 (8%)
Missing Data	201			

Table E6: %MHI Assessment Results by Water System SAFER Program Status

SAFER Program Status	Total Systems	Threshold Not Met	Threshold 1 Met (1.5%)	Threshold 2 Met (2.5%)
HR2W Systems	256	179 (70%)	45 (18%)	32 (12%)
HR2W DAC	43	33	5	5
HR2W SDAC	137	81	33	23
At-Risk Systems	434	315 (73%)	64 (15%)	55 (13%)
At-Risk DAC	103	83	15	5
At-Risk SDAC	172	109	23	40
Not HR2W or At- Risk System	1,986	1,590 (80%)	261 (13%)	135 (7%)
DAC	424	333	69	22
SDAC	593	399	105	89
TOTAL:	2,676	2,084 (78%)	370 (14%)	222 (8%)
Missing Data	201			

Figure E1: Distribution of %MHI, Excluding 12 Systems Above 10% (n=2,664)



EXTREME WATER BILL

This indicator measures drinking water customer charges that meet or exceed 150% of statewide average drinking water customer charges at the 6 Hundred Cubic Feet (HCF) level of consumption.

Calculation Methodology

Required Risk Indicator Data Points & Sources:

- Drinking Water Customer Charges: EAR
- Other Customer Charges: EAR

Average monthly drinking water customer charges is collected through the EAR. However, this data has historically not been required for reporting. Therefore, the 2019 EAR data had coverage and accuracy issues. The State Water Board attempted to validate and supplement this dataset through a water rate survey conducted in November 2020. Additionally, customer charges data was collected through the UNC EFC's development of the Small Water System's Rates Dashboard. This data was used when available and applicable. It is anticipated that the coverage and accuracy of drinking water customer charges data will improve with the revisions made to the 2020 reporting year EAR.

Risk Indicator Calculation Methodology:

Extreme Water Bill for a water system is determined using Average Monthly 6 HCF Drinking Water Customer Charges and Other Customer Charges divided by the State's Monthly Average Drinking Water Charges. The Risk Assessment is applied to water systems with less than 3,300 service connections, however, this methodology utilizes the statewide average customer charges to calculate extreme water bill, which includes systems with greater than 3,300 connections.

Threshold Determination

The State Water Board's AB 401 report²⁵ recommended statewide low-income rate assistance program elements utilize the two recommended tiered indicator thresholds of 150% and 200% of the state average drinking water bill for 6 CCF of service.

Threshold Number	Threshold	Score
0	Below 150% of the statewide average.	0
1	Greater than 150% of the statewide average.	1
2	Greater than 200% of the statewide average.	1.5

Table E7: Extreme Water Bill Affordability Thresholds

²⁵ AB 401 Final Report "<u>Recommendations for Implementation of a Statewide Low-Income Water Rate Assistance</u> <u>Program</u>"

https://www.waterboards.ca.gov/water_issues/programs/conservation_portal/assistance/docs/ab401_report.pdf

Indicator Analysis

State Water Board staff analyzed 2,877 community water systems, of which approximately 118 water systems lacked the data necessary to estimate water rates. Of the 2,759 water systems with sufficient data, staff identified 628 systems that exceeded the 150% statewide MHI affordability threshold and 365 of those systems exceeded the 200% statewide MHI threshold. Of those that exceeded the 150% MHI affordability threshold, 113 systems were identified that serve DACs and 122 that serve SDACs. Tables E8 and E9 summarize the full results of this indicator analysis. The tables of the full results from the affordability threshold calculations are included in Attachment E1.²⁶

Community Status	Total Systems	Threshold Not Met	Threshold 1 Met (150%)	Threshold 2 Met (250%)
DAC	570	457 (80%)	57 (10%)	56 (10%)
SDAC	985	863 (88%)	60 (6%)	62 (6%)
Non-DAC	1,204	811 (67%)	146 (12%)	247 (21%)
TOTAL:	2,759	2,131 (77%)	263 (10%)	365 (13%)
Missing Data	118			

Table E8: Extreme Water Bill Assessment Results by Community Status

Table E9: Extreme Water Bill Assessment Results by Water System SAFER Program Status

SAFER Program Status	Total Systems	Threshold Not Met	Threshold 1 Met (150%)	Threshold 2 Met (250%)
HR2W Systems	259	205 (79%)	25 (10%)	29 (11%)
HR2W DAC	43	33	4	6
HR2W SDAC	140	120	12	8
At-Risk Systems	449	343 (76%)	39 (9%)	67 (15%)
At-Risk DAC	103	84	10	9
At-Risk SDAC	187	154	16	17
Not HR2W or At- Risk System	2,051	1,583 (77%)	199 (10%)	269 (13%)
DAC	658	340	43	41
SDAC	424	589	32	37
TOTAL:	2,759	2,131 (77%)	263 (10%)	365 (13%)
Missing Data	118			

²⁶ Attachment E1: 2021 Affordability Assessment Data

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/e1.xlsx





% SHUT-OFFS

Percentage of residential customer base with service shut-offs due to non-payment in a given year.

Calculation Methodology

Required Risk Indicator Data Points & Sources:

- Number of residential service connections with water shut-off more than once due to failure to pay: EAR
 - Total Single-Family Shut-offs
 - Total Multi-Family Shut-offs
- Total Number of Service Connections: EAR

Risk Indicator Calculation Methodology:

% Shut-Offs = ([Total Single-Family Shut-offs + Total Multi-Family Shut-offs] / Total Number of Service Connections) X 100

Threshold Determination

An indicator threshold for the percent of residential service connections shut-off due to nonpayment, as defined here or a similar measure, has not to the State Water Board's knowledge been assessed in other previous studies as related to water system failure or to determine affordability challenges. However, a standard of zero has been employed by the State,²⁷ other regulatory agencies and stakeholders as a threshold of concern particularly during the COVID-19 pandemic. For the purposes of the State Water Board's Needs Assessment a threshold of 10% or greater customer shut-offs over the last calendar year for non-payment was utilized.

Threshold Number	Threshold	Score
0	Below 10% customer shut-offs	0
1	Greater 10% or greater customer shut-offs.	1

Table E10: % Shut-Offs Affordability Thresholds

Indicator Analysis

State Water Board staff analyzed 2,877 community water systems, of which approximately 49 water systems lacked the data necessary estimate the percent of customers who had their services shut-off due to non-payment. Of the 2,828 water systems with sufficient data, staff identified 139 systems that exceeded the 10% or greater shut-offs for non-payment affordability threshold. Of those, 35 systems were identified that serve DACs and 62 that serve SDACs. Tables E11 and E12 summarize the full results of this indicator analysis. The tables of the full results from the affordability threshold calculations are included in Attachment E1.²⁸

Table E11: % Shut-Offs Assessment Results by Community Status

Community Status	Total Systems	Threshold Not Met	Threshold Met (10% or more)
DAC	569	534 (94%)	35 (6%)
SDAC	974	912 (94%)	62 (6%)
Non-DAC	1,199	1,159 (97%)	40 (3%)
Missing DAC Status	86	84 (98%)	2 (2%)
TOTAL:	2,828	2,689 (95%)	139 (5%)
Missing Data	49		

²⁷ Executive Order N-42-20

https://www.gov.ca.gov/wp-content/uploads/2020/04/4.2.20-EO-N-42-20-text.pdf

²⁸ Attachment E1: 2021 Affordability Assessment Data

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/e1.xlsx

SAFER Program Status	Total Systems	Threshold Not Met	Threshold Met (10% or more)
HR2W Systems	271	250 (92%)	21 (8%)
HR2W DAC	43	39	4
HR2W SDAC	139	126	13
At-Risk Systems	457	440 (96%)	17 (4%)
At-Risk DAC	102	100	2
At-Risk SDAC	186	174	12
Not HR2W or At-Risk System	2,100	1,999 (95%)	101 (5%)
DAC	424	612	29
SDAC	649	395	37
TOTAL:	2,828	2,689 (95%)	139 (5%)
Missing Data	49		

Table E12: % Shut-Offs Assessment Results by Water System SAFER Program Status

Figure E3: Distribution of % Shut-Off, Excluding 54 systems with Shut-Offs above 50% (n=2,774)



RESOLUTION NO. 2022-XX

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT FREEZING TREATED WATER AND IRRIGATION RATES

WHEREAS, Georgetown Divide Public Utility District ("District") provides irrigation and treated water services to residents and businesses of the District; and

WHEREAS, in December 2017, the District completed a roughly 15-month process to update its treated and irrigation water rates; and

WHEREAS, that process resulted in a Water Financial Analysis (aka Water Rate Study), dated October 24th, 2017, prepared by Rural Community Assistance Corporation (RCAC) that established various proposed rates; and

WHEREAS, on December 12th, 2017, pursuant to Proposition 218 (Cal. Const., Art. XIIID, Sec. 6) the District Board heard and considered all oral testimony, written materials, and written protests concerning the rate increase; verified and counted the protests and determined that the District may proceed with the proposed water rates; and

WHEREAS, the Board then adopted Resolution 2017-30 Adopting New Rates for Treated Water and Irrigation Water Services; and

WHEREAS, those rates were set to increase effective with the January/February 2019 billing period; and

WHEREAS, at the January 8th, 2019 meeting the Board acted by motion to "temporarily freeze the rate increases for no more than 12 months;" and

WHEREAS, at the February 12th, 2019 meeting the Board adopted Resolution 2019-14 which held the 2019 water rates at the 2018 water rates, and re-affirmed that water rates would increase effective with the January/February billing period each following year (2020, 2021, 2022); and

WHEREAS, at the February 11th, 2020 Board meeting the Board adopted Resolution 2020-08 to temporarily freeze the treated water rates until July 1, 2020 and freeze the irrigation rates for the remainder of 2020; and

WHEREAS, at the January 28th, 2021, Special Board Meeting, the Board adopted Resolution 2021-03 maintaining the water rates until the end of the Fiscal Year 2021 (December 31, 2021); and

WHEREAS, at the December 14th, 2021 Regular Board Meeting the Board adopted Resolution 2021-56 freezing the rates until June 30th, 2022.

WHEREAS, the Board has considered the option of maintaining the freeze at the current level.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT HEREBY RESOLVES THAT THE RATES FOR TREATED AND IRRIGATION WATER ARE MAINTAINED AT THE CURRENT RATE UNTIL (INSERT DATE) AS OUTLINED INTHE FOLLOWING CHARTS: AYES:

NOES:

ABSENT/ABSTAIN: NONE

Michael Saunders, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and Ex officioSecretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of <u>Resolution 2022-XX</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this 14th day of June 2022.

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

REPORT TO THE BOARD OF DIRECTORS BOARD MEETING OF JUNE 14, 2022 AGENDA ITEM NO. 9.D.



AGENDA SECTION:	NEW BUSINESS
SUBJECT:	ANNUAL REVIEW OF CAPITAL FACILITY CHARGES AND METER INSTALLATION FEES
PREPARED BY:	Adam Brown, Operations Manager
APPROVED BY:	Adam Coyan, General Manager

BACKGROUND

On April 7, 2007, the Board of Directors adopted Ordinance 2007-01, *An Ordinance Repealing Ordinance No. 94-03, Amending Ordinance No. 94-04, and Establishing Capital Facility Fee and Capacity Charges for Connections to the District's Water System.* Ordinance 2007-001 is included as Attachment 1 along with *Georgetown Divide Public Utility District Capital Facility Charge Study,* dated March 2007, which established the methodology behind capital facility charges (CFC). The study, which analyzed the District's historical practices as well as standards within the industry, recommended principles based on state law to ensure implementation of the *growth-pays-for-growth* principle.

DISCUSSION

Article 9 of the Ordinance provides for an annual reassessment of the charges by the amount of the construction cost index, as established in the 20-city Engineering News Record Construction Cost Index (ENRCCI) at discretion of the Board. The charges were last updated in fiscal year 12/13 and the ENRCCI for the period between FY 12/13 and FY 22/23 is calculated at an increase of 27% to cover the necessary costs. The following table details the current fees and what fees could be established utilizing ENRCCI.

Capital Facility Charge

Meter Size	FY12/13	FY22/23
5/8 – 3/4 - inch	\$9,200	\$11,684
1 – inch	\$22,575	\$28,670
1 ½ - inch	\$45,148	\$57,337
2 - inch	\$72,239	\$91,743

A Resolution associated with proposed CFC increases is included as Attachment 2.

Article 7 of Ordinance 07-01 established that the cost for new meters and installations shall be assessed at the actual cost to the District. At the time this report, new meter costs to the District are currently at the following and are subject to change:

Meter Cost

5/8 — inch	\$255
3/4 — inch	\$270
1 – inch	\$305
1-1/2 – inch	\$695
2 – inch	\$835
3 – inch	\$2,715
4 – inch	\$3,455

Notes: Meter cost does not include ancillary supplies (i.e., valves, fittings, adaptors, rental equipment, specialized contractor cost) associated with meter installation that are charged at current cost after installation.

Installation time and material cost can vary per location; however, some portions of work order fees should be standardized such as hourly labor rates and equipment cost. Equipment rates were established utilizing the California State Transportation Agency Department of Transportation Division of Construction, *Labor Surcharge and Equipment Rental Rates*, dated April 1, 2022, and California Department of Transportation – Equipment Rental Rate Approximation¹. Labor rates were established utilizing District labor costs.

Category	Current	Proposed	
Labor (per hour)			
Office Management	\$65	\$65	
Field Operator	\$45	\$45	
Office Staff	\$40	\$40	
Equipment (per hour)			
Dump Truck	\$12	\$37.19	
Flat Bed	\$11	\$28.65	
Service Truck	\$11	\$28.65	
Standard Pickup	NE	\$25.30	
Ditch Witch	\$25	\$33.78	
Excavator	\$25	\$45.18	
Loader	NE	\$95.00	
Air Compressor	\$4	\$20.80	

Labor and Equipment Cost

Notes: NE - Not Established

¹ https://dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge

A Resolution adjusting meter installation fees is included as Attachment 3.

FISCAL IMPACT

A total of 6 meters were installed in 2021 and 14 during the first 5-months of 2022. New meter connections rates vary depending on development within the District, but on average 15 new installations would result in an approximate increase if \$37,000 annually deposited into capital facilities fund.

CEQA ASSESSMENT

This is not a CEQA Project.

RECOMMENDED ACTION

Staff recommends the Board of Directors of the District approve resolution 2022-XX and 2022-XX.

ATTACHMENTS

Attachment 1 – Ordinance 2007-01 Attachment 2 – Resolution 2022-XX Attachment 3 – Resolution 2022-XX

ORDINANCE NO. 07-01

AN ORDINANCE REPEALING ORDINANCE NO. 94-03, AMENDING ORDINANCE NO. 94-04, AND ESTABLISHING CAPITAL FACILITY FEES AND CAPACITY CHARGES FOR CONNECTIONS TO THE DISTRICT'S WATER SYSTEM

BE IT ENACTED by the Board of Directors of the Georgetown Divide Public Utility District ("District"), El Dorado County, State of California, as follows:

ARTICLE 1. Recitals

A. Pursuant to Government Code Section 66013 et seq. the governing board of a district is authorized to levy a fee or capacity charge for any new connection to the district's water system to defray the cost of the public facilities necessary to serve the new connection.

B. New connections to the District's water system will impact the system and will require the installation of new facilities, upgrades of existing facilities and additional water supplies for the District.

C. By Ordinance 94-03 the District set the Water Development Charge at \$2,000.00 and by Ordinance 94-04 the District set the Treatment Plant Charge at \$955.00, the Pipeline Charge at \$595.00, the Storage Charge at \$700.00, the Service Connection Charge at \$650.00 and the Meter Installation Charge at \$100.00, for a total cost of \$5,000.00.

D. The District completed a Capital Facility Charge Study ("Study") prepared by Stantec Engineering, entitled, "Georgetown Divide Public Utility District Capital Facility Charge Study", to evaluate the fees and charges required to cover the cost of existing facilities and the facility expansions and upgrades necessary to address the increased demands on the system as a result of serving the new development. In addition, new connections to the District's water system will require the District to fund studies to obtain additional water supplies to serve the residents of the District.

E. The District has collected, examined, and analyzed written evidence; and has heard and considered evidence and testimony at a duly noticed public hearing regarding the increased capital facility charges to be levied on new connections to the District's treated water system.

ARTICLE 2. Repeal of Ordinance No. 94-03 and Amendment of Ordinance No.

94-04:

Upon the effective date of this ordinance, Ordinance No. 94-03 is repealed. Article 15 of Ordinance No. 94-04, except as described in Article 8 of this Ordinance, and Articles 16 and 17 of Ordinance No. 94-04 are also repealed.
ARTICLE 3. Procedure:

The Board hereby finds that prior to the adoption of this Ordinance, a public hearing was held, at which oral and written presentations were made, as part of the Board's regularly scheduled March, 2007 meeting. The public hearing was continued to April 10, 2007. Pursuant to Government Code Section 66016 notice of the time and place of the meeting, including a general explanation of the matter to be considered, and a statement that the data required by this section is available, was mailed at least 14 days prior to the meeting to any interested party who filed a written request with the District for mailed notice of the meeting on new or increased fees or service charges. In addition, notice of the time and place of the meeting, including a general explanation of the matter to be considered, has been published twice in a newspaper of general circulation. The District has made available to the public at least 10 days prior to the meeting, data including the amount of the cost, or estimated cost, required to provide the service for which the fee or service charge is to be adjusted pursuant to the Ordinance, and the revenue sources anticipated to provide this service. By way of such public meeting, the Board received oral and written presentations by the District based upon the District's Study, along with other materials, which formed the basis for the action taken pursuant to this Ordinance.

ARTICLE 4. Findings:

The Board has reviewed the Study as it relates to proposed and potential development, the resulting need for facilities, the cost thereof, and the available sources of revenue including the increase in fees provided by the Ordinance, and based thereon and upon all other information and written and oral presentations, the Board hereby approves and adopts the Study, attached hereto as Exhibit "A" and incorporated herein by reference, and adopts the findings and conclusions in Exhibit "A" as its own and finds each of the following:

(a) Purpose of the Charges

The purpose of the fee is to fund improvements to the District's water system as identified in the Study and to provide funds for studies necessary to secure additional water supplies for the District.

(b) Use of Charges

The fees proposed in the Study and implemented pursuant to this Ordinance will be used to finance the construction of facilities indicated in the Study attached as Exhibit "A" and to pay for the District's share of studies undertaken by the El Dorado County Water Agency to secure additional sources of water for the District ("new facilities" herein).

(c) Relationship between Use of Charges and Type of Development

There is a reasonable relationship between the fees proposed herein and the development project on which the fee will be imposed because the fee will be imposed exclusively on projects that require District services and apply to connect to the District's water system. The new users will impact the District's system as set forth in the Study and will use a portion of the limited water capacity available within the District, thus necessitating the construction of capital facilities to serve the new development and requiring the District to seek additional sources of water to serve the new development.

(d) Relationship between Need for Facilities and Type of Project

There is a reasonable relationship between the need for the new facilities and the new development because the new facilities are necessary to serve the new development. To the extent a portion of the new facilities are necessary to serve existing customers of the District, the District will pay for such portion of the new facilities through grants, taxes, rate charges or other sources of revenue of the District.

(e) Relationship between Amount of the Charges and the Cost of Facilities

There is a reasonable relationship between the amount of the fee and the cost of the new facilities because the Study identifies that the cost of the new facilities necessary to serve the new development meets or exceeds the amount that will be raised through the collection of the fees.

(f) Fees do not Exceed the Estimated Amount Required

The fees proposed in the Study and adopted pursuant to this Ordinance do not exceed the estimated amount required to provide funding for the new facilities for which the fees are levied; and in making this finding, the District declares that it has considered the availability of revenue sources anticipated to provide such facilities.

ARTICLE 5. Connection to the District's Treated Water System

Based on the foregoing findings, the Board hereby approves, adopts, and levies a Capital Facility Connection Fee and Capacity Charge ("fee" herein) for connection to the District's treated water system in the following amount of \$8,100 for a 5/8-3/4 meter; \$20,025 for a 1 inch meter; \$40,049 for a 1 ½ inch meter; and \$64,079 for a 2 inch meter. The fee shall be paid directly to District prior to making a new connection or increasing the amount of an existing connection to the District's treated water system for which a service connection charge has not been paid or financed through an assessment district. If a parcel within an assessment district that included financing for connection charges is further subdivided, only the original parcel

shall be exempt from the connection fee.

ARTICLE 6. Connection to the District's Untreated Water System

Based on the foregoing findings, the Board hereby approves, adopts, and levies a Capital Facility Connection Fee and Capacity Charge for connection to the District's untreated water system in the amount of \$2,000. The fee shall be paid directly to District prior to making a new connection or increasing the amount of an existing connection to the District's raw water system.

ARTICLE 7. Pipeline Extensions, Meter Installations

The Capital Facility Connection Charge and Capacity Charge does not include costs associated with extending pipelines or the cost of installing meters. Charges for pipeline extensions and meter installations shall be assessed at actual cost to the District.

ARTICLE 8. Kelsey and Pilot Hill Assessment Districts

The provision in Article 15 of Ordinance 94-04 charging an additional fee of \$500 per parcel for all unassessed parcels within the Kelsey North, Kelsey South, Pilot Hill North, Pilot Hill South Assessment Districts in order to provide a Debt Service Reserve for said Assessment Districts shall remain in force and such fee shall be collected and placed in a separate reserve account for such purpose.

ARTICLE 9. Fee Adjustment and Limitations

The fees levied under Article 5 and 6 above shall be adjusted annually on July 1 of each year by the amount of the construction cost index, as established in the 20-city Engineering News Record Construction Cost Index or ENRCCI or its successor. The Board retains the discretion to annually review the amount of the construction cost index and may elect at a regularly scheduled meeting of the Board to refrain from applying all or any portion of the increase to the fee. Absent such an election, the construction cost index shall be applied to the fee for a period of five years from the effective date of this ordinance.

ARTICLE 10. Deposit of Fees

All fees and charges, along with any interest income earned thereon, shall be deposited in a separate capital facilities fund in a manner to avoid any commingling of the fees and charges with other revenues and funds of the District, and shall be expended solely for the purposes for which the fees and charges are collected, which the District hereby designates to be for the purpose of funding studies for additional water supplies, construction of the capital facility improvements identified in Tables 5, 6 and 7 of the Study and those purposes permitted by any applicable law. Fees and charges collected for the raw water system shall be expended

solely for the purpose of funding studies for additional water supplies or for the construction of the raw water system capital facility improvements identified in Tables 5, 6 and 7 of the Study.

ARTICLE 11. Accounting

Pursuant to Government Code Section 66013 the District shall account for the funds in the separate capital facilities fund annually and will make the findings required by Government Code section 66013(d).

ARTICLE 12. Additional Mitigation Methods

The policies set forth in this Ordinance are not exclusive and the District reserves the authority to undertake other additional methods to finance public facilities. In addition, the District reserves the right to negotiate connections to the District's system and to accept land, easements or other items of value in exchange for the right to connect to the District's system when such an exchange is determined to be in the best interests of the District.

ARTICLE 13. Implementation

For development projects within the District, the General Manager or his designee is authorized to issue Certificates of Compliance upon the payment of any fee levied under the authority of this Ordinance. The fees provided herein shall be collected prior to an applicant's connection to the District's treated water system. All other provisions establishing the requirements and procedures to connect to the District's system shall remain in full force and effect. The Board of Directors retains the authority to grant relief under the provisions of this ordinance upon request. Any appeal or challenge to this fee shall follow the District procedure for filing appeals.

ARTICLE 14. California Environmental Quality Act

The Board hereby finds that the increase in fees provided by this Ordinance is to obtain funds for capital projects necessary to maintain service within the District and that therefore, under Public Resources Code section 21080 (b)(8), this action is statutorily exempt from the provisions of the California Environmental Quality Act (CEQA). To the extent a particular construction project necessitates an analysis under CEQA, the analysis shall be undertaken prior to construction of the project.

ARTICLE 15. Commencement Date

Pursuant to Government Code Section 66017, the effective date of this Ordinance shall be July1, 2007, which is more than sixty (60) days following its adoption by the Board.

ARTICLE 16. Severability

If any portion, phrase or segment of this Ordinance is found by a Court of competent jurisdiction to be invalid, such finding shall not affect the validity of the remaining portions of this Ordinance. The District hereby declares its intent to adopt this Ordinance irrespective of the fact that one or more of its provisions may be declared invalid subsequent thereto.

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public, at its duly held regular meeting on April 10, 2007 by the following vote:

Ayes: Michael Cooper, Bob Diekon, Norman Krizl, Douglas Pickell and JoAnn Shepherd

Noes: None

Absent: None

GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

By:

Norm Krizl, President Board of Directors The Georgetown Divide Public Utility District

ATTEST:

By

HENRY N. WHITE, Clerk and ex officio Secretary, Board of Directors Georgetown Divide Public Utility District

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of Ordinance 2007-01 duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on the 10th day of April, 2007.

HENRY N. WHITE Secretary, Georgetown Divide Public Utility District

GDPUD/RESOLUTIONS-ORDINANCES/ Ordinance re Cap Facility Charge increase 2007

.



GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT CAPITAL FACILITY CHARGE STUDY

March 2006

Updated March 2007

Prepared for: Georgetown Divide Public Utility District PO Box 4240 Georgetown, CA 65634

Prepared by: Stantec Consulting, Inc. 2590 Venture Oaks Way Sacramento, CA 95833

Stantec CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

Executive Summary

Management of water utilities is a demanding and complicated business. In addition to meeting the service needs of customers, the GDPUD satisfies the demands of a number of other stakeholders as well. These include health, safety and environmental regulators, bankers and governmental lenders and other interested parties. To accomplish competing objectives the GDPUD has a Capital Improvement Program and Strategic Plan as well as the provisions and limitations of the California codes. Financial responsibility is a key thread in those documents.

Financial objectives for the GDPUD is to seek sufficient capital to build projects and sufficient revenue to properly manage, operate and maintain facilities. Also, the GDPUD seeks fairness and equity in allocating financial burdens among customers. Because utility assets are relatively expensive – partly because most assets are installed underground – and have long useful lives (up to fifty years or more), it is appropriate to factor growth into the calculus of cost allocation. It is often considered inappropriate to have existing customers be entirely responsible for capital costs of all future assets, especially those expansion facilities that would not be built if there were no growth. To resolve this situation, many districts take a two-pronged approach to the allocation financial costs of long-term assets among current and future customers.

First, they engage in long-term debt financings to pay for the facilities, even if there is sufficient cash on hand to fully fund the construction. This concept implements the *pay-as-you-use principle*, wherein future customers participate in future debt service when they connect to the system.

Secondly, districts historically have adopted connection fees as the process for new customers paying the cost of expanding the system to serve them. Since adoption AB 1600 the acceptable terminology to describe these fees is Capacity Facility Charges (CFCs). CFCs are assessed to new customers when they connect to the utility systems to ensure implementation of the *growth-pay-for-growth principle*. In the long run, CFCs provide sufficient funds to fully pay for the construction costs of expansion assets. In the short-run, some years will have more or less growth than other years, producing more or less CFCs revenue, and some years may have more or less than average expansion project capital requirements. Utilization of reserve funds, reliance on rate revenues from existing customers and engagement of funding (borrowing or accepting grants in aid) from external sources are approaches taken to buffer the variances associated with growth and capital requirement.

State law governs capital facility charges. California Government Code Section 66000, *et. seq.*, provides that the purpose and intended use of a proposed CFC must be identified, that there be a reasonable relationship between the use of revenues generated by the fee and the properties paying the fees and that there be a reasonable relationship between the amount of the fee and the cost of the public facility attributable to the properties paying the fees.

Stantec CAPITAL FACILITY CHARGE STUDY EXECUTIVE SUMMARY March 2006 Updated March 2007

Stantec is of the opinion that this report satisfies these requirements. In summary, the purpose and intended use of the fees is to generate revenue to pay for capital construction cost, or service debt on capital construction cost, of public water facilities. These facilities will be used to provide water service for the newly connecting accounts. Reasonable care is given in the computation of the fees to ensure that only growth-induced portion of new projects, or portions thereof, and unused capacity of existing facilities are to be funded by the charges. The charges are computed on a unit cost basis to ensure a reasonable relationship between facility cost and fee paying properties. In administering the fees, Stantec assumes that the GDPUD will comply with other aspects of the Government Code Section 66000 *et. seq.*, including that CFCs revenues will not be commingled with other revenue sources.

Generally, development/capacity fees are assessed upon connection by a property to the utility system, often in concert with issuance of building permits or occupancy certificates. Fees are determined on a constant dollar value basis. As such, fees should be adjusted periodically to coincide with increasing or decreasing costs of construction. Stantec has prepared this study assuming the GDPUD will adjust fees every year based on the *Engineering News-Record* Construction Cost Index and then revisit planning and costs bases every five years as part of the master planning update process. The CFCs recommended for the GDPUD reflect economic and legal principles for determining capacity charges and impact fees generally, and also reflects the practices of other water agencies in California.

Using the determined replacement cost and valuation for the GDPUD water system a unit cost can be calculated. This unit cost reflects the price of water obtained from this system. Unit costs for a twenty year timeframe are calculated in Table 9, Water System Capital Facility Charge located in Appendix C of this report. The recommended CFC for a new residential connection is \$8,100 (fiscal year 2007-2008). A schedule of Capital Facility Charges is shown in Table 10, Recommended Water System Capital Facility Charges in Appendix C of this report, and below.

Stanfec CAPITAL FACILITY CHARGE STUDY EXECUTIVE SUMMARY March 2006 Updated March 2007

Table 10 Revised Recommended Water System Capital Facility Charges

GDPUD Meter Size	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12
5/8 - 3/4 inch	8,100	8,300	8,500	8,800	9,100
1 inch	20,025	20,626	21,245	21,882	22,538
1 1/2 inch	40,049	41,250	42,488	43,763	45,076
2 inch	64,079	66,001	67,981	70,021	72,121

Assumes 3% increase each year & most common fee is rounded to nearest \$100 for 5/8 -3/4 inch meters. The charges will be increased annually by the 20-city Engineering News Record Construction Cost Index.

Chapter two of this report outlines the projected population growth in El Dorado County and within the GDPUD service area. This chapter summarizes recent studies of future water demand for the GDPUD. A complete residential build out analysis and assumptions are also presented in chapter two. This analysis is performed to ensure the CIP is adequate to support the anticipated growth outlined by the El Dorado General Plan and the costs of the necessary infrastructure is reflected in the CFCs.

With an understanding of projected growth in the area, chapter three details the current charges for new connections within the GDPUD and current charges for new connections within the surrounding water purveyors of El Dorado and Placer Counties.

Chapter four details the process for calculating a unit cost of water from the GDPUD system and a proportional fair CFC for new connections. This approach satisfies rational nexus criteria required by the California Government Code.

The technical appendix at the end of this report provide supporting calculations for establishing the CFCs and reference materials pertaining to CFCs.



Stantec

ß

CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

Table of Contents

ΕX	ECUTIVE	SUMMARY E.1
LIS	T OF ACR	ONYMNSiv
1.0 1.1 1.2 1.3 1.4	INTRODU GEORGE PURPOS 1.2.1 BACKGR 1.3.1 APPROA	JCTION 1.1 ETOWN DIVIDE PUBLIC UTILITY DISTRICT (GDPUD) 1.1 E 1.2 County Government Regulations 1.2 COUND 1.2 Publications Regarding Capital Facility Charges 1.3 CH 1.4
2.0 2.1	LAND US	TION AND WATER DEMAND FORECASTS
	2.1.1	Growth Trends2.1
	2.1.2	Water Demand Forecast
	2.1.3	Build Out Analysis
	2.1.4	
3.0 3.1 3.2	CURREN CURREN 3.1.1 COMPAR 3.2.1 3.2.2	T WATER SYSTEM CONNECTION FEES3.1T GDPUD CHARGES3.1Generalized Benefit for the Entire District3.2RISON OF OTHER WATER PURVEYORS3.2EI Dorado County3.2Placer County3.4
4.0	CAPITAL	FACILITY CHARGE DEVELOPMENT METHODOLOGY4.1
	4.1.1 4.1.2 4.1.3	Inventory and Replacement Cost of Current Assets
	4.1.4	Current Water System Capacity4.5
	4.1.5	Future Development and Water Demand
	4.1.6	Unit Cost for Capital Facilities
5.0	ACKNOW	VLEDGMENTS
6.0	REFERE	NCES6.1
7.0	CONTAC	TS7.1

Stantec

CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

LIST OF TABLES

Table 1: Comparison of 1990 and 2000 Population in El Dorado County

Table 2: Summary of Growth Projections for Georgetown Divide Public Utility District

Table 3: Vacant, Non-Customer Parcels at General Plan Build Out

Table 4: Summary of Regional Connection Fees

Appendix C: Water System Replacement Costs

Table C1: Water System Replacement Cost Data

Table C2: Storage Tank and Pipeline Unit Cost Estimation

Table 5: Water System Structures Replacement Cost

Table 6: Water System Pipelines Replacement Cost

Table 7: Water System Capital Improvement Costs and Reliability Measure Recommendations (2005 Dollars)

Table 8: Water System Capital Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars)

Table 9: Water System Capital Facility Charge

Table 10: Recommended Water System Capital Facility Charges

1

.

<u>1</u>

а С

Stantec

CAPITAL FACILITY CHARGE STUDY

March 2006 Updated March 2007

LIST OF FIGURES (FOLLOWS THE PAGE)

Figure 1.	Vicinity Map	1,1
Figure 2.	Site Map	1.1
Figure 3.	GDPUD Vacant and Developed Lands	2.4
Figure 4.	GDPUD General Plan Land Use Designations	2.7
Figure 5.	GDPUD Land Use Designations for Non Customer Vacant Parcels	2.8

Stantec

CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

LIST OF ACRONYMS

APN	Assessor's Parcel Number
CFC	Capital Facility Charge
CIP	Capital Improvement Project
EIR	Environmental Impact Report
GDPUD	Georgetown Divide Public Utility District
GIS	Geographic Information Systems
GPD	Gallons Per Day
MGD	Million Gallons Per Day
SACOG	Sacramento Area Council of Governments
WTP	Water Treatment Plant

Stantec CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

1.0 Introduction

This report summarizes the development methodology and justification of the recommended Capital Facility Charges (CFCs) for the Georgetown Divide Public Utility District (GDPUD). CFCs are defined by the California Government Code Section 66000 et sequential as "charges for facilities in existence at the time the charge is imposed or charges for new facilities to be constructed in the future that are of benefit to the person or property being charged". These charges are intended to recover a portion of the District's Capital Improvement Program (CIP) cost, and water rate payer's prior investment in capital facilities that support land development through water system expansion.

This study has been prepared to meet the regulatory requirements found in Government Code Section 66000 et sequential regarding the establishment of capacity charges also known as water connection fees. The term connection fee is no longer appropriate terminology due to the adoption of AB 1600. This bill renamed this fee to capital facility charges and specified that this fee must be used for capital expansions, and cannot be used for operating expenses. It is necessary for every water purveyor to evaluate CFCs as new development increases and the water system requires expansion. A CFC should reimburse the GDPUD for a new customer's benefit of existing capacity in the GDPUD's water system.

1.1 GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT (GDPUD)

The GDPUD is situated between the Middle and South Forks of the American River in the foothills of the Sierra Nevada Mountains. This region is best known for its influential role in the California Gold Rush, and for the past 150 years, life on the Divide has been greatly influenced by the people, places, and events of the Gold Rush and the subsequent discovery of "green gold", the Divide's huge tracts of timber. Figure 1 is a vicinity map depicting the location of the GDPUD within the region.

Founded in 1946, the GDPUD is a public utility district operating under the State of California Public Utility Code and Special District Codes & Procedures. The GDPUD comprises 75,000 acres along the northerly boundary of El Dorado County. As of 2005, the GDPUD provided service to approximately 3,400 water connections and serviced 1,100 wastewater disposal accounts. The GDPUD maintains over 137 miles of treated water pipelines, two water treatment plants, numerous water storage tanks, reservoirs, and miles of open canals (See Figure 2 Site Map).

Today, a number of small communities (most dating back to the Gold Rush) are scattered throughout the GDPUD, including Georgetown, Cool, Garden Valley, Kelsey, Greenwood, and Pilot Hill. Georgetown is named after George Phipps, who led a company of sailors to the area during the nineteenth century. Georgetown was the site of a gold camp and trading center for approximately 10,000 miners during the gold rush. It also was the site for Japanese settlers to form and establish the Wakamatsu Colony in 1868 to operate a tea and silk plantation. This



Table 10 Revised Recommended Water System Capital Facility Charges

GDPUD Meter Size	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12
5/8 - 3/4 inch	8,100	8,300	8,500	8,800	9,100
1 inch	20,025	20,626	21,245	21,882	22,538
1 1/2 inch	40,049	41,250	42,488	43,763	45,076
2 inch	64,079	66.001	67 981	70 021	72,121

Assumes 3% increase each year & most common fee is rounded to nearest \$100 for 5/8 -3/4 inch meters. The charges will be increased annually by the 20-city Engineering News Record Construction Cost Index.

Table 9 Water System Capital Facility Charge

.

ten	FY 04-05	F	Y 05-06	FY 08-07	FY 07-06	EV 08.09	EV 00 10	EV 40.44	m												
Water System Replacement Cost						1100-00	FT 05-10	PT 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	EV 20-24	EV 24 22	EX 00.00	
Walton Lake WTP (Available Capacity)	\$ 1,500,000	s	1.545.000 \$	1.591.350	1 899 091	5 1 699 263 6	4 798 044 6	4 704 070 0		_							1113-20	FT 20-21	FT 21-22	FY 22-23	FY 23-24
Auburn Lake Traits WTP (Available Capacity)	\$ 300.000	i i i	309,000 \$	248 270	4 1,030,001	* 1,000,203 1	1,/36,911 \$	1,791,078 \$	1,844,811	1,900,155	\$ 1,957,160	2,015,875	\$ 2.076.351	2.138.641 \$	2 202 801 1	2 268 885 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
Greenwood Lake WTP (Available Canacity)	• ••••••••		000,000 4	010,270												1,200,000 4	2,00,001 1	2,407,000 à	2,4/9,2/1 \$	2,553,650 \$	2,630,259
Structures	< 4 808 795		E 049 499 P		3,400,00/	a 3,570,667 a	3,677,787 \$	3,788,120 \$	3,901,764 1	4,018,817	\$ 4,139,381 5	4.263.563	\$ 4.391 470	4 523 214 6	4 461 010 1	4 708 477 6	4 0 40 000 4				
Pinalinas	\$ 4,050,230	1.	0,040,1 <u>2</u> 0 \$	5,194,410	\$ 6,350,249	\$ 5,510,768 \$	5,676,079 \$	5,646,361 \$	6,021,752	6,202,405	\$ 6,388,477	6.680 131	\$ 8777 635	4,020,214 6	7400.087 6	4,100,007 9	4,842,030	5,090,917 \$	5,243,644 \$	5,400,954 \$	5,562,982
Total Meters Suntan	\$ 37,120,401	\$ 3	8,234,075 \$	39,381,097	\$ 40,562,530	\$ 41,779,408 \$	43,032,788 \$	44,323,772 \$	45,653,485	47.023.089	\$ 48,433,782	49 866 795	5 51 282 800	6 60,000,001 4	(,1#U,20/ 4	7,405,985 \$	7,828,175	7,857,021 \$	8,092,731 \$	8,335,513 \$	8,585,579
I olar Prater System	\$ 43,876,695	54	5,131,197 💲	46,485,133	\$ 51,018,536	\$ 62,649,092 \$	54,125,565 \$	55,749,332 \$	57.421.811	59.144.466	\$ 60.918.800	R2 748 964	¢ 01,303,203 .	02,024,001 3	04,012,048 3	56,148,028 \$	57,832,469	59,567,443 \$	61,354,466 \$	83,195,100 \$	65,090,953
1											+	01,740,304	¢ 04,020,700 .	00,007,077	00,004,040 3	70,821,585 \$	72,740,233	74,922,440 \$	77,170,113 \$	79,485,216 \$	81,869,773
Less Contributions																					
Federal Grant	\$ 9,750,000	\$	9,750,000 \$	9,750,000	\$ 9,750,000	\$ 9,750,000 \$	9,750,000 \$	9,750,000 \$	9 750 000	9 750 000	E 0.750.000 /	0.750.000									
Total Contributions	\$ 9,750,000	5	9,750,000 \$	9,750,000	\$ 9,750,000	\$ 9,750,000 \$	9,750,000 \$	9,750,000 \$	9 750 000	E 8 750,000	\$ 0,730,000 4 \$ 0,750,000 4	9,750,000 1	a 9,750,000 s	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000
								-,, +	a,100,000 q	• •,100,000	• 0 ,730,000 a	a a,750,000 a	s 9,750,000 :	\$ 9,750,000 \$	9,750,000	9,750,000 \$	9,750,000	9,750,000 \$	9,750,000 \$	9,750,000 \$	9,750,000
Water System Valuation	\$ 34,066,696	\$ 3	5,381,197 \$	36,735,133	\$ 41,268,538	\$ 42,799,092 \$	44.375.585 S	45 999 332 \$	47 871 814 4	40 504 400											
									47,071,011 4		a o1,100,000 1	02'888'964 1	54,878,755	56,817,617 \$	58,814,646 \$	60,871,585 \$	62,990,233 \$	65,172,440 \$	67,420,113 \$	69,735,218 \$	72.1
WTP Capacity (Max Day) ⁶																					
Design Capacity (gal)			4.600.000	4,600,000	5 300 000	5 300 000	5 300 000	5 200 000	E 100 000	5 000 000											
					-10,000	0,000,000	5,500,000	0,300,000	8,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5 300
Peak Day Unit Cost (\$ per Gallon)		\$	7.6916 \$	7,9859	\$ 7 7865	\$ 8.0763 \$	8 9777 8													-,,	
		•			•	+ n,et co 4	0.3121 #	0.0181 \$	0.8941 3	9,3197	\$ 8.8545 \$	9.9993 \$	10.3545	10.7203 \$	11.0971 \$	11.4852 \$	11,8849 \$	12.2967 \$	12,7208 \$	13,1576 \$	13 6075
Peak Day Single Family Use ¹																					14,6610
Average Daily Single Family Dweiling Use (and)			357	267	735	022	0.07	A													
Peak Factor			2.81	2.81	30/	30/	357	357	357	357	357	357	367	357	357	367	357	357	357	357	257
Peak Day Single Family Use (and)			1003	1009	1003	2.01	2.61	2,81	2.61	2.61	2.81	2.81	2.81	2.61	2.81	2.81	2.61	2.81	2.81	2.81	2 84
(d)			1000	1003	1003	1004	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003
Equivalent Single Femily Dwelling Cheme																					1003
Calculated		•	7 716 8	8.010	£ 7.640	¢ 8,000 ¢															
Recommended [®]			7,715 0	0,010	4 7,010	a 0,100 a	8,398 \$	8,705 \$	9,022 \$	9,348	9,683 \$	10,029 \$	10,386 1	10,752 \$	11,130 \$	11,520 \$	11.921 \$	12.334 \$	12 759 \$	13 197 \$	13 848
		*	1,/10 \$	8,010	ə 8,100	\$ 8,100 \$	8,398 \$	8,705 \$	9,022 \$	9,348 1	i 9,683 \$	10,029 \$	10,386 1	10.752 \$	11,130 \$	11.520 \$	11 921 \$	12 334 6	12 750 6	10,107 .	40.040
Escility Reserve Chames																			12,100 0	13,137 4	13,040
Tacinty reserve charges	E autoria and																				
Mater also	Equivalency																				
Cite Landa	Factor																				
3/64/107	1.0	5	7,715 \$	8,010	\$ 8,100	\$ 8,100 \$	8,398 \$	8,705 \$	9,022 \$	9,348 \$	9.683 \$	10.029 \$	10.386 \$	10 762 \$	11 130 8	11 520 8	44.004 8				
3/4-inch	1.0	ş	7,715 \$	8,010	\$ 8,100	\$ 6,100 \$	8,398 \$	8,705 \$	9,022 \$	9,348 \$	9.683 \$	10.029 \$	10 386 \$	10 752 8	11,130 \$	11,020 \$	11,221 3	12,334 à	12,/59 \$	13,197 \$	13,648
Ministra de la companya de la	2.5	5	19,287 \$	20,025	\$ 20,250	\$ 20,249 \$	20,995 \$	21,763 \$	22,554 \$	23,369 \$	24,209 \$	25.073 \$	25.964	78 881 8	27 828 4	28 700 4	11,821 \$	12,334 \$	12,759 \$	13,197 \$	13,648
1 1/2-mon	5.0	\$	38,573 \$	40,049	\$ 40,500	\$ 40,498 \$	41,989 \$	43,526 \$	45,108 \$	46,738 \$	48417 \$	50 147 \$	61 028 8	53 763 8	EE 250 0	20,/58 \$	28,802 \$	30,834 \$	31,897 \$	32,993 \$	34,121
2-man	8.0	\$	61,717 \$	64,079	\$ 64,600	\$ 64,795 \$	67,183 \$	69,641 \$	72,173 S	74,781 \$	77.468 \$	80 234	89 084 6	68.020 P	90,002 \$	07,008 \$	58,803 \$	51,008 \$	63,795 \$	65,985 \$	68,242
3-Inch	16.0	\$	123,434 \$	128,158	\$ 129,600	\$ 129,592 \$	134,365 \$	139,283 \$	144,347 \$	149 563 \$	154.995 8	160,460 8	100,004 4	470,020 \$	09,043 \$	92,157 \$	95,385 \$	98,669 \$	102,072 \$	105,576 \$	109,187
4-Inch	25.0	\$	192,866 \$	200,246	\$ 202,500	\$ 202,488 \$	209,947 \$	217.629 \$	225,542 \$	233 692 6	242.088 €	760,702 8	200,108 8	1/2,039 \$	1/0,000 \$	164,315 \$	190,730 \$	197,337 \$	204,143 \$	211,153 \$	218,373
6-inch	50.0	\$	385,732 \$	400,493	\$ 405,000	\$ 404.976 S	419,893 S	435.258 \$	451.083 \$	487 383 6	484 173 6	200,1.00 0	209,038 \$	208,812 \$	278,260 \$	267,992 \$	298,015 \$	308,339 \$	318,973 \$	329,927 \$	341,208
8-Inch	90.0	\$	694,318 \$	720,887	\$ 729,000	\$ 728.957 \$	755 808 \$	783 464 5	811 950 \$	841 200 8	404,173 \$	001,400 \$	519,277 \$	537,823 \$	556,520 \$	575,983 \$	596,030 \$	616,679 \$	637,947 \$	659,853 \$	682,416
10-Inch	145.0	\$ 1	118,623 \$	1.161.429	\$ 1,174,500	\$ 1.174.431 S	1 217 891 \$	1 282 248 5	1 308 544 8	4 955 449	0/1,011 \$	902,638 \$	934,399 \$	967,722 \$	1,001,735 \$	1,036,769 \$	1,072,854 \$	1,110,022 \$	1,148,304 \$	1,187,735 \$	1,228,349
12-inch	215.0	\$ 1	.656,647 \$	1,722,119	\$ 1,741,500	\$ 1.741.398 S	1.805.541 \$	1 871 609 4	1 939 858 *	2 000 740	0.004,103 \$	1,404,200 \$	1,005,904 \$	1,559,108 \$	1,613,907 \$	1,670,351 \$	1,728,468 \$	1,788,369 \$	1,850,046 \$	1,913,574 \$	1,979,007
Residential									1,000,000 #	2,000,148 \$	2,001,843 \$	2,196,302 \$	2,232,892 \$	2,311,780 \$	2,393,035 \$	2,476,727 \$	2,562,930 \$	2,651,719 \$	2,743,172 \$	2,837,368 \$	2,934,390
Single Family		\$	7.715 \$	6.010	\$ 8 100	8 8100 S	8 908 8	8 705 . *	0.000												
Duplex		ŝ	7.715 \$	6,010	\$ 8100	8 8100 8	0,000 Q	0,/03 \$	3,022 3	9,348 \$	9,683 \$	10,029 \$	10,386 \$	10,752 \$	11,130 \$	11,620 \$	11,921 \$	12,334 \$	12.759 \$	13,197 \$	13.646
Multiple Family (per upit) ²		ě	7745 8	8,010	¢ 0,100 .	- 0,100 a	u,386 \$	a,/ub \$	9,022 \$	8,348 \$	9,683 \$	10,029 \$	10,386 \$	10,752 \$	11,130 \$	11,520 \$	11,921 \$	12.334 \$	12,759 \$	13.197 \$	13 648
and the second second		-	1110 \$	0,010	e 8,100 ;	, 6,100 Ş	a,396 \$	8,705 \$	9,022 \$	B,348 \$	8,683 \$	10,029 \$	10,385 \$	10,752 \$	11,130 \$	11.520 \$	11.021 \$	12.334 \$	12 759 \$	13 107 6	11 648
Annual Inflation Date ⁴															•96 · ·	+				10,107 a	13,040
			3.0%	3,0%	3.0%	3.0%	3,0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	2.0%		6 OV		
														w.u /u	2.070	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

101

Annuer massion hase 3,0% 3. Notes: 1. The Feak Day Single Family Use data were determined using Smail Acreage (< 1 acre) data. 2. An "equivalency factor" is a unities value that expresses the capacity of water meter in terms of rated maximum capacity (in galona per minute) of a standard matter. For example, using the rated maximum flow rate capacity for a 3/4-inch meter as the standard, a single 4-inch meter is equivalent to about 2 and a hair, 3/4-inch meter as the standard, a single 4-inch meter is equivalent to about 2 and a hair, 3/4-inch meter as the standard, a single 4-inch meter is equivalent to about 2 and a hair, 3/4-inch meter as disclone per day with a peak day usage of 888 galona per day. As shown in Table 10, the charge for a new Readential Single-Eamily utils equivalent per table, As shown in Table 10, the charge for a new Readential Single-Eamily utils equivalent per table, As shown in Table 10, the charge 60-60, 50-60, and 06-07 Is based on the combined design capacity for the facel years 04-05, 05-06, and 06-07 Is based on the combined design capacity for the facel years 04-05, 05-06, and 06-07 Is based on the combined design capacity for the facel water Later Mathon Lake WTPE. The maximum day water treatment plant capacity for the facel years 04-05, 05-06, and 06-07 Is based on the combined design capacity for the facel years the equivalent cast per dwelling unit to be skewed to a much lower cost than actually axista. The charge should therefore reflect the higher cost applicable the next faced year.

V:%2040'active184025003'gdpud_ceptel_fectity_charge_staty/weier_sylam_replacement_covia_modified.ale

Water System Capitol Improvement Costs and Reliability Measure.

Item		FY 17		FY 18		FY 19		FY 20		EY 21		EV 22		EV 12		5/ 24
Twin Pines Siphon to Black Oaks Siphon							-			1141		FT 22		FT 23	_	FY 24
Bleck Caks Siphon to Dukes Wastegate			2000	1.20	HEE	CT	Elsa La		-	Constanting of the second	AP NOW		1207	14-12-12-12	1821	ST. S. ST. ST. ST. ST. ST. ST. ST. ST. S
Dukes Wastegate to State Hwy 193								an ar season and a season of the	ant wante	and some and	N 672 884	231 V25 All + C 7 - 1	2210-1	ION IN A DIONAL	of States	C. C
State Hwy 193 to Chicken Flat Wastegate	1945	Lat Yay	and the	and the second	12	"这些"	1	Carlos Star	-1-21	State States	See Arres	A CONTRACTOR	Contraction of	A CONTRACT	141481	
Mellows Wastegate to Kelsey Flume									100,005		ACHINGS .	ALCOHOLD IN THE		1140 X 4783	*	August Electric (e
Kelsey Fluthe Siphon to Stork Westegate	5	118,126	1		- 200		A COLOR	100 A 100 A	RATE	A CAR PARTY	81-07		China and	The second s	the second	A STATISTICS OF TAXAB
Stork Wastegate to Kelsey Reservoir			0.000						and the fi	44 To 10	CALM N	an early of hand California	S	44 167	MINU	test another and
Overall, Keisey Ditch	120	-0.00	STAL	1.4		Mr. Human	1		116	Margaret Margaret		N. L. MARKAN		States of	1.07	
Spanish Dry Diggins Ditch							****		Protocolina (S RG AN	and other the state	Accession	Second History Contractor
SDD Flume to End																
Taylor Mine Ditch																
aylor Mine Outlet to Shadle Reservoir																
Other																
Overali, GDPUD	a substantiation of the		-	Nucley and an out of the local state												
TOVERAL GOPUD	ş	205,595	\$	218,380							-	L. Contraction	1		12	
Total Second Priority Reliability Measure Recommendations	\$	495.778	\$	661.061	s	502,797	s	705.630	\$	252 742	•	783 184	e	270 262	•	448 594
					*	,	*	,	•	20211-44	•	100,104	Ψ	313,202		410,321
Total	\$	495,778	\$	661,061	\$	5,711,082	\$	705,630	\$	252,742	\$	783,184	\$	379,262	\$	6,071,649
Annual Inflation Rate ¹		3.0%		3.0%		3.0%		3.0%		3.0%		3.0%		3.0%		3.0%
												0.070		0.0 /0		5.076

....

Notes: 1. Costs in each year are adjusted based on the cumulative annual inf September 2005 20-City ENRCCI is 3.0% per year.

.

 $V: \label{eq:label_star} V: \label{eq:label_star} V: \label{eq:label_star} Start a label{eq:label_start} V: \label{eq:label_start} Start a label{eq:label_start} V: \label{eq:label_start} Start a label{eq:label_start} V: \label{eq:label_start} Start a label{eq:label_start} Start a label{eq:label_start} V: \label{eq:label_start} Start a label{eq:label_start} Start a label{eq:label_start} V: \label{eq:label_start} Start a label{eq:label_start} Start a label_start a label_start a lab$

Table 8 Water System Capitol Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars)

Item	FY ()5-24	FY 05		FY 06	FY 07		FY 08		FY 09	FY	10	EV 11		EV 12	EV 4				_	-		n (d
Twin Pines Siphon to Black Oaks Siphon	\$	43,968										5	43.968			FI	3	FT	14		-1 15		- Y 16
Black Oaks Siphon to Dukes Wastegate	\$	98,274	AND STANCE		and the second	STATE CONTRACTOR	STO A	C. M. S. M.	Section 1	Service Services	EAL (4) 12/4	MELEN COLUMNS	40,000	Webalm Town	The same of	Marca W. Filling	2001000-000		00.074	a state of the	- TAB BUT IN		
Dukes Wastegate to State Hwy 193	\$ 1	111,570		ACCOUNT OF LOW ODD IN		A MARTIN AND A MARTIN AND A MARTIN	and a second of	COMPANY AND A REPORT OF	0.71920	Manager and	\$ 1	11 570		(2+\=)=-	Million Control of Con	ar lotte state be	SN: SACIE		30,2/4	100	alla sa	1.14	and the second
State Hwy 193 to Chicken Flat Wastegate	\$ 2	38,830			Martin 27	\$ 238,830	1	1997年1月1日	192.01		CONSTRAINT	AND THE REAL	Contraction of the	Contraction of	The second states	-1.2		- AND		1	Converse and the	12/12/10	Total Comment
Mellows Wastegate to Kelsey Flume	\$	11,247				a second and the second se	and the second		and the second	AND DESCRIPTION OF THE	CARD IN CALLER	Contraction of the	101 - 14 ALC 14 20 20 20	000020020		SPAN AN	STRACTOR OF	1. Walter and	1.000	C	11 247	ANDIA	· · · · · · · · ·
Kelsey Fume Siphon to Stork Wastegate	\$ 1	18,126	CALL NOT	ALL ALL MADE	Contraction of the second	and the second second	EST.	RADA ST.	130	The second	MAR CROWN	MAL COMPANYS	Contraction and	State State	Contraction of the second	170/05/203	No.			NO.	11,247	-	¥
Stork Weistegate to Kelsey Reservoir	\$	44,167						AC 2000 000 000 000 000 000 000 000 000	00082718779968	NOT THE REAL PROPERTY AND	CHINA MAAN	and a state of the		000000000			ALL STA	2012	and the second second second	17. A	Port State State	ann 120	· · · · · · · · · ·
Overall, Kelsey Ditch	\$ 1	85,326	Sec. 1	5	185.328	A BUNKEY BY		and a fam.	100 722		The Link To	SHOWING TIM	NO CONTRACT	Senter H	CONVER 3	TANK PARTY	19 × *	10.40	TWATEN	NONE	SWIGHT ST	SINE	SNG MAD
Spanish Dry Diggins Ditch					······	and the second se	-		oralisatio anno				STREET,	WALLSON TO A	and the lot of the second			in. Anto		m:	n. 9 mante	Alleron In	
SDD Flume to End	\$	38,496	\$ 38,4	96																			
Taylor Mine Ditch																							
Taylor Mine Outlet to Shadle Reservoir	\$	41,152					\$	41,152															
Other									S#														
Overall, GDPUD	\$	41,844	\$ 41,8	44					Wie														
Cverzil, GDPUD	\$ 4	23,875					A A STORE		-			9. Y		100									
Total Second Priority Reliability Measure Recommendations	\$ 9,0	86,170	\$ 543,2	99 \$	325,339	\$ 704,441	\$	429,284	\$	219,871	\$ 41	15,651 \$	441,110	\$	485,854	\$ 32	8,689	\$ 2	99,408	\$	271,189	\$	423,059
Total	\$ 43,4	16,423	\$ 3,098,7	29 \$ 4	4,792,789	\$ 4,402,229	\$	2,387,669	\$ (6,167,527	\$ 41	15,651 \$	441,110	\$	485,854	\$ 32	8,689	\$ 5,1	41,539	\$	271,189	\$	423,059
Annual Inflation Data1				~~										1	· · ·								
Annual Initiation Rate			3.	0%	3.0%	3.0%	•	3.0%		3.0%		3.0%	3.0%		3.0%		3.0%		3.0%		3.0%		3.0%
Notes:																							

1. Costs in each year are adjusted based on the cumulative annual inflation rate. September 2005 20-City ENRCCI is 3.0% per year.

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xis

Table 8 Water System Capitol Improvement Costs and Reliability Measure

Item	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Chrysler Cir. & Roller Coaster Replacement		¢						\$ 1,029,483
Subtotal Tatal Brights Bellebilits Manager Basermandations		\$	5,208,285					\$ 5,653,128
Second Priority Reliability Measure Recommendations		•	5,208,285				:	\$ 5,653,128
Ditch System								
Up-Country Ditch								
Bacon Creek Pipeline								
Structure #1 to Structure #2	1. S.	A state and				and the states	A DE ANGLE OF	A AX SHARE
Structure #2 to Structure #3	AND REAL PROPERTY.		-					
Structure #4 to Structure #5	· · · · · · · · · · · · · · · · · · ·	TTY - C MARTINE CO. C. C.	155 700	Constant State of State	A state of the second second	482,141		
Penetock Inter/By pass to Tree House Lane	Martin (Bearing and and	and the second	133,700	and the second second				and an other states of the states
Tree House Lane to Balderston Wastegate	and a state of the second s	256,857					and the second second	
Slind Trap Siphon Canyon Creek Conduit	11,932 :	12,290 \$	12,858 \$	13,038 \$	13,429 \$	13,832 \$	14,247	14,675
Buckeye Conduit \$	23,864	24,580 \$	25,317 \$	26,076 \$	26,859 \$	27,665 \$	28,494	\$ 29,349
Schmeder Conduit	7 756	00, <u>721</u>	8 228 €	8 475 \$	9 720 \$	8 001 €	0.264	0.520
Overgil, Up Country Ditch	1,100	1,000 \$	0,220 \$	0,475 \$	0,725 \$	0,331 \$	9,201	90 983
Main/Pilot Hill Ditch (Main Ditch #1)			and the south south and a set of the set of		and the second			
The Crails to Buffalo Hills Conduit		\$	101,268					
Buffalo Hills Conduit 5	11,693	12,044 \$	12,405 \$	12-1-01 5	13,161 5	13,558 \$	13,952	14,381
Spanish Dry Diggins Rd. to Taylor Mine Outlet		NAME OF TAXABLE		7821			1.1月1日の日本の	
Summers Wastegate to Spools Wastegate	NUCLES STREET	the second second		100.0		A Charles and A Charles		a real for the second second second
Spe ols Wastegate To Jackass Wastegate	A SHOW THE	1 Performance in the second	Share and the state					A CONTRACTOR
Jackass Wastegate to Greenwood Reservoir				\$	26,859			
Main/Pilot Hill Ditch (Main Ditch #2)	7 075	0.444 0	0.055 8	0.005 e	0.000 0	0.400	0.400	
SDD Diversion Flume to Blue Heron Falls 3	7,875	ə <u>0,111</u> ə	8,355 \$	¢ CUD,8	8,003 \$	9,129 \$	9,403	\$ 9,685
Kalser Pipeline and Kalser Siphon		North Contract of the Contract		Induct Management of Society		Weitzer ist and in these		
Kaiser Pipeline and Kaiser Siphon	9,903	5 10,201 5	10,607 \$	10,022 \$	11,146 \$	11,481 \$	11,825	12,180
Ford Siphon to ALT Water Treatment Plant		THE REAL PROPERTY AND ADDRESS OF TAXABLE	TRANSFORMED AND ADDRESS					
ALT Water Treatment Plant to Campground Wastegate		A CONTRACTOR OF THE		224,258				
Campground Wastegate to Willow Creek Wastegate	89 035					CALL CELLING		
Baldridge Wastegate to Bogus Wastegate		ACCESSION OF A				A CONTRACTOR OF THE	and the second se	Cold States of Arriver
Main/Pilot Hill Ditch (Pilot Hill Ditch)								
Dorman Wye to Knickerbocker Creek						the protocol state of the		\$ 237,729
Knickerbocker Creek to Pear Orchard Wastegate	and the second in the state	Children and Children			143,895	and the second second	month and man	the state out on
Plat Hill Ditch								
Therekel Wastegate to State Hwy 49								
State Hwy 49 to Lovejoy Wastegate	No.	50,389				11年1月1日	1 - N	
Lovejoy Wastegate To Nagle Wastegate						\$	247,902	
Capecrofi Wastegete to Wagnor Reservoir			150,637			215 792		
Wagner Reservoir to Wagner Reservoir Wastegate	and the state of the state of the	And the second second		a second second second	3	210,703		San
Bayley House Westegate to Pilot Hill Reservoir	Conversion of the Newson profile		Children Street		NAME OF TAXABLE PARTY OF TAXABLE		A TOP ROOF POINT OF A	A CONTRACTOR OF
Overal, Pilot Hill Ditch							St. P. Date The	
Kelsey Ditch			2000 00					
St. Jarnes Wastegate to Hwy 49			24 492	TRUE SOLUTION			STATISTICS OF	
State Hwy 49 to (Forrest View Dr.) Falls	Coloresta China	TRACKIL AND DESCRIPTION	11.142	And the second second	Children Charles The			
(Forrest view Dr.) Fails to Insn Kes, wastegate	UNITED STATES	CARLES OF STREET	24 10 10 10 10 10 10	393 755	CONTRACTOR OF THE	The state of the state	Charles the second science	
Bran the statement of the citize contract	· · · · · · · · · · · · · · · · · · ·	and the second se	and the second second second	A CONTRACTOR OF	the second s		A STATE OF THE STA	

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

Water System Capitol Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars)

Item	FY 05-24	EY 05	EV OR	EV 07	EV 00								
Chrysler Cir. & Roller Coaster Replacement	\$ 1.029.483	1100	FIVO	FT 0/	FY U8	FY 09	FY 10	_FY 11	FY 12	FY 13	FY 14	FY 15	FY 16
Subtotal	\$ 20.083.281												
Total Priority Reliability Measure Recommendations	\$ 24.876.717	747 780 \$	832 967 E	924 942	£ 4 407 FAA	\$ 4,379,737					\$ 4,842,131		
Second Priority Reliability Measure Recommendations			033,007 4	034,043	ə 1,125,509	\$ 5,631,174					\$ 4,842,131		
Ditch System													
Up-Country Ditch													
Bacon Creek Pipeline	\$ 287.145												
Survicione #1 to Structure #2	3 13 494	Selfer and the self	The second second		\$ 287,145		The Real Property of the State	and the second secon					
Structure #2 to Structure #3	\$ 411 743 5	411 743	Sec. St.	A STREET BORN	A CONTRACTOR OF THE PARTY OF						\$	13,496	
Structure #3 to Structure #4	5 482 747	411,745	MARKE STREET	Contractor States	NAME OF TAXABLE PARTY.	STATES AND ADDRESS OF THE OWNER							AND COMPANY OF CAREFULLY
Structure #4 to Structure #5	\$ 155,700			CHICK STORE			a status and share the	and the second second		and the second second			Contraction of the
Penatock Inlet/Bypass to Tree House Lane	\$ 182 178	CHARLES AND	and the start of	THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	The second second second second	Correction Coloreston		and the second se					•
Tree House Lane to Balderston Wastegate	\$ 256,857		State of the second state of the				HARRY PROPERTY AND	State of State State	182,178	and the state of the state	and the second		
Sand Trap Siphon Cenyon Creek Conduit	\$ 224,871 3	8 369 . 8	8 620 \$	9 978	C 445	A DE A SUB DA	Statistics and statistics			Victor in the second second			
Buckeye Conduit	\$ 449,743 \$	16.738 \$	17.240 \$	17 757	\$ 18 200	C 10 020 C	10,402 \$	9,993. \$	10,293 5	10,601	\$ 10,919 \$	11,247	\$ 11,584
Buckeye Conduit to Schroeder Conduit	\$ 60,221		ALL PROPERTY AND INCOME.	COLUMN COLUMN	The Description of the second	4 10,030 \$	19,403 \$	19,985 \$	20,585 \$	21,203	\$ 21,839 \$	22,494	\$ 23,169
Schroeder Conduit	\$ 146,166 \$	5.440 \$	5.603 \$	5 771	\$ 5.944	\$ 6122 ¢	6 206 6	C 405 C				and the second	Contraction of the
Civerall, Up Country Ditch	\$ 90,983	A TRACK	Control of the Control of the	C. C. Town Soll No. 5	Supramaria and		0,300 \$	0,495 \$	0,090 \$	6,891	\$ 7,098 \$	7,310	\$ 7,530
Main/Pilot Hill Ditch (Main Ditch #1)			Sold Michael State Provide Avenue				and the second second	A PARTY AND A P	1			States	* 205
The Crails to Buffalo Hills Conduit	\$ 101,268												
Bullalo Hills Conduit	\$ 220,374 \$	8,201 5	8.447 S	8,701	\$ 8852	\$ 9731 \$	Q SIDE IL	0 702 6	10 007 -	40 205	A 100 100 100 100		
Spanish Dry Diggins Rd. to Taylor Mine Outlet	\$ 10,919					A CONTRACTOR OF	5,300 ¢	व.गळ क	iu,uor a	10,309	5 10,701 5	11,022	11,353
Cabin Wastegate to Growlersberg Wastegate	\$ 7,823		C. C				学校会会に行った。	State of the state	A CONTRACTOR OF A CONTRACTOR		\$ 10,919 \$	A CONTRACTOR OF THE OWNER OF THE	
Summers Wastegate to Spools Wastegate	\$ 367,566		\$	367.566	and the second second second	A CARLES AND A CARLES AND A CARLES AND A		South Contract of the second		6.817. 19 A. A.	and a start of the second	CALLS A VICE	ALC: NO.
Spools Wastegete To Jackass Wastegete	\$ 242,824	A CONTRACTOR OF THE OWNER OF THE	and the second second		CELLER AND	AND INTERNATION OF AN		242 824	14			COMPANY OF THE OWNER OF THE OWNER	Constant and Constant and Constant
Jackass Wastegate to Greenwood Reservoir	\$ 26,859		**************************************			100 100 10 10 10 10 10 10 10 10 10 10 10		LTA, ULT		and the second second			
Main/Pilot Hill Ditch (Main Ditch #2)													
SDD Diversion Flume to Blue Heron Falls	\$ 148,415 \$	5,523 \$	5,689 \$	5,860	\$ 6,036	\$ 6,217 \$	6403 \$	6 595 \$	6 703 \$	6 007 I	7 207 8	7 (00	
Blue Heron Way Falls to Kaiser Siphon	\$ 115,844		The second second		The state of the second second	THE REAL PROPERTY OF	Contraction of the		0,100 0		· 1,201 \$	1,423 3	0 7,040
Kalser Pipeline and Kalser Siphon	\$ 196,945					\$	196,945		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		2 Mar 19 19 19 19 19 19 19 19 19 19 19 19 19	113,844	
Katser Pipeline and Kalser Siphon	\$ 186,643 \$	6.946 \$	7,154 \$	7,369	\$ 7,590	\$ 7,818 5	8.052 \$	8 294 \$	8 543 \$	9 700	0.067 6	0 225	O DIE
Ford Siphon to ALT Water Treatment Plant	\$ 11,662						· Miniaal Webston London Rose	AND DOM TO POST AND AND	S	11 662	aa.	5,000 1	9,013
ALT Water treatment Plan to Campground Wastegate	\$ 224,258	A COMPANY OF A STREET					AND THE REAL PROPERTY.	Contraction of the second	TANK TO THE PARTY OF	The second second	Same Street Street Street	- FARTHER STREET	
Campground wastegate to willow Creek wastegate	\$ 455,364		the second s					\$	190,016 \$	195,716 \$	69.632	and the second second	and a state of the
Paldrides Westeente to Baldridge tvaslegate	\$ 99,035		C. C			NEW AND AN AVAILABLE			A REAL PROPERTY.	A DECEMBER OF STREET	Carlos and the second second	and the second second	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	\$ 25,859	\$	25,859									ANA AND MANAGEMENT	Contraction Contraction
Dormon Whe to Knickerbacker Creek	£ 007 700												
Dominan wya to Knickarbockar Creek	\$ 237,729	The second s	Martin Human and American And	CONTRACTOR AND A DECK									
Page Orchard Wastenate to Therakal Wastenate	a 142,093				W. V. BARRIS MILLION	CALL DE HUSER DE LA CAL	and the second second						
Pliot Hill Ditch	\$ 01,090					\$ 87,598							
Therekel Westerate to State Huw 49	¢ 252 462												
Strite Hay 49 to Loveing Wastonate	\$ 332,103	THE REAL PROPERTY OF	A CAMPERINA CONTRACTOR	Call y Color Call of Call	With leasing the line water and the line of the		Martin of Martin Concerning			an and a second second second second		\$	352,163
Lowainy Wasterate To Nacle Wasterate	\$ 247,002	A CARLEN AND A CARLEN	and the second second	and all public	Carl and the second			and the second					
Construction of the second states and the second states and the second states and the second states and se	\$ 247,502		States and the second second		THE OWNER OF THE OWNER								
Warner Reservoir to Warner Reservoir Wasterate	\$ 215 783								A start of the		and the second	in the	
Water Reservoir Wastenate to Bayley House Wastenate	\$ 18,984		19 084	15 Part of the		A CONTRACTOR	States a State States	Party Statements washing					TAX Providence of the
Bayley House Wastegate to Pilot Hill Reservoir	\$ 4,241		WEEK STORE	Mar Contractor	Long at the second second	A STATISTICS IN COMPANY		Automation of the Automation of the		A DATA	A STATE OF STATE	Carlos Carlos	He had to be the
Overall, Plot Hill Ditch	\$ 492 883	The second second second	42 438	13 700	\$ 45 D20	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT 107 5	40 4064 4	\$	4,241	100 PA 90 PA		6000
Kelsey Ditch		Tex monthly the second second	TANK OF A		40,020	40,511 3	47706 34	42,180 \$	00.011	02,193	03,101 \$	61,771	A STATISTICS OF A
St. James Wastegate to Hwy 49	\$ 28.257					\$ 28 257							
State Hwy 49 to (Forrest View Dr.) Falls	\$ 17,722	and the second second	U.S. CHILDREN PLANT		the state of the state	3142		100 ACT	SAME THE CONTRACTOR			1	The second s
(Forrest View Dr.) Falls to Irish Res, Wastegate	\$ 43,968	and the second		AT WALLS IN CONTRACTOR	And the Constant of the Consta	State State State State	2	43 968	en exester.	and the second second	and the second state of the second states		
Insh Res. Wastegate to Two Pines Signon	\$ 393,755		Avenue Teo ant Sea		A STATISTICS	Carlo Mandal Maga	and the second second	CIAN DA DE CAR	300 (451 900)	NA PACAR	A TOTAL CONTRACTOR OF	an a	
And a second	CONTRACTOR OF THE CONTRACTOR OF THE	A REAL PROPERTY AND A REAL PROPERTY.	To 2 Million Taxable Taxab	NAMES OF A DESCRIPTION OF A DESCRIPTIONO	Mar and a state of the state of	With Lot of the second state of the second state	and the state of the state	And and a second s	and him the second s	A State of the second	and the second se	APPENDIX LABOR (1) ADDRESS (1)	A STATE OF A

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

Table 8

Water System Capitol Improvement Costs and Reliability Measure

Item	(4)		FY 17	EV 18	EV 10	EV 20	51/04	-		
Wagner Reser	voir to Wagner Reservo	ar Westegate	State and the	1110	F1 13	FT 20	FY 21	FY 22	FY 23	FY 24
Kelsey Ditch (Kelsey Ditch #1)		Non-Average Section (Section (Section 20)	We live to be a set of the second	A PROPERTY OF	In the second second second	State in the Solid State	States and a second		and the second second
The Crails to S	t. James Wastegate									
SL James Was	legate to State Highwa	y 193			and the second second	A CONTRACTOR OF THE PARTY OF	A CONTRACTOR OF A CONTRACT	A CONTRACTOR OF THE ADDRESS OF	AND ANY AND	Carl Collinson Collinson
Forest View Dr	ive Falls to Irish Res. W	/astegate		Contraction and an operation of the second		nine toppel of such to che datage		and the second second second		
Kelsey Ditch (Kelsey Ditch #2)									
Black Oak Siph	ion to Dukes Wastegate	0								
Dukes Wasteg	ete to State Highway 19	13	State Short				No. Start Start	Share Ala		ALL
Mellows Waste	gate to Kelsey Flume									
Acteey Flume t	o Stork Westegate		Contract for				See August	A PARTY PARTY AND	A STATE OF A	A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERT
Stone vvastega	te to Kelsey Reservoir								Contrast interview of the Post Latte	
Supioial Weter Statem										
Auburn / sten	Toollo Comdae Ause	8								
Greenwood Rd	Food from Wil									
Greenwood Dr	Lisin Contenant	The second s			and the second					
Angel Camp Ct	Booster Pump		A stranged and		450.040					1,504,491
Highway 193 C	ross Tig-Frinks IN Ren	and a second	Construction of the local distance of the lo	A CONTRACTOR OF THE OWNER	158,913	Contractory and and		AND IN COLUMN TWO IS NOT		
Gravity Raw W	ater for Golf Course	and the second	and the second	ENTRY, OF DESCRIPTION OF	410,017		A BRANCA BRANN	A Star Anna Anna Anna Anna		and the second second
Digcier Tree Ct	to Westview Trl. Tie	A REAL PROPERTY OF THE PARTY OF	The Part House	and the second second		Contraction of the second	Holder States			And a subscription of the
Indian Rock Ro	ad Main Replacement	and a second	An Artic More Artes and	S	102 826	Several services (1587.68	No. 12 Contraction			To Carton Station of the
Cherry Acre Ro	ad PRV-Cross Tie			COLUMN THE TOTAL	102,020	Contraction of the last	and the second second	A CONTRACTOR OF		NAME OF TAXABLE PARTY.
Catecroft Road	Main Replacement		All and a second second second second	\$	325,615	An Arban In Arban and Citta			A STATE AND A STATE OF	
Highway 49-Pil	ot Hill Loop		White set of the		Mar Cold Street Martin	ALL AND ALL AND ALL AND			Contract on the top	000 000
Salmon Falls R	oad Main Replacement	t		\$	800,795	MAKE ON PROPERTY OF THE	A AND STORE STORE STORE	and the second second	A CALL OF A CALL OF THE	060,003
Second Deer R	avine Tank, 0.6 MG		HIGH ST. ALL SPACE		A STATISTICS	1. * (D.4/6/4)?	MANDAS ON SOM	The state of the	A DATE TO BE AT THE	
Cherry Hills Tar	nk, 0.4 MG			\$	1,226,120	a sense with the sector is used as a service	And the officer of the other	1. (Ja)	West's and the set of the set	A STATE OF A STATE OF A
Walton Lakes	Service Area									
Citabria Ln. Loc	op Tie									
Fain Ln. Extens	lon							Sector Sector	And a training of the	CALCULATION OF THE OWNER
Buffalo Hill Rd.	Line Replacement			\$	149,565				and a strength of the second	the state of the state of the state of the
QUIEC MIRCE LOC	p lie					State Provident.	and the second second			108.561
Quiet Place Rei	move Check Valve		STATE OF STREET, STREE							
FURWAY DE LA	ne replacement	the second second second second second	and the state of the state of the		115,290			14.5.9	i la si	A
Reserver Rd	The Replacement			5	420,651	No. of the local data in the local data				
Silent Meadow	n Line Replacement	BITTOR F.B.	and the second state		407.000	Car I Man Come and	and and a second second			
Sanromo Rd 11	ne Regiscament			TACKNER HARRING	197,862	and the second second		He of states in the states	NUMBER OF STREET	
Black Oak Mine	Rd. Proposed Improve	ament			The second second second	Ameluratered States of the	and arrivation the on	A STATE OF THE STATE OF	North Providence	959,045
Greenwood Rd.	Main Replacement		CONTRACTOR OF THE PARTY OF THE	S POINT AND A POINT	OP AND REAL PROPERTY.		MALES TO AND A DOCTOR		WAREARD BUILT BUTTLA MANUNAL	106,561
Traverse Creek	Rd. Line Replacement		In the second states we will be	A CONTRACTOR OF				which at the subscript was	mannester zahlanning	810.075
Bayne Rd. Line	Extension		An Average Street of the second s	and the state of the state	the second second	A CHARLES AND	CONTRACTOR OF STREET		ALC: NO. OF THE OWNER OF THE OWNER	819,975
Bayne Rd. Tank	(and the second se	THE REPORT OF THE PARTY OF	Dealester of a linear start	A CONTRACTOR OF	CALCUL THE STREET	
Lazy Brook Tri.	Line Replacement	The state of the state of the state of the state	STEREO STREET	Thursday and the second	A STATE OF	White a set of the set of the set of the	the south we see the		Sector Se	231 182
Whitney Ct. Pre	ssure Reducing Station	1	and the second				Contraction of the Lot of the	ACC AND ANY OF THE AVERAGE AND A	Construction of the local of	11.10 m
CalcLn Line Ro	placement		Contraction of the second	\$	235,253	AND A CONTRACTOR		AVAN DE MARCES E MULTUR	Nes and the second second	
Shasta Rd. Line	Replacement								5	196,866
Telmalpuls Rd.	Line Replacement	A state of the sta		1 - A - 1 \$	171,376		CA AND STATE	ALCONTRACT PAR	A CONTRACTOR	Contraction of the second
Pikes Peak Cir.	Line Replacement			\$	99,710					
Garoen Park Li	ne Replacement			An this of the state				11 11 To 11	A CARLE ON THE	2-461 - 461 - 1813
Hancock Rd. Te	ink Tie		The second s		with the second second second					
Cercen Park Ta	Ink Proposed Improven	nents	Real and March		il marine in		1.0			A THE REAL PROPERTY IN
Hotchkiss Hill S	ub Tank Addition		A A A A A A A A A A A A A A A A A A A	\$	691,738					
Tavesaa Greek	no. Booster Pumps		HIT IN AN AND THE ST		98.594	Trans Allen and Allen and Allen	LUCENCE AND	ET AL AL AL AL	SUG OF GOOD STATE	As a film of the Law of the

.....

•

 $V:\label{eq:label_star} V:\label{eq:label_star} V:\l$

Table 8 Water System Capitol Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars)

Item	FY	05-24	FY 05	FY	06	FY 07	EY 08	EV 00	EV 10	EV 44	5/ 40	5144			
Wagner Reservoir to Wagner Reservoir Wastegate	\$	28,840	\$ 28,840		27-280-172-181	Statistics and	AS STORES SHARE	A TON TO A	(State and a state of the	FILL	FT 12	FY 13	FY 14	FY 15	FY 16
Kelsey Ditch (Kelsey Ditch #1)					*******************************				And the second second second	A STORAGE CONTRACTOR		Fac Standard	Charles and the second		
The Crails to St. James Wastegate	\$	144,282	E.	\$ 14	44,282										
SL James Wastegate to State Highway 193	\$	9,004		6	And the second		\$ 9,004	1. 2 Miles	A STATE OF STREET	A CALL STORE STORE		1440 (PAR)		Contraction of the second	SW
Forest View Drive Falls to Irish Res. Wastegate	\$	79,568		\$ 7	79,568	,7.7 M	and the second	and the second	19 11 11 11 11 11 11 11 11 11 11 11 11 1	and the second		and the second second		State and the state of	P Y's Spin
Kelsey Ditch (Kelsey Ditch #2)															
Black Oak Siphon to Dukes Wastegate	\$	52,530	\$ 52,530												
Dukes Westegate to State Highway 193	\$	128,750	\$ 128,750								ALC: CONTRACTOR OF THE	Contraction of the second	STREET, STREET		a statute and a state
Mellows Wastegate to Kelsey Flume	\$	110,131						\$ 110,131						Anna I (17 Anna 20 Anna 17 Anna 17 Anna 17	The Back of State of State
Nalsey Fillime to Stork Wastegate	5	52,451	and the second second	States -	S	52,451	La transfer de la compañía	Mer Marian 12	Contraction of the second			- A COLUMN TOTAL	A STATE OF STATE	SAL BURGER	
Stork Wastegate to Keisey Reservoir	\$	123,600	\$ 123,600												Contraction of the second second
Subiotal	\$ 4,	,793,436	\$ 747,780	\$ 83	33,867 \$	834,843	\$ 1,125,509	\$ 1,251,436							
Autor System															
Greenwood Pd. Eand from Wi		257 050						-							
Greenwood Rd. Feed Iroll WL	NIN CHINA	307,000						\$ 357,056		Mart was done to serve you					
Angel Camp Ct. Booster Rump	C.	459 042	Contract of the second			Contraction of the second				Arrest Street Bar	A				Sales and a second
Highway 183 Cross Te-Bracks I N Penlace		130,913		A THOSE AND IN COM			Parties and the second second second		A MILLION AND AND AND AND AND AND AND AND AND AN	CONTRACTOR OF CALIFORNIA STRATEGY OF CONTRACTOR OF CONTRAC	dist province of 20000 march	And in case of the second second second second			
Gravity Raw Water for Golf Course	Contraction of the local division of the loc	478 780	The second second second second	NY 4				£ 470 700	1911	and the second second second		71-22-24		in a state of the	
Cloner Tree Ct In Westview Tit Tie		69.757	A COLUMN THE PARTY OF		151 0510 00VV 950		The second second second	\$ 4/8,/80	STATE OF THE OWNER DO NOT			CONTRACTOR OF TRACTOR	and a state of the state of the	Sector contractor contractor	Development of the second s
Indian Rock Road Main Replacement	\$	102 826	A DATE OF THE REAL PROPERTY OF	West 2011 - 534		14/2014/310/254029	NAME OF CASE OF		Santa Artic	Coloradora Carlo	1	Sec. Sec.	5 53,757	S. A. C. 198. A.	A CALL AND AND A
Therry Acre Road PRV-Cross Tie	ST STORES	215 027	The second second		and the second second	2.0	THAT HE HAR SALES		And the second second		A THE R. OF STREET	and the second second		Contractor occurrent and a	
Catecroft Road Main Replacement	S	325,615	1000	N 2014 - 2014		We want						Constant and the second states	⇒ ∠15,021		2 . S. S. A. 2
highway 49-Pilot Hill Loop	5	898.965	Current and and the	ER IN			and the second second second	Star She sugar		No. of Concession, Name		CONTRACTOR OF THE OWNER	SALE OF STREET	25 M T 10 A M 200 M	A CONTRACTOR OF A
Salmon Falls Road Main Replacement	S	800,795	and the second second second second	ALL SALES AND	No. And Anna Anna Anna Anna	NAMES OF TAXABLE PARTY.	And the Alter and the Alter		North Contraction Article			1947-1949-19932			Constitute of an Astron
Second Deer Ravine Tank, 0.6 MG	\$ 2	277.974		the second	A AGARAGE AND		and the second second	\$ 2777 974	No. Contraction	New York WARDING	CHARLES CALLER			CHARLES SHARPS NOT	In the second second second
Cherry Hills Tank, 0.4 MG	\$ 1,	226,120		1000 1000 21 F #F	A HEARING MARKED BALL	fail (in a state of the second second	Tories West State State State	·			San States - Constant		THE TRACTORY		10 A
Walton Lakes Service Area	್ಷ														
Citabria Ln. Loop Tie	\$	123,640											\$ 123.640		
Fain Ln. Extension	\$	421,976	The Martin			12 (19	ALC: NOT THE REAL	5. 421.975		The second second	Contraction of the second	State State	4 120,040	A REAL PROPERTY OF	A STATE AND A STATE AND A STATE OF
Buffalo Hill Rd. Line Replacement	\$	149,565							Contraction of the second second second		Concernit and the second of the	State of the second second second		Kampa Katha de	the second second second
Quiet Place Loop Tie	1 Coultes	108,581		A. S. S.				Alter and the second	news the second	C. A. C. LAND ST. T. C.		an appropriate the second	202 10 - 10 - 202	A DESCRIPTION OF THE PARTY	A COLUMN THE COLUMN
Quiet Place Remove Check Valve	\$	5,796						\$ 5,796	T BREAK FAIL PROPERTY DESCRIPTION	1000 AD 0 10 10 10 20 40 40 40 40 40 40 40 40 40 40 40 40 40	and the real data of the state of the state of		(48.175.004 ⁻¹ .17.12) 19.7 330/3		2000 CALX COM 3
Holloway Dr. Line Replacement	5-1	115,290					Contraction of the second		Contraction and	이 아님 그는 바람이 지하는 지하는 것이 아니 아이가 아이가 아니 아이가 아이가 아니 아이가 아이가 아니 아이가	Street and a street and a		A DECEMBER OF	Contraction of the second	
Longview Ln. Line Replacement	\$ 4	420,651	No. of Concession, Name												and a second
Reservoir Ro., SLID, mwy 193 Replacements	and the	232,371	Maria Carlos		Contraction (g)		Contraction of the second		and the second s				\$ 1,232,371	Contraction of the second	
Silent Meadow Ln. Line Replacement		197,862	A REAL PROPERTY AND INCOME.	NAMES OF TAXABLE	UTURN MONTH		CONTRACTOR OF CONTRACTOR	THE OWNER AND ADDRESS OF		The second second second		and the second se			
Black Oak Mine Ed Deposed Improvement	C	106 561	And the second se	in in		AL PROPERTY AND			A STREET AND ADDREED			and the second second	and the second	an a state of the	
Black Cak Mille Rd. Proposed Improvement	- e	100,501	No. of the second second		Service Services	and the second second	Charles and the second				CONTRACTOR CONTRACTOR	We call and the second state of the			
Traverse Craek Rd Line Replacement	S I	819 975	San Shaker and the	A PARTY AND		the second second	A CONTRACTOR OF A			A STATE AND A STATE AND A	and the state of the	ALC: CALL	\$ 279,535		
Came Rd. Line Extension	-	489 508	ASS CALL DE CONTRACTOR	ALL MARCH	STATISTICS AND IN			5 460 Kng		and the second		A CONTRACT OF A CONTRACT OF	N TA STATISTICS	CONTRACTOR OF STATE	COLUMN STATES
Bayne Rd. Tank	\$ 1.	814 287		28. 38.	TRACTOR AND		100 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	e	and all and the second	Contraction of the International Contraction	Star And Arthurs	A CHARLEN AND AND	\$ 1,914,297		And a state of the
Lazy Brook Tri Line Replacement	S	231 182	and the second se	5	W. Stortstein	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	THE REAL PROPERTY	MINSTER AND CONTRACTOR			CANADA CONTRACT		\$ 1,014,207		THE TRUE TO A STATE OF
Whitney Ct. Pressure Reducing Station	S	125,202		AND COMPANY OF	STELLER AND AND AND	CARE LAND & LEVELAND A	WATER COLORADO IN COLORADO	\$ 125 202	CE MILLION OF A SAME					D. N. MULLER	State Street - All St
Osk Ln. Line Replacement	5 2	235,253	AND STREET, ST				100 CON 100 2000	in the second						STATISTICS STATISTICS	
Shasta Rd, Line Replacement	\$	196,866	**************************************	- WARDEN NA	MINERS HIS AND						A CONTRACTOR OF THE OWNER OF THE				A THE REAL PROPERTY AND A
Talmalpais Rd. Line Replacement	5	171,976	No. No. No. No. and	-40		States and the second	THE WEIT AND AND	and the second se		A Longe der Aus		1.11.11.1.1			
Pikes Peak Cir, Line Replacement	\$	99,710		rng (1000000000000000000000000000000000000	nn e Sanan m/Ale	Constraint Providence	International Contraction of the light	CANER AND PROPERTY AND ADDRESS	AT IN THE R. P. LEWIS CO., S. LEWIS CO., S	an at the second se	ana na kata kata kata kata kata kata kat	CANANA TAN CANANA PANANA	Annana Ani di ka Tara ila	CALIFORNIA CONTRACTOR OF THE OWNER	Construction of the Construction of the
Garden Park Line Replacement	\$	112,450			it is set of			5 112,450		NY TELEPISE			and the second second second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hancock Rd. Tank Tie	\$	130,998						\$ 130,998							
Garden Park Tank Proposed Improvements	\$ 1,	123,514	And Alexandre	Carl Direk	a should be			and the second	1-15-10-1				\$ 1,123,514	14 15 15 1 K	275-245-207-9-3
Hotchkiss Hill Sub Tank Addition	\$ 6	691,738	We way out the												
Travense Creek Rd. Booster Pumps	S	98,594			and the second	ALL AND A	Carl Start Start			And the second second				Contraction of the second	

 $\sim z$

à.

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xis

Water System Capitol Improvement Costs and Reliability Measure

Item	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	EY 23	EV 24
Capital Improvements								1124
Water Treatment								
Greenwood Lake Water Treatment Plant								
Walton Lake WTF Haw Water Bypass		A DAY AND A REAL		Marine and a set of the	A STATE OF A STATE OF		A Destate the second second second	A CONTRACTOR OF THE OWNER
Inspection of Treated Water Storage Tanks			A Trace of Carlot Contractor Contractor		and a second second second		Server States Store 1. 15	200 A 100 Store
Weiton Lake Outlet Works	Sector Pratic			10-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		A CONTRACTOR OF THE OWNER	Contraction of the second states	The state of the state of the
Subtotal						A CONTRACTOR OF THE OWNER OF	NAME AND ADDRESS OF ADDRESS OF ADDRESS	
Distribution System								
Hwy 193/ Sliger Mine Mainline Relocation		Month Street and Street Street						
Contact Park Line Repeacement	a later for the		a la de de de la	and the second	a los and the second			in the second
Silver Mine Road DRV Replacement	With the Low Clark		THE COMPANY OF THE OWNER		Post of the second s			
Tank Telemetry Enhancements	and the state of the state of the		and the second second	al former a state and	The Part of the			
Subtofal								
Conveyance System								
Walton Lake Dredging								
Up-Country Reliability Measures	A MAN DA A DA A DA A	A CONTRACTOR OF THE OWNER	A CONTRACTOR	States and see and		the survey of the second second	and the state of the	No. of Concession, Name
Cabin Waste Gate Replacement	and the second second second	Alter and the second second second	and the second second second	Relation By Statistical State		the standard and	to which interest in the	
Blue Heron Falls Conservation Plan				Fight Barris	A CARE AND A CARE AND A CARE	S States and L		State of the state
Kaiser Siphon Replacement			ar 25 H Oscalar in Data and Salay St		nin hour in The Australian	ANTINA 2000 CONTRACTOR	and the second	AND MALER AND
Subtotal								
Wastewater								
Station 16 Enclosure								
Mannole Segling						1 . A . A . A . A	the set of the	and the second second
Collection System Repair								
Subiotal								
Priority Deliability Manager Deserves detter								
Priority Reliability Measure Recommendations								
Ditch System								
Op-Country Ditch								
Structure #1 to Structure #2	No. of Color States	A DECK DECK DECK DECK				and the second		
Structure #3 to Structure #4	Watter Left Art Same	and the second second	ten de manuelles	The man in the other of	and the second		ALLER MICH, I FRANK ST	(1).(1).(1).(1).(1).
Structure #5 to Structure #6	CONTRACTOR OF	Salar Salar Salar						CONTRACTOR OF CASE
Balderston Wasterate to Send Tran Sinhon	24.	Man and a Person in Solid	and a final the second second			dia dia dia mandra	and in the second second	A CONTRACTOR
Waton Lake	and a stranger	The second states	CARD CONTRACT	States of Long Street Street Street	Contractor and the second	TO BE DE LA CALLER ON THE OWNER	Contra Caller Contraction	A CONTRACTOR OF A CONTRACT
Buckeye Conduit to Shroeder Conduit				The second second second second				the state of the second
Main/Pilot Hill Ditch (Main Ditch #1)								
Buffalo Hills Conduit to Spanish Dry Diggins Road								
Spanish Dry Olggins, Road to Taylor Mine Outlet			A STANDER	No. Service we have	A DESCRIPTION OF THE OWNER OF THE	And State State State State State		and the second se
Taylor Mine Outlet to Cabin Wastegate								
Cabin Westegate to Growlersberg Wastegate		Stand Street Street			CORPORT REAL	Mr. Coperation		
Growlersberg Wastegate to Summers Wastegate	ANTIN AND REPORTS	Carlos - Western Stort Internation	Contract Principal PrinciP					
Summers Wastegate to Spools Wastegate		man from the second	comes and provident			1. Sun 17 1	the state of the state of the	il diana anna
Spools wastegate to Jackass wastegate	A STATE OF TAXABLE PARTY OF TAXABLE PARTY					Manager and State and State	A DESCRIPTION OF THE OWNER OF THE	A CONTRACTOR OF A CONT
Male/Pilot Hill Ditch (Male Ditch #2)		and the second second		and a state of the state of the	and the second states and	mit - m. Am m So.		ing the second second
Blue Heron Fails to Kaiser Sinhon								
Kale or Sinhon to ALT Water Treatment Plant	A REAL PROPERTY.	Sandar and a state of the second	A STATE OF THE STATE OF THE STATE	C. S.		The state of the second second second	North Contraction	The second second
Willow Creek Wastegate to Baldridge Wastegate	the second second	Manual Property of the second	Same Street Street	a berth man a base of the second	In the second second	A PROPERTY AND		A CARLEND AND A CARL
Main Ditch/Pilot Hill Ditch (Pilot Hill Ditch)								
Dorman Wye to Knickerbocker Creek								
Lovelov Wastegate to Macia Prostagent				ATTA WAR AND AND	T AKT T		Passan and a second	
Nagle Wastegate to Capecroft Wastegate			A CONTRACTOR OF THE OWNER OF THE	AND	And the second second second	Western Street Street, Street St.		www.weedicker.com/alacentica

-

 $\label{eq:control} V:\label{eq:control} V:\label{$

Water System Capitol Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars)

Item	FY 05-24	FY 05	FY 06	FY 07	FY	08	FY 09	EV 10	EV 11	EV (0	5744			
Capital Improvements			27						_ = = = = =	<u>PT 12</u>	FT 13	FY 14	FY 15	FY 16
Water Treatment														
Greenwood Lake Water Treatment Plant	\$ 6,671,336	\$ 1,030,000	\$ 3,182,700	\$ 2,458,636	and the second second									
Inspection of Treated Water Storage Tanks	\$ 109 620	a 103,000	5 159,135	10 A	-					WAL AT CALLER AND AND				The Manual Providence
Watton Lake Outlet Works	\$ 53.045		\$ 31,827	\$ 32,782	\$	45,020					Control of Street St			
Subtotal	\$ 7,096,145	\$ 1.133.000	\$ 3,426,707	\$ 2491 418	S.	45 020		在1991年1月1日 1月1日日 - 1月1日日 1月11日 1月11日 1月11日 1月11日 1月11日日 1月111日 1月111日 1月111日 1月111日 1月111日 1月111日 1月1111日 1月1111 1月1111 1月1111 1月11111 1月11111 1月11111 1月111111				the states	The second second	1. 1. 1.
Distribution System	4 44444468			• 2,401,410	: 	40,020								
Hwy 193/ Sliger Mine Mainline Relocation	\$ 463,500	\$ 463,500												
Carden Park Line Replacement	\$ 135,000	Sur Land Call	\$ 53,045	\$ 81,955			and the second states	and the second s			New Party Concerning	L'AN TOTAL	and the second sec	and the second second
Silver Minu Road PRV Replacement	\$ 129,854	A COMPANY OF A	\$ 42,436	\$ 87,418	Contraction of the	FALLER	A COLUMN TO A COLUMN TO A COLUMN	autur anna a mars						
Tank Telemetry Enhancements	\$ 102.815		and the second second		2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	50,2/5 50,649 C	E0 487		A SAN		statilities in this is	And the second		
Subtotal	\$ 887,444	\$ 463,500	\$ 95,481	\$ 169.373	\$ 1	06.923 \$	52,167							
Conveyance System		S.	13 B.		10 A		02,101							
Walton Lake Dredging	\$ 562,754				\$ 50	62,754								
Cobin Weste Cete Replecement	5 546,841	\$ 103,000	\$ 106,090	. \$	5 1	12,551 \$	115,927		A CENTRAL CONTRACT	The second second	KA COLEMAN (S. C. S.	Stand They are		and the second second
Bud Henry Falls Conservation Plan	\$ 32,782 \$ 110 AD&			\$ 32,782	STEWER AND	Contraction of the			No. of Concession, Name		Charles and the second second			
Kalser Siphon Replacement	\$ 103,000	\$ 103,000			and share with the	3 A A	TIBAUS	1412 S. 10			Street Street Street		A 44	
Subtotal	\$ 1,364,782	\$ 206,000	\$ 106,090	\$ 142.055	\$ 67	75.305 \$	235,333							
Wastewater			1 1000 1210000 (2000)									×.		
Station 16 Enclosure	\$ 54,636	THE WORKS WAR AND A		\$ 54,636										
Collection System Repair	\$ 23,185	E 450			and the set	100 A 2010 S	23,185.		AND TAKEN OF THE OWNER OWNER OF THE OWNER OWNE	CALL TRANS	The service of the se		A State of the second second	
Subtotal	\$ 105 164	a 5,150 \$ 5,150	\$ 5,305	\$ 5,464	ş	5,628 \$	5,796							
Total Capitol Improvements	\$ 9,453,536	\$ 1.807.650	\$ 3.633.583	\$ 2,862,945	\$ 85	0,020 \$ 32,877 \$	20,902							
Priority Reliability Measure Recommendations		• • • • • • • • • • • • • • • • • • • •	* -,,	+ =100=1010	* •••	ν	010,402							
Ditch System														
Up-Country Ditch														
Structure #1 to Structure #2	\$ 625,153	Name and Address of Taxabase			\$ 33	87,653 \$	287,500							
Structure #2 to Structure #3	5 78,876			78,676		a in the second	a de la companya de l					A STATE OF THE STA	-the states	and the second second
Structure #5 to Structure #4	5 333,262 5 323 678	10 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	5 377 576	\$ 333,282			tuging anticipation of the		and the second second		A CONTRACTOR OF			
Balderston Wastegate to Sand Trap Siphon	\$ 124.931		- 020(0) J	and the second second	\$ 12	4 931	and the second states	Sector Theory and the sector	the second s		De l'all in transfer	In a second second second		Sectional States
Wetton Lake	\$ 565,559	川市市の市市	near and seatting the	an and service and	\$ 28	1.377 5	285 181	California Constantina California			State and states	A CONTRACTOR OF	A PARTICIPATION OF A PARTICIPATION	No. of Concession, Name
Buckeye Conduit to Shroeder Conduit	\$ 87,550	\$ 87,550					And the second second			In the second			1.100 Color (1.100)	PERSONAL PROPERTY INCOME
Main/Pilot Hill Ditch (Main Ditch #1)														
Bunalo Hills Conduit to Spanish Dry Diggins Road	\$ 61,800	\$ 61,800		In the second	A CONTRACTOR OF CONTRACTOR					and the second second second second				
Taylor Mine Outlet to Cabin Wasterate	\$ 209.207	all a state of the state	State in the second	\$ 72 120		7 521 6	353 579							And the second
Cabin Wastegate to Growlersberg Wastegate	\$ 209,090	103,000	3 108.090	12,120	State of the later	17,551 \$	09,550	S. M.S. W. S. Wart		SAN STREET	and an and the second second	The fact that they been		A STATE OF ALL AND A
Growlersberg Wastegate to Summers Wastegate	\$ 12,381	A PROPERTY OF THE PARTY OF THE PARTY OF			\$ 1	2,381	Walkers the same lists	AND DO NOT THE OWNER OF		Sector Contraction in the				and an indian Street
Sianmers Wastegate to Spools Wastegate	\$ 98,787	\$ 30,900	\$ 31,827	\$ 36,060	AND THE AND	Provide Statistical	Concern and the			CHILDREN STREET			ALC: NAMES OF	
Spools Wastegate to Jackass Wastegate	\$ 8,695	the state of the second	CONTRACTOR OF LAND		W There are	\$	8,695							
Janvass Wastegate to Greenwood Reservor	a 401,000			CPC:812 4	- \$	3,110	The Contraction of the	Service States		2024 State (50)	Constant of the second		MARCH STREET	Harnes .
Blue Heron Falls to Kaiser Siphon	\$ 90,685	20,600	\$ 21,218	\$ 21,855	\$ 2	7.012								
Kalker Signon to ALT Water Treatment Fant	\$ 219,699	10/1-10/1-10	\$ 106,090		Constant days	S	113,609		ALC: NO DECIMAL	100 100 100 100 100 100 100 100 100 100	A State of the second second	R. M. S.	TO THE OWNER OF THE ARY	
Willow Creek Wastegate to Baldridge Wastegate	\$ 88,768		\$ 21,218	\$ 21,855	\$ 2	2,510 \$	23,185	and the second second second second	and the second second second second	and a statut of the monotonic state	and the second design of the second	and the second	and the second second second second second	N. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Main Ditch/Pliot Hill Ditch (Pliot Hill Ditch)														
Dorman Wye to Knickerbocker Creek	\$ 22,660	22,660			Control of the second	1. 1. July 2 1.				and the state of the second		AN OR STREET, ST. A.C.	C. Social States of Long	
Nagle Wastegate to Capecroft Wastegate	\$ 4,120 S	4,120					And the second second	An Allhouse Meric	A CONTRACTOR OF THE OWNER					

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

Table 8

Water System Capitol Improvement Costs and Reliability Measur

Item	FY 17		FY 18	FY	'19	FY 20	EV 2	21	EV 22	EV	. 22	EV 04
Pear Orchard Wastegate to Therekel Wastegate									1 44	FI	23	FT 24
Pilot Hill Ditch												
Therekel Wastegate to State Hwy 49												
State mwy 49 to Lovejoy Wastegate			\$ 3	3,313	507 24 540			State and	武田 田田	- Carrier	PER WAR	有关的这次引进了 有
Lovejoy Wastegate To Nagle Wastegate	-									\$	141,375	NUMPER DESCRIPTION OF
Warner Berereite Wagner Reservoir		100 100		\$	96,68	1						ALCONT OF THE REAL
Wagner Reservoir to Wagner Reservoir Wastegate	and the second	N/HAMME	TAX STR		THE AND THE				\$ 126,75	50		
Raviev House Wastegate to Bilot Hill Pasenvoir	n Athin (Sealth	Sec. Mar			sele To		A DAY DAY AND AND					
Overall Plint Hill Dirch		and the second	A CONTRACTOR	THE REAL PROPERTY OF	Constanting of the		ALC: NOT THE OWNER					
Kelsey Ditch		ANNER!	Ant ?	CALCULATION OF	NRIA SAL	RICHARD	The second		Solution of the			
St. James Wastegate to Hwy 49												
State Hwy 49 to (Forrest View Dr.) Falls	A ST STREET	11 AL 16	EXALL ¹ STATE	5	11 37	State of the second	Contraction of the	No. of Concession, Name		NICE AND INCOME.	Contraction of the	
(Forrest View Dr.) Falls to Irish Res. Wastegate		Contraction (Sec. 1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		No Alter	Careford Street Street	Carl Son The Son	Contrain 199		C. C. C. C.	16.1	Lage tinger Lager
Insh Res. Wastegate to Twin Pines Siphon					19-1 6	\$ 245.	375	CONTRACTOR OF				
Twin Pines Siphon to Black Oaks Siphon									New Contraction of the owner of the	ar attain for his to	nang Company	And the state of the state of the
Black Oaks Siphon to Dukes Wastegate	1211		and the second second	1. 2 m				March State	19 m	eu -	Contraction of the second	
Dukes Wastegate to State Hwy 193										NAME OF A	ALL NO CONTRACTOR	
State Hwy 193 to Chicken Flat Wastegate	1000 M	Sec. 2				and the first				Jan - Mar		1 1 1
Mellows Wastegate to Keisey Flume	N CONTRACTOR		NUMBER OF	10100100000		Care Contraction	Columba Statementer					
Stork Westergate to Kelsey Reservoir	\$ 0	0,496	101	A Constant	STREEDAILY A	CON BUCK		No. of the second	100	- Alter and	A. A. Car	
Overall, Kelsey Dirch	-	CONTRACTOR OF	100 C	Contraction of the	State of the second	Structure and a state	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Contraction was	\$	25,188	CONTRACTOR OF THE OWNER.
Spanish Dry Diggins Ditch	ante tir 22	500 ° 560 ° 66	10 0 0 C 0	12 2 2 10 10 2	16. X 11			State State				CONTRACTOR OF THE
SDD Flume to End												
Taylor Mine Ditch												
Taylor Mine Outlet to Shadle Reservoir												
Other												
Overall, GDPUD												
Overall GDPUD	\$ 14	0,000	\$ 14	4,375					-ditter and			
Total Second Priority Reliability Measure Recommendations	\$ 33	7,601	\$ 43	7,039 \$	322,726	\$ 439,7	725 \$	152,913	\$ 460,03	8 \$	216,288	\$ 231,725
Total	\$ 33	7,601	\$ 43	7,039 \$:	3,665,726	\$ 439,7	725 \$	152,913	\$ 460,03	8 \$	216,288	\$ 3,361,725

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xis

Water System Capitol Improvement Costs and Reliability Measure Recommendations (2005 Dollars)

Item	_ FY 0	5-24	FY 05	FY 06	FY 07	FY	08	FY 09	FY 10	EY 11	EV 12	EV 12	EV 44	EV/4E	E24 4 0
Pear Orchard Wastegate to Therekel Wastegate	\$	75,563						\$ 75.563	3			F1 13	FT 14	PT 15	FY 16
Pilot Hill Ditch															
Therekel Wastegate to State Hwy 49	\$	247,000													\$ 247.000
State Hwy 49 to Lovejoy Wastegate	\$	33,313			The second second				Weller and the state of the state	ALL CALLER		and the second second		CONTRACTOR AND	\$ 247,000
Lovejoy Wastegate To Nagle Wastegate	\$	141,375						and the second second	472-0 X 10 2-0 X 10 X	Ste at 12078	Contraction of the second second	indeter		Contraction of the second	A CARLENSE AND A CARLEND
Capecroft Wastegete to Wagnor Reservoir	\$	96,688	F. 28				145			IN STREET		di ne mana mana		The second second	A CONTRACTOR OF STREET
Wagner Reservoir to Wagner Reservoir Wastegate	\$	126,750						A CONTRACTOR OF CONTRACTOR		ALL DIVISION AND DESIGNATION		Waldham Contractory	and define the second		Charles Manager Statistics of the
Wager Reservoir Wastegate to Bayley House Wastegate		17,875		\$ 17,	875	1.5. 1.1	1				(And the second se		CIERS ASSESS	的这种学校的时代	
Bayley House Wastegate to Pilot Hill Reservoir	\$	3,250										\$ 3.2	50	and the second	and the state of the second second second
Overall, Plot Hill Ditch	1925	404,825		\$ 40,	000 \$ 40,0	100 \$	40,000	\$ 40,000	\$ 40,00	0.\$ 4	0,000 5 40,0	00 \$ 40,0	00 \$ 40,0	00 5 44.6	25
Keisey Ditch															And a state of the state and should be
St. James Wastegate to Hwy 49	Ş	24,375						\$ 24,375	5						
State Hwy 45 to ("Offest View Ur.) Halls	and the state	11,375		这一时代的任何 是必须					A starting the start			and the second second	The second second		and the second second
(Forrest view Dr.) Fails to Irish Res. Wastegate	Ş	35,750	Constant of the local data			ALL TRUCK DESIGNATION				\$ 3	15,750				
Tude Dises Siches to Divin Pines Siphon		245,375	BIC DE	a lot in the set	and the second										
Twin Pines Siphon to Black Oaks Siphon	\$	35,750	Contraction of the							\$ 3	5,750				
Dukas Westernte to State Huer 102		13,120	Salar Vite	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		here is	Station and	and the second second					\$ 73,1	25	
Dukes wastegate to State Hwy 193	ð.	93,438	and the second second				Contraction of the American Street		\$ 93,43	18					
Mellows Wastagate to Kalsav Elume	8	0 105	and the second	Martin Martin	⇒ _£18,5	83	10-11 - 14 - 14 - 14 - 14 - 14 - 14 - 14	Design of the second		出情心。		Contraction of the second		a second second	A Call State
Falsey Flume Sintee to Story Mestacate	*	0,125	State State	and the second sec		A CONTRACTOR OF		Contractor and a second	Contractor and the	STRUCTURE OF STRUCTURES	Contraction of the Contraction o			\$ 8,12	25
Stork Wasteriate to Kelsey Reservoir	č	25 199	A STATE AND	AND AND AND AND AND	A SHE SHE	1122	a and a sole		Martin Constant		Sector Asia	and and the		Carl and	
(Verall Kelkey Dich		176 888		E 3700		WILLIAM DE LA COMPANY							A CONTRACTOR OF CONTRACTOR		
Spanish Dry Diggins Ditch	ALC: NO.	11,000	enine ning	and the second second second		inter the - 15			Carles and	A STATE		PLAN AND		Sector and	A State State
SDD Flume to End	\$	37 375	\$ 3	7 375											
Tavlor Mine Ditch	•	01,010	÷	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Taylor Mine Outlet to Shadle Reservoir	\$	36.563				\$	36 563								
Other							00,000								
Overall, GDPUD	\$	40,625	\$ 4	0.625											
Overall, GDPUD	\$ 100	284,375		Free Provident Party	Sul And States		a Shite			Sen Street and		No. 19 YO WE AVE	STATE OF STATE	IT IS A STATE OF	And and an other start
				A CONTRACT OF A	100 C		A STATISTICS	dad terration (Net)			and the star starting of the solution of			the literation of the second	The second s

Total Second Priority Reliability Measure Recommendations

Total

Recommendations \$ 5,280,438 \$ 527,475 \$ 306,663 \$ 644,663 \$ 381,413 \$ 189,663 \$ 348,101 \$ 358,663 \$ 383,538 \$ 251,913 \$ 222,788 \$ 195,913 \$ 296,725 \$ 33,535,938 \$ 3,208,475 \$ 4,617,663 \$ 4,158,663 \$ 2,721,413 \$ 5,523,163 \$ 348,101 \$ 358,663 \$ 383,538 \$ 251,913 \$ 3,825,788 \$ 195,913 \$ 296,725

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

Water System Capitol Improvement Costs and Reliability Measure

Item	FY '	17	FY	18	FY	19	FY 2	0	FY 2	4	EV 2	2	EV 2	2	EV 94	
Whitney Ct. Pressure Reducing Station				1.038.00.00-0							112			.5	FTZ4	
Oak Ln. Line Replacement	7	and the second second	PLE		\$	151,000	Sec.		Sec. 2			15. 4		of the Back	3	01997010
Shasta Rd. Line Replacement										1999 1700 Store 1, 1980 1	ANNO 14C 2080		WITCH AND		\$ 1	09,000
almaipais Rd. Une Replacement					\$	110,000			Al and a second		10 miles	E E	and the second	W. MILLING	1. 20	S S G
Pikes Peak Cir. Line Replacement		LE TOUR DE LE TOUR	-		\$	64,000										
Sarben Fank Line Replacement	. 1					1.17 2.	10- W									10000
Hancock Rd. Tank Tie		NAME OF BRIDE	101-30		121 142 1	NUMBER OF STREET	HIT ROOM									
Hotchkies Hill Sub Task Addition	in Salkin .		L. BOX	Contract Ma		444.000		Letter Call (12007		15.26	KUNIC 2		10000
Taverse Creek Rd Bonster Pumps	1. 11 4.1 19.1	We Water			₽/em	444,000	N.S. A.M.	and the second	CHECKE	NAME AND POST		IN STREET	NORMAL OF	NAME AND ADDRESS OF TAXABLE PARTY OF TAXAB	State and the	100 A 100
Chrysler Cir. & Roller Coaster Replacement	TTLE YOU		1.000	A PROPERTY AND		02,000	A WEAR	SAN STREET	Sella.	in the state	NAME OF	Sec. 4 All	11			70.000
Subtotal					\$3	343 000									\$ 0 \$ 0	70,000
Total Priority Reliability Measure Recommendations					\$3	.343.000									\$3,1- \$3,4-	30,000
Second Priority Reliability Measure Recommendations						10101000									φ a ₁ (30,000
Ditch System																
Up-Country Ditch																
Bacon Creek Pipeline																
Sinucture #1 to Structure #2	ale -	- TAR 12	1		BORNOR	The state	a de la		2.50	and the state	3-1-21	19. T 18 1	13.12 - MA	100 A 100	67.2	
Structure #2 to Structure #3												WT D36 9975 9948 2010		VITTIN SEATOPIC MILLION	Avenue francésia de la constante de	
Structure #3 to Structure #4	Hand			1		1 autor and a			NA.	E CAS	\$ 3	283,563	T. ANT	and and		
Structure #4 to Structure #5					\$	99,938										
Pensiocic intel/Bypass to Tree House Lane	Unitive			100.010		D. LESS			an an	and the second	COMPANY OF	1				190.00
Thee House Lane to Balderston Wastegate	STe III	0 100	\$	169,813		A WAR	1 A 197		NOP TILLANS		CONSCIMULT		through the			100 C 100 C 100 C
Ruckeye Conduit	÷	16 250	2	16 250		16 250		8,123		8,125		6,125		8,125		8,125
Eucleye Conduit In Schmeder Conduit	PAR	10,250	P STACE	10,250	-	10,200	- - 	10,200	معتقد	10,250	ې د د د د د د	16,250	\$	16,250	\$	16,250
Schmeder Conduit	S S	5 281	\$	5 281	alemente C	5 281	\$	5 291	C.	5 291	-	E 204	K MAN	E 004	S. S	E 004
Everal, Up Country Ditch	EVENING	Child Hotel	Course	OJN IN IN	The second	0,201	CHICK ST	0,201	River	5,201	-	5,201		5,201	-9 	5,201
Main/Pilot Hill Ditch (Main Ditch #1)	and the second second	A BALLANDER H	1.1.2.2.2		ALC: NO	A CHARLES AND A	N.M. 1975-1		A CONTRACT	C.C.C.A.M.		N.Stillers	120720	Add and the second	a constant	10,313
The Crails to Buffalo Hills Conduit					\$	65,000										
Bulfalo Hills Conduit	\$	7,983	5	7.963	- \$	7,963	S	7,963	\$	7,963	- 5	7.963	\$ 117	7,963	5.20	7,963
Spanish Dry Diggins Rd. to Taylor Mine Outlet				****							Marso and an	***********				and framework and
Cabin V astegate to Growlersberg Wastegate	in a la c	and the same			al line of	A CONTRACTOR		4,876	and a second	1250 324			En el la	and the second	The second	and the second
Summers Wastegate to Spools Wastegate									20000000000000000000000000000000000000				10000000000000000000000000000000000000	Net-Arther to Archite		
Spools Wastegate To Jackess Wastegate		10.0			N.E.		1.00		E.			M = 2	て書いた			
Jackass Wastegate to Greenwood Reservoir									\$	16,250						
Main/Pilot Hill Ditch (Main Ditch #2)		E 000		E 000	•	F 000		E 000								
SDD Diversion Flume to Blue Heron Falls	₽	5,363	Distant of	5,363	Þ	5,363		5,363	\$ 100000000	5,363	S INCLUSION	5,363	\$	5,363	5	5,363
Kaiser Pineline and Kaiser Sinhon				1512152/1510E	and maker		Canal Silv			and man in the second second	in Sector	State of the second		and the second	San	101 Have 1
Kalser Pipeline and Kalser Siphon	5	5.744	\$	6.744	ŝ.	6.744	150	6 744	S	6.744	5	6744	1	6104	A STATE	6744
Ford Siphon to ALT Water Treatment Plant		and the late	- 06			THE STATE			in the	A11.2.1	1000	and the second s	A. Y.A.		1000	W. T.
ALT Water Treatment Plant to Campground Wastegate		100000	2010	and the second	1120	The CARL PRIME	\$	139,750	Aria	The second	19712	""高智慧	17.23	1 asister	Contraction of the	and the second
Campground Wastegate to Willow Creek Wastegate					- American		and Assembly Ass		A ANALYCE III	- diaman article	a minimum di An	and the second second	noe any des	IN SCREEK STREET	restromation.	And the second
Willow Creek Wastegate to Baldridge Wastegate	\$	67,438	1000	25 X 10			10.12				1220		2 1			
Baldridge Wastegate to Bogus Wastegate																
Main/Pilot Hill Ditch (Pilot Hill Ditch)																
Dorman Wye to Knickerbocker Creek															\$ 1	31,625
Knickerbocker Creek to Pear Orchard Wastegate		in the second	1.6		5	a state		State of the	\$	86,938	1 10	A ANA	200	No - Do - Do		

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

Table 7 Water System Capitol Improvement Costs and Reliability Measure Recommendations (2005 Dollars)

Item	FY 05	-24	FY 05	FY	06	FY 07	F	TY 08	FY 09	FY 10	FY 1	1 FY	12	EV 13	EV	14 1	TV 16	FV 46	
Whitney Ct. Pressure Reducing Station	\$	108,000							\$ 108,000)			12	1110		14 1	1 15	FT 10	
Oak Ln. Line Reptacement	\$	151,000						Service and the service of the servi		and the state of the		CO. Statutes a server	ALC: DOCT	CONTRACTOR OF		an el concerno	States and a		2
Shasta Rd. Line Replacement	\$	109,000		Southern and the second s						1999-1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1		the second filling of the second second	and the second second		and the state of the	Sentite Sectore	All and a second second second	Contraction of the loss	
almalpais Rd, Line Replacement	\$	110,000	intersection	1200	And the second sec		1	and the second	A Start	State The State	D. Startes	CHARLES DE CA		Statistics.		1. 1. 1. 1. 1.		C. C. Martin Barrier	1000
Pikes Peak Cir. Line Replacement	\$	64,000											2000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 10		TA SHARE AND	COLUMN AND A	No. of Lot		
Real den Fark Line Replacement	5	97,000	and the second second					Children and	\$ 97,000	The Call of		A CONTRACTOR	1000000				200 AN 48		
Hancock Rd. Tank Tie	\$ 	113,000	al drive generative month						\$ 113,000)								CONTRACTOR AND	an 1997.
Valabilias VIII Sub Task Addition	2	836,000	distant shirth				1	And And And And And		and the state of the					\$	836,000			
Hotchikiss Hill Sub Tarik Adoluon	2.	444,000		-					and the second										
Charles Crock No. Dooster Pumps		62,000				ALL A		E & Balas - Say		And the second state				2				Careto A	ather and
Subtotol		570,000						2								10 S 10 S			
Total Priority Pallability Measure Pasammandations	\$ 73,	804,000			700 000				\$ 3,778,000)					\$3,	,603,000			
Second Priority Reliability Measure Recommendations	a 10,	209,500	\$ 726,000	÷.	786,000	\$ 764	4,000 S	\$ 1,000,000	\$ 4,857,500	1					\$3,	,603,000			
Second Phonty Reliability Measure Recommendations																			
Union System																			
Basan Creak Pinelina		0EE 40E																	
Structure #1 to Service #2		0 750		AND STOL	States and states		and the second	\$ 255,125	Seal of the second second	Contraction of the second second									
Structure #2 to Structure #3	S .	300 750	\$ 300 750	The second	and the second			GALL PRINTING	100 M 100 M 100 M	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							5 9,750		
Sinchra 43 h Structure 44		293 593	\$ 355,750	10.32		States and		a state of the second se		CONTRACTOR IN A DECISION OF		TO BE REAL VIEW OF STREET	A CONTRACTOR	Sector Providence			THE DESIGN OF STREET, STRE		and the second se
Structure #4 to Structure #5	Ŝ	99 938		t stallas	a second and the second second		an it at an	Concession and	to the second	The survey and a second	Sec.		Contraction (194)	Carlo Arth					
Penstock Inlet/Bypass to Tree House Lane	STORES	43 813		il with the	A MARINA CALLS	IN Star Starse ET	制修改建分划的	A Sector Management		Contraction of the		A CONTRACTOR OF THE	110 000				and south the second second		and the second
Tree House Lane to Balderston Wastegate	\$ ·	169.813	The Restored States			Section and						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	143,013		0.0-10-201			in diale i	W
Sand Trap Siphon Canyon Creek Condult	5	162,500	\$ 8 125	550	8.125	5 8	125 3	8 125	\$ 8 125	S 812	E S	8 325 8	2 170	C C C C C	1-12 E	0 4 18 33	N		RAPH
Buckeye Conduit	\$ 3	325,000	\$ 16,250	\$	16,250	\$ 16	.250 \$	16.250	\$ 16,250	\$ 16.25	0 \$	16 250 \$	16 250	\$ 16	250 €	16 250	0,120	a 0, 5 16	143
Buckeye Conduit to Schroeder Conduit	\$	39,813	A CARLENDER	A STATE	100000	Sec. 1	14.1 C AL	We share Artest			NUMBER	10,200 \$	NASMAG	4 10,	200 0	10,200	0,250	-\$ 10,	,250
Schroeder Conduit	\$ 1	105,625	\$ 5,281	\$	5,281	\$ 5	.281 \$	5.281	\$ 5,281	\$ 5.28	1 \$	5 281 \$	5 281	\$ 5	281 \$	5 281	5 284	¢ 5	201
Overall, Up Country Ditch	\$	50,375	La constantino de la	101-10	Sec. Cal	1.110.25	Just 1	Mar Anna Stal	ANT PLANT DUNING	Children and the	And statistics	A CONTRACTOR OF THE	0,201	THE PORT OF		5,201	9 3,201		201
Main/Pilot Hill Ditch (Main Ditch #1)							When you have the sector					ities that an initial same			SAMPLE STORE		史書においていたので	al and there is	
The Crails to Buffalo Hills Conduit	\$	65,000																	
Buffalo Hills Conduit	\$ 1	159,250	\$ 7,953	5	7,953	\$ 7	963 \$	7,963	\$ 7,963	\$ 7,96	3 \$	7,983 \$	7,953	\$ 7.	963 \$	7.963	7 983	\$ 7	963
Spanish Dry Diggins Rd. to Taylor Mine Outlet	\$	8,125								and the second second		and the second second second			\$	8,125			
Cabin Wastegate to Growlersberg Wastegate	\$	4,875			and the						- 11 - T					and the second party of the		a Strant	Zin C
Summers Wastegate to Spools Wastegate	\$ 3	336,375				\$ 336	,375						Providence in the state of the	ana manan manan m					WARRAN W
Spools Wastegate To Jackess Wastegate	5	97,438					9 - Protection		1. A.	A CALLER AND A CALLER	\$ 57 1	97,438			100000		Sil Contract		
Jackass Wastegate to Greenwood Reservoir	\$	16,250																	
Main/Pilot Hill Ditch (Main Ditch #2)						2 ¹ 2			a.			**							
SDD Diversion Flume to Blue Heron Falls	5 1	07,250	\$ 5,363	Ş	5,363	\$ 5,	,363 \$	5,363	\$ 5,363	\$ 5,36	3\$	5,363 \$	5,363	\$5,	363 \$	5,363	5,363	\$ 5,	363
Sale rieron way Fails to Kaiser Siprion	2	84,030		a de la compañía de la	Sec. Anna			and the second	and the second			Constant Section		Mar Marrie	1 7		83,688		
Kaiser Pipeline and Kaiser Siphon	P 1	24 975	C TAA	C.		William Part	743 5	6 7/4	A CONTRACTOR OF STREET	\$ 164,93	8	10 - 10 - 20 - 20 - 20 - 20 - 20 - 20 -	and the second second			ALC: NOT COME		-	
Ford Siphon to ALT Water Treatment Plant	C. C	9.029	0,100	Sec. Sec.	0,444		144 . 4	0,794	0,144	3 0,74	Contraction of the second	5144.5	0,144	3 0,	144 510	0,/44	6,/44	\$ 8,	744
All T Water Treatment Plant in Companying Westernets	÷	30,350	And the second second	No.				A STATISTICS OF A STATISTICS				No. of the South Street	a water alter	φ 8,	330	Not seen			
Camparound Wastegate to Willow Creek Wastegate	\$ 3	51,813				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in the set	Section of the	A CONTRACTOR OF THE			C C	150.000	\$ 150	2 000	51 813		The second second	S
Willow Creek Wastegate to Baldridge Wastegate	S	67.438	Hard Room	15		A HE S	A More than	STATE AND A			en al antigene		130,000	a 100,	000 p	31,013	The second s	NELSARGUERS	61333
Baldridge Wastegate to Bogus Wastegate	\$	24.375		S	24.375				and the second second	Add Mannas CAR				Constant and the	the first of				Prove State
Main/Pilot Hill Ditch (Pilot Hill Ditch)	15 I																		
Dorman Wye to Knickerbocker Creek	\$ 1	31,625																	
Knickerbocker Creek to Pear Orchard Castegate	\$	86,938	- Carlos			1 1 1 1		CONTRACTOR	10000000		10-1-2	10 - C - 51 - 51	ALL ALL		Mark State		BEAKS	No Part Friday	253

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xis

Water System Capitol Improvement Costs and Reliability Measur

Item	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FV 24
Willow Creek Wastegate to Baldridge Wastegate								1127
Main Ditch/Pilot Hill Ditch (Pilot Hill Ditch)								
Dorman Wye to Knickerbocker Creek								
Lovelov Wastegate to Nagle Wastegate	and the second statement of	and the second second	All California and	A State Property of	And the second second	CALL NO 20 CONTRACTOR	terre terre and a set	CONTRACTOR OF THE OWNER
Nagle Wastegate to Capecroft Wastegate	ESSERIES AND	C. Martin C. Martin Martin		a fight Of Station Kapping	WINDOW WINDOW AND AND A POST	Children Walk And		The second states of the
Wetner Reservoir to Wanter Reservoir Westenate	Western Kreinen und	Comparison of the	AND THE REAL PROPERTY.	A STATISTICS OF A STATISTICS	NU STANDARD STAT	The second s	the second second	CALIFORNIA CONTRACTOR
Kelsey Ditch (Kelsey Ditch #1)	A STATE OF THE PARTY	C. Manager and C. Market	and the second se			stead and the states of the		
The Crails to St. James Wastegate								
Times Montester in Clara History (07		La the second		ALTER AND A DOMESTIC STREET	Cardina Cardon Cardon Ca			CONTRACTOR OF THE
Forest View Drive Folls to Irich Des. Westerste	The second second second	A Marine Marine State	and any transferration	and the state of the	A CONTRACTOR OF THE	GRAND STATES		
Kolem Ditch (Kolem Ditch #2)								
Plack Oak Sinhan to Duken Westanate								
Diack Oak Siphon to Dukes Wastegate	11	A VINAS TREAM MARINE	CANCER CONTRACTOR	Constant South States	A DESCRIPTION OF THE OWNER		AND DESCRIPTION OF THE OWNER	COURSE AND
Notes Wastagate to State Highway 185	ALL	SUBSCIES MAD	and the second second	200 A 100			Alexander of	ALL DO STOLED
Mellows Wastegate to Kelsey Flume	C. C	No. of Concession, Name	THE REAL PROPERTY OF	CONTRACTOR NOW INCOME	With the second second second		and some state of the second state of the	the second s
Rusey Flane to Stork wastegate			and and Dec	ALL STATISTICS	and the second second	Carl Mar City	NOT NEEDED FROM	and the second second
Stork wastegate to Keisey Reservoir								
Subtotal								
water System								
Aubum Lake Trails Service Area								
Greenwood Rd. Feed from WL	C-SAM NOT-STOPPEN	IN CONTRACTOR	State State State State	AND A CONTRACTOR OF A DESCRIPTION	CARGO IN ALL CARGONS			
Angel Come Ct. People: Burge	atim of the shorten	AND AND THE	£ 400 000	With the second states and	the state of the state	and the second second	0	\$ 833,000
Angel Camp Ct. Booster Pump	Constant of the second s		\$ 102,000					
FIRITWAY 193 CIOSS 118-BITTIKS LIN PREPIACE	Contraction of the	A Contract of the second	D 207 300		un a demostative	A MOREL AND	and the president	
Gravity Raw Water for Golf Course	THE REAL PROPERTY OF	AND STREET, ST				Support the second second	the second second second	Constant and the second second
Digger i ree CL to westview i n. Tie		- Martin and Company			A LANA CARD		Carl Stranger	
Indian Rock Road Main Replacement	No. of the local division of the	S SHOW S COLUMN S OF	\$ 66,000		Ward Street and Street	and the second second	And the second second second	A COMPANY OF THE OWNER OF T
Agrienty Acte Koad PRV-Cross Tie	West Hard And And	en Calificial		and the second				的现在分词
Catecroft Road Main Replacement			\$ 209,000					
Highway 49-Phot Hill Loop		REAL PROPERTY	Sel Cold Selection	「「ない」」とは目的	a strategy and	A CARGE AND		\$ 387,000
Salmon Falls Road Main Replacement	VENERAL MARKET	No. of Concession, Name	\$ 514,000)				la transmission and a start of
Second Deer Ravine Tenk, 0.6 MG				Bart to Lite		and the second second		a Ta Marana Sector Plan mila a
Cherry Hills Tank, 0.4 MG			\$ 787,000)				
Walton Lakes Service Area								
Citabria Ln. Loop Tie					Contraction of the local data			No. 10 Concerning and the second second
Fain Ln. Extension			E General Anna Anna Anna Anna Anna Anna Anna An	and the second second		A second second	and strength	120.00
Buffalo Hill Rd. Line Replacement			\$ 96,000)	WALKER OF THE OWNER	Council in Sec. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	a management of the state	ALL NE STATE LE STATE STATE
Crulet Place Loop Tie	in a state of the		and the second second	and a share of the	and a second	a sector for-	the strategy of	\$ 59,000
Quiet Place Remove Check Valve								
Holloway Dr. Line Replacement			\$ 74,000			Sales 18 Ass		
Longview Ln. Line Replacement			\$ 270,000				A COLUMN STREET, STREE	And in case of the local division of the loc
Reservoir Rd., SDD, Hwy, 193 Replacements	Salar State	and the second	ALC: NOT A REAL PROPERTY OF		to to a substance			AND
Silent Meadow Ln. Line Replacement	o habele in the later	CONTRACTOR OF	\$ 127,000		ATT IS NOT THE OWNER.	COLUMN STREET	and the second states and the	A CONTRACTOR OF A CONTRACT
Serromo Rd, Line Replacement	A CONTRACTOR	Contraction in the		and the states			Western Press	5 631,000
Black Oak Mine Rd. Proposed Improvement		and the second second		-		and the second second second	and the second second	\$ 59,000
Greenwood Rd. Main Replacement		STREET, HOLEN		Sale Sale Sale		or the Association of the		ASIG DECEMBER OF
Traverse Creek Rd. Line Replacement	and state of the local data of the			Contraction of the local division of the loc	and the state of the state	And the second second second	Concerned on the owner of	\$ 454,000
Bayne Rd. Line Extension	f and an and a start of the			Ch e L L A	and the second second	the states of the	Ale Andreas	A Real Provention
Bayne Rd. Tank			and a state of the second				An other Designed and the second s	1000 1000 1000 000 000 20 20 20 20 10 20 10 20 00 10 20 00 00 00 00 00 00 00 00 00 00 00 00
Lazy Brock Trl. Line Replacement				and the second second	AR SOLUTION			\$ 128,000

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_system_capital_improvement_program_costs.xls

 Table 7

 Water System Capitol Improvement Costs and Reliability Measure Recommendations (2005 Dollars)

Item	FY	05-24	FY	05	FY (06	FY (17	FY	08	EV 09		EV 10	EVIA	57.40	51440	-		
Willow Creek Wastegate to Baldridge Wastegate	\$	80,000			\$	20.000	\$	20.000) \$	20.000	\$ 2	0.000	FTIU	<u>FT (1</u>	FT 12	FY 13	FY 14	FY 15	FY 16
Main Ditch/Pilot Hill Ditch (Pilot Hill Ditch)					·			,		20,000	• •	.0,000	, ,					23	
Dorman Wye to Knickerbocker Creek	\$	22,000	\$	22,000															
Lovejoy Wastegate to Nagle Wastegate	\$	81,000	\$	81,000	Constanting of the local division of the loc	Star Star	1213			Unique Se		1000	ALL TRUCK	1994 04 19 19 19 19 19 19 19 19 19 19 19 19 19	Contraction of the second second	a second second second second	and the second second	CANCER LINE OF THE OWNER	A REAL PROPERTY AND A REAL PROPERTY.
Nagle Wastegate to Capecroft Wastegate	\$	4,000	\$	4,000		· · · · · · · · · · · · · · · · · · ·			CROWN A USE		A DAY IN COLUMN	~ *	a service of the service of the	A THE R AND A THE R. P. LEWIS CO.			The second s		
Wagner Reservoir to Wagner Reservoir Wastegate	\$.28,000	\$	28,000				10 0		W Star								Contraction of the	
The Crails to St. James Wasterate		400 000																	
The oralis to St. James Wastegate	2	136,000	Station 11		\$	136,000	10033440			Contractive provinces		-							
Forest View Drive Fells to Irish Res. Wasteraste	c	75.000		- A.	Children of	75.000		1	5	8,000	and a set				ALL PROPERTY AND	17 17 A.		Les Charles Parts	
Kelsey Ditch /Kelsey Ditch #2)	\$	75,000			Þ	75,000													
Black Oak Sinhon to Dukes Wasterate	\$	51 000	c	51 000															
Dikes Wastegate to State Highway 193	5	125 000	-9 	125 000	101540	State State	THE OWNER				THE REAL PROPERTY OF		Multimeter and	这个时间的 一次一次时间的	NE DUM BURNING		Contract Sectors and the sectors of		
Mellows Wastegate to Kelsey Flume	S	95,000	N. Market	120,000	and a start	Station of States		A CONTRACTOR	2110	D. John Sterre	6 0	E 000	and the second	2 MA	and the second	China Anti ad al and		Contrate Section and	
Kelsey Filme to Stork Wastedate	S	48 000	19		PLEIO	Washing and	10.	28 000	ALL PROPERTY		A ST	5,000		the region of the second	THE REAL PROPERTY AND	IN THURSDAY AND AND AND	The second second second second		Contract of the second second second
Stork Wastegate to Kelsey Reservoir	Ŝ	120,000	S	120,000		A				the court of		2.11.5.11	hand half all all all all all all all all all	and the second second		Contraction of the second		100 100 100 1000	The second second
Subtotal	\$	4.355,500	s	726.000	\$	786.000	\$	764 000	\$1	000 000	\$107	0 500							
Water System			2			,				,000,000	\$ 1,011	3,000							
Auburn Lake Trails Service Area																			
Greenwood Rd. Feed from WL	\$	308,000									\$ 308	8.000							
Greenwood Rd, Main Replacement	. 5	833,000			111			ALC: NO	1	4	1			a training of		0.000		A MERCENSION	THE REAL PROPERTY AND
Angel Camp Ct. Booster Pump	\$	102,000						*****				and a second			a design of the second second second				The second second second second second
Highway 193 Cross Tie-Brinks LN Replace	\$	267,000						1		HALL NO	C-1	-	CHARLES AND		and the second s		States and	AL ACTION OF	
Gravity Raw Water for Golf Course	\$	413,000									\$ 413	3,000			Chine II was a contain Dootto	NUMBER OF A STREET, ST	No. of March 1999	Non Al an and a should be should	Construction of the States of
Digger Tree CL to Westview Til. The	\$:	40,000			1.				1200					L SALE AND		the start	\$ 40,0	000	
Indian Rock Road Main Replacement	\$	66,000																	
Cherry Acre Road PRV-Cross Tie	- 5	160,000	il. and	16			di P		Sec. 16.		13					a village og de	\$ 160,0	00	AND STATES OF THE STATES
Catecroft Road Main Replacement	\$	209,000																	
Highway 49-Pliot Hill Loop	177.25	387,000				anna y	in the second	4					IL SILS			Sector Charles	STOLEN STOLEN	A CONTRACTOR OF A CONTRACTOR	With the state of the
Salmon Falls Road Main Replacement	\$	514,000	STON IN	CONTRACTOR DOLLARS	MICHINAMOSA			A CONTRACTOR OF											
Second Deer Kavine Tank, U.S.M.G	3	1,985,000		anti yata '	in contract	mod	1	1 50 24.72	and in the	aged to granting	\$ 1,965	5,000		The state of the state				A STATE OF A STATE	
Cherry Hills Tank, 0.4 MG	\$	787,000																	
Walton Lakes Service Area		00.000															12		
Citabria Lin, Loop Tie	چ اللغ اللغ	92,000	the said of	and the second second			No. of Concession, Name	Water States			100	2 2 2 2 2 2	and the second			And the second second	\$ 92,0	00	The second date of the second second second second
Buffalo Hill Rd. Line Replacement	4 5	06,000	Sections	and Fallent	en al ansi		N. CAR		A Constanting		\$ 309	9,000		and Shall		1/ FID- S454	AND STREET	the second second	Contraction of the second
Sullar Plana Loon Te	-	50,000	ALC: NO	Constant States of the	20403	DE TARGENIN	COLUMN TWO IS NOT	A CONTRACTOR OF	(TERMINAN)	New Course	No. of Concession, Name	10000000	COLUMN TWO IS NOT					AND IN COMPANY AND INCOME.	The second second second second
Oulat Place Remove Check Valve	S	5 000	No. or a		a de la come de	and an order	- Anna - A		in remaining		¢ F	5.000		a true is the same of	2	Same and Stratt	A TELEVISION AND A STATE	A Distance	Addition of the second
Holloway Dr. Line Replacement	IN STATE	74.000			1000	So Statute			Section C	ALL DESCRIPTION		3,000				A REAL PROPERTY AND A REAL PROPERTY AND A		State State State	The second s
Longview Ln. Line Replacement	Ŝ	270.000	10 minut	Substanting in the Market			STATES OF	Start month	1001 510	the second second		A.1.2		Manual And And And			ALL PLANE IN THE PART	And the second	A SWALL AND A S
Reservoir Rd., SDD, Hwy, 193 Replacements	. 5	917.000	40.00			A. Sant	stol _		SWEEKS 12	COL STATE		1927 - P	ALC: NO.	STATE PARTY		and the second second	\$ 917.0	11	The Manual of States of States of
Silent Meadow Ln, Line Replacement	\$	127,000	CARGE CAR	Constitution and President		a history and a		a la de la constata	No. of Concession, Name	- diaman and a second	STATISTICS STORE	an Mineson Mine	A A A A A A A A A A A A A A A A A A A				1	A CONTRACTOR OF THE OWNER OF	
Sanromo Rd. Line Replacement	\$	531,000	1721			1. S. 9. 1. 2.1		And A TH	12 grad		ES ES	State of				The second second	and contain		
Black Oak Mine Rd. Proposed Improvement	\$	59,000				and a summing a	11979 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			111.00000000000000000000000000000000000								and a second	
Greenwood Rd. Main Replacement	\$	208,000-	in and				(#400147			No. Contract	Section .		en al la company de la com La company de la company de			CALCOLUS STRUC	\$ 208,0	00	C C C C C C C C C C C C C C C C C C C
Traverse Creek Rd. Line Replacement	\$	454,000												**************************************					AND DESCRIPTION OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER.
Bayne Rd, Line Extension	\$	405,000			C HELD	-Line and a set			La ser se		\$ 405	5,000	and the second second				a free for the second	and the second second	ere- of second
Bayne Rd. Tank	\$	1,350,000															\$ 1,350,0	00	
Lazy Erock Tri, Line Replacement	\$	128,000	- T	in the last	1 Sector	and the second	North Contraction	15 14 14	ST EL		North State			C*12		Contraction of the second	Sector 1	Contraction of the second	

 $\label{eq:list_stability_charge_study} water_system_capital_improvement_program_costs.xis \\$
Table 7

Water System Capitol Improvement Costs and Reliability Measure

Item	97	FY 17	FY 18	FY 19	FY 20	FY 21	EY 22	EV 22	EV 24
Capital Improvements						1141	1122	FT 20	FT 24
Water Treatment									
Greenwood Lake Water Treatment Plant									
Watton Lake WTP Raw Water Bunasa		CONTRACTOR OF		STATE OF THE OWNER OF THE OWNER		A CONTRACTOR OF THE OWNER	CONTRACTOR DATA	A REAL PROPERTY AND INCOME.	NAMES OF TAXABLE PARTY.
Inspection of Treated Water Storage Tanks	and the second	A Start marge	and the second second	The setting the setting		the second section of the second			
Walten Lake Outlet Works	Service Suize		A CONTRACTOR	MULTINE THE CASE AND	Contraction of the second	and the second second	And the second second second	CONTRACTOR OF THE OWNER	The second second second second second
Subtotal	and the second second	11 (11) (11) (11) (11) (11) (11)	W. State		A A A A A A A A A A A A A A A A A A A				
Distribution System									
Hwy 193/ Sliger Mine Mainline Relocation									
Gardian Park Line Replacement				C. T. M. MARRIE		A THE REAL PROPERTY AND		ENANTANA	THE REAL PROPERTY OF THE REAL PROPERTY.
Garden Park PRV and ACV			AV IN A CONTRACTOR	HOM AND	in the second	a surran and	ALL CARE AND AND A	and the local statement	and the second states
Sliger Mine Road PRV Replacement	14 12 Mar	The second second second	to sense and			NIC 280 CRIC INVESTIG	SALL SHELL HAVE A	Contraction of the local division of the	Additional and the second state
Tank Telemetry Enhancements			NAME IN A DECO	TANDO CAN SCOULS	A CARLES AND A CARD		O.S. CALMART	The second second	
Subtotal									
Conveyance System									
Walton Lake Dredging									
Up-Country Reliability Measures		The second states	A CONTRACTOR		A CONTRACTOR			Service Barristory	COMPANY THE PARTY
Cabin Waste Gate Replacement	in the two set of a			Contrast of the second second				of the Astrony of the International	a state of the second second
Blue Heron Falls Conservation Plan		AT PERSON AND AND	State Production		THE REPORT OF THE PARTY OF	NOT MORE THE			L'ANTE DISTORT OF CALL
Kaiser Siphon Replacement				OK I KOUS SHOULD BE	Sur Coldmand of Color		Contraction of the local division of the loc	and the state of the state	and the second se
Subtotal									
Wastewater									
Station 16 Enclosure									
Manhole Sealing		Contraction of the	S. Same marked	Tel and the second second	And the second second	ALL ALL			
Collection System Repair	Constant of the second se		and the second se	And a state of the local state of the state			and a state of the state of the state	and the start whether the	
Subtotal									
Total Capitol Improvements									
Priority Reliability Measure Recommendations									
Ditch System									
Up-Country Ditch									
Structure #1 to Structure #2									
Structure #2 to Structure #3			and the left of	A AND A A A A A A A A A A A A A A A A A			STREET,		AND MADE AND A DECISION OF
Structure #3 to Structure #4	Burner Editoria	and the state of the second		And the second second second	And the second second	and the second	and the second second second		and the second second
Structure #5 to Structure #6	THE PARTY NEWS	And I want the state of		N. W. Starting and Starting	The second second second	THE REAL PROPERTY OF			No. of Concession, Name
Balderston Wastegate to Sand Trap Siphon	NAME AND ADDRESS OF		CAN CONTRACTOR		ale man har har been a dealth a she		and the second second second		
Walton Lake		and a standard	and a start		all and the second	Carles and the	and in provident 2017 at		Cold Taylor State
Buckeye Conduit to Shroeder Conduit	and the second large t	CARGONIA DATE TO SECO	Contract Contractor In Contra	Advertising a mean second of			Distant States and States and States		
Main/Pilot Hill Ditch (Main Ditch #1)									
Buffalo Hills Conduit to Spanish Dry Diggins Road									
Spanish Dry Diggins Road to Taylor Mine Outlet	All and the second second	Cold State and a res					A CONTRACTOR		and the second in the
Taylor Mine Outlet to Cabin Wastegate									
Cabin Wastegate to Growlersbarg Wastegate		and the second se							
Growlersberg Wastegate to Summers Wastegate									
Suminers Wastegate to Spools Wastegate			Starting - Harris		ALCONT OF LAND	State Store	A CARLES AND	the set of the set	
Spocis Wastegate to Jackass Wastegate									
Jackass Wastegate to Greenwood Reservoir			Se entrest.		No de la como				
Main/Pllot Hill Ditch (Main Ditch #2)					2000 III 200000 III 2000 III 2000				
Blue Heron Falls to Kaiser Siphon									
Keiser Siphon to ALT Water Treatment Plant		100					Contraction of the second	Sec. 1	

V:\52840\active\84025003\gdpud_capita[_facility_charge_study\water_system_capital_improvement_program_costs.xis

Table 7

Water System Capitol Improvement Costs and Reliability Measure Recommendations (2005 Dollars)

Item	FY	05-24	FY 05	FY (06	FY 07	FY	08	FY	09	FY 10	EV 11	EV 12	EV 13	EV 14	EV 4E	EX 40
Capital Improvements													11 12	1715	F1 14	PT 15	PT 10
Water Treatment																	
Greenwood Lake Water Treatment Plant	\$	6,250,000	\$1,000,000	\$ 3.	000,000	\$ 2.250.000)										
Walton Lake WTP Raw Water Bypess	\$	250,000	\$ 100,000		150,000	No. Par Villa	HE CON		E P	the state of the		a state of the state	ACTIVITY OF A		Contraction in the	Y Xou The Barrison	
Inspection of Treated Water Storage Tanks	\$	100,000		\$	30,000	\$ 30,000) \$	40.000	And the state	The rest Hand Aver and		and the second second	And Adding of Control of State			a country of the star	and the second
Walton Lake Outlet Works	\$	50,000		\$	60,000			Carlon Contract	nan 12	Service Contractor	Area The Area State	CHICAN STATE OF	New York Party Party		AND IN ALL AND A STATE OF	COM SHIP A STREET	and the second
Subtotal	\$	6,650,000	\$ 1,100,000	\$3,	230,000	\$ 2,280,000)\$	40,000		AND NOT DEPENDENT	And An A Construction of the				and a second second		A starting the second second
Distribution System						10.000000000000000000000000000000000000		204000-0									
Hwy 193/ Sliger Mine Mainline Relocation	\$	450,000	\$ 450,000														
Garden Park Line Replacement	\$	125,000		5	50,000	\$ 75,000			1726	No. 2010	A STATE OF					The second second	an we and the second state
Garden Park PRV and ACV	\$	120,000		\$	40,000	\$ 80,000)						and the second				States - Henry and
Sliger Mine Road PRV Replacement	\$	50,000		mage		A CONTRACT OF A	\$	50,000	AND AND		Market Barris		这些是的这种问题 和学	- SHUR TO A ST	* Anna - State - State	CANSOL STREET	ALL ALL ADDRESS OF
Tank Telemetry Enhancements	\$	90,000					\$	45,000	\$	45,000			The Color of Sector Sector	and a state of the		Contraction of the local states of the	Watte Street and Water Street as an
Subtotal	\$	835,000	\$ 450,000	\$	90,000	\$ 155,000	\$	95,000	\$	45,000							
Conveyance System	0.20																
Walton Lake Dredging	\$	500,000	and an a second second second second				\$	500,000									
Up-Country Reliability Measures	\$	500,000	\$ 100,000	Ş	100,000	\$ 100,000	\$	100,000	\$	100,000				THE REAL PRINT		and the second second	
Cabin Waste Gate Replacement	\$	30,000	Contraction of the local division of the	HINDRENAMO	a successive the second	\$ 30,000)										
Bate Heron Halls Conservation Han	173	103,000	AND A DECK		a heading at	A STATE OF THE A	1		5	103,000	C. C.		S. MERCE		18 -		
Kalser Siphon Replacement	\$	100,000	\$ 100,000	20				121267121212	201	100000000							
Subiolar	\$	1,233,000	\$ 200,000	\$	100,000	\$ 130,000	\$	600,000	\$	203,000							
Station 16 Enclosure	e	50 000															
Manhole Saeling	-P	00,000	COLOR STREET	Concession of the	Collins and	\$ 50,000	Col 27 De avenue		7/8-3MM			tatus (Margan) distances inco	Contraction in the low ways		Manufacture and the Constitution of	and the second	Management of the second state of the second
Collection System Panais	4 C	25,000	¢ 5,000	CHARGE CON	E 000	£ E 000	Sec.	E 000	2	20,000			and the second second			Antonia Contra	1
Subtotel	ę	1 228 000	\$ 205,000	e e	105 000	\$ 195,000		5,000	ş	5,000							
Total Capitol Improvemente	ě 1	046 000	\$ 1 955 000	62	525 000	\$ 750,000		340,000	÷.	228,000							
Priority Polichility Mongure Percommondations		0,040,000	÷1,355,000	.	525,000	₽ 2,750,000	- a 1,	340,000	- a -	4/0,000							
Photo Sustan																	
Un Country Ditch																	
Structure #1 to Structure #2		549.000															
Stuciule #1 to Stuciule #2	چ 100	546,000					5	300,000	\$	248,000	and its factor is stated		No. of Concession, Name	NACESON AND DESCRIPTION OF ADDRESS			
Structure #2 to Structure #4	c	205.000			57002X2X00	\$ 205,000			an an		an are stronged		The state of the s	VALE VELOVI			
Shuching #5 in Structure #4		205,000		1000	205-000	\$ 303,000	Sector Charles	Negligeria				STATISTICS OF STREET		SCHOOL STREET, ST	A STATE OF THE OWNER OF THE		
Balderston Wastegate to Sand Tran Sinhon	S.	111 000			averada	Contraction of the second	C.	111 000			1312131314		ALL ALL ALL				A CONTRACTOR
Walton Lake	\$20	496.000		101-107	NUMBER OF C		S S	250.000		248 000	COLUMN STREET,	SCOLUMNS	NAME OF A COMPANY			Carlo Constant Carlos	
Buckeye Conduit to Shroeder Conduit	\$	85.000	\$ 85,000			States and the states of the			(M. 197	6-1010 L	A CONTRACTOR OF	the second second	A CONTRACTOR	and the second second		Carl State of State	A. C. Starting
Main/Pilot Hill Ditch (Main Ditch #1)	æ.,		• ••••••														
Buffalo Hills Conduit to Spanish Dry Diggins Road	\$	60.000	\$ 60,000														
Spanish Dry Diggins Road to Taylor Mine Outlet	S-	305,000	Sector (2 Sup 34	Contraction of the second	100	A STATISTICS		305,000			A CONTRACTOR OF THE OWNER	Margaret Sector	A DESCRIPTION OF THE OWNER OF		
Taylor Mine Outlet to Cabin Wastegate	\$	186,000				\$ 66,000	\$	60,000	\$	60,000		erm det de l'antito Solica d					A STREET CONTRACTOR STORE
Cabin Wastegate to Growlersberg Wastegate	\$	200,000	\$ 100,000	\$	100;000	- Contraction	10.1			1 Charles	10.10		A. Barristan				and the second second
Growlersberg Wastegate to Summers Wastegate	\$	11,000	Contraction of the local data				\$	11,000				and the second second second			and the second		
Summers Wastegate to Spools Wastegate	\$	93,000	\$ 30,000	5	30,000	\$ 33,000	and the second	N. S. S.									
Spools Wastegate to Jackass Wastegate	\$	7,500							\$	7,500							
ackass Wastegate to Greenwood Reservoir	\$	416,000	a franciska - s			\$ 200,000	. 5	218,000			and the second	ALL ALL ALL AND				Carlo State State	
Main/Pilot Hill Ditch (Main Ditch #2)		100000000		~	05 1000	e											
Blue Heron Fails to Kaiser Siphon	\$	84,000	\$ 20,000	\$	20,000	\$ 20,000	\$	24,000					No. of Concession, Name of Concession, Name			and a state of the state of the state of	and the same strength of the same strength of
Kalser Siphon to ALT Water Treatment Plant	\$	198,000	Carolina and Carol	ST	100,000	Constant and			\$	98,000	in the second					the state of the	

Table 6	
Water System Pipelines Replacement Cost (2005 Dollars)	

	System Wide	Replacement	Replacement
Pipe	Linear Feet	Unit Cost	Cost
4" AC	42130	\$37	\$1,568,313
6" AC	175142	\$48	\$8,388,928
8" AC	42068	\$58	\$2,459,333
10" AC	36484	\$63	\$2,305,644
12" AC	42346	\$80	\$3,384,071
6" DI	3981	\$48	\$190,681
4" PVC	50771	\$37	\$1,889,979
6" PVC	235640	\$48	\$11,286,653
8" PVC	85394	\$58	\$4,992,210
10" PVC	10359	\$63	\$654,648
Total Water	724315		\$37,120,461
System			
Pipelines			

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_sytem_replacement_costs.xls

Table 5

Water System Structures Replacement Cost (2005 Dollars)

					WTP C	apacity
<u>.</u>			Construction	Replacement		·····
Structure	Description	Location	Date	Cost	% Availability	\$ Available
2.3 MGD WTP	Walton Lakes	Balderston Road	1974/1992	\$ 6,900,000	21.7%	\$ 1,500,000
2.3 MOD WTP	Auburn Lake Trails	Sweetwater Trail	1968/1992	\$ 6,900,000	4.3%	\$ 300,000
Subtotal Wate	r Treatment Plants			\$ 13,800,000		\$ 1,800,000

Note:

1. Percent availability is the capacity available in the WTP divided by the operating capacity.

			Construction	R	eplacement
Structure	Description	Location	Date		Cost
0.5 MG Tank	Angel Camp	Angel Camp Court		\$	776.602
0.25 MG Tank	Deer Ravine	Deer Ravine Court		-	388.301
0.47 MG Tank	Pilot Hill	Catecroft Lane		\$	730.006
0.06 MG Tank		Black Ridge Road	Contraction of the	-	93.192
0.06 MG Tank	Hotchkiss Hill	Wentworth Springs Road		\$	93,192
0.2 MG Tank	Spanish Dry Diggins	Reservoir Road	Contraction of the second	Ś	310.641
0.3 MG Tank	Black Oak Mine	Black Oak Mine Road	and the second	\$	465,961
0.2 MG Tank	Garden Park	Ranier Road		\$	310 641
0.21 MG Tank	Kelsey	Red Berry Hill Lane	Contraction of the Contraction	\$	332,386
0.6 MG Tank	Walton Lake Cleanwells	Sweetwater Trail	1974/1992	\$	931 922
0.06 MG Tank	Hotchkiss Hill Subtank	Chipmunk Ridge Road		S	93 192
Pump Station		Black Ridge Road		- 9	123 400
Pump Station		Chipmunk Trail		\$	123 400
Pump Station		Reservoir Road		S	123 400
Subtotal Tank	s and Pump Stations			S	4 896 235

V:\52840\active\84025003\gdpud_capital_facility_charge_study\water_sytem_replacement_costs.xis

Table C2 Storage Tank Unit Cost Estimation

	Engineer's	Teichert		
Storage Tank	Estimate (Lump	Construction	Average Cost	Average Cost
(gal)	Sum)	(Lump Sum)	(Lump Sum))	per Gallon
87400	\$ 85,000,00	\$ 186,500,00	\$ 135,750,00	\$ 1.55

Source: Bid Summary Sheet for Turlock Airport Rehabilitation, July 28, 2005.

Pipeline Unit Cost Estimation

		En	gineer's	Т	eichert		Granite	Ave	rage Cost	Adju	sted Cost
GDPUD Pipe	Replacement	Estir	nate per	Con	struction	Co	nstruction	per l	Liner Foot	per L	inear Foot
Diameter	Pipe	Line	ear Foot	per L	inear Foot	per l	_inear Foot	(200	2 Dolars)	(200	5 Dollars)
12"	12" DI	\$	59.40	\$	81.00	\$	79.00	\$	73.13	\$	79.91
10"	10" DI	\$	49.50	\$	74.00	\$	50.00	\$	57.83	\$	63.20
8"	8" DI	\$	33.00	\$	74.00			\$	53.50	\$	58.46
6"	6" DI	\$	27.50	\$	74.00	\$	30.00	\$	43.83	\$	47.90
4"	4" DI									\$	37.23

Source: Bid Summary Sheet for Hazel Ave./Sierra College Blvd., May 30, 2002. Notes:

1. The Granite Construction cost for 8" DI pipe was unreasonable and not used.

2. The Adjusted Cost per Linear Foot for the 4" DI pipe was determined by averaging the price change from 12" DI pipe to 6" DI pipe.

3. 2002 costs adjusted to 2005 dollars using 3.0% inflation rate.

Table C1Water System Replacement Cost Data

Water Storage Tanks

Capacity (gal)	Description	Location	Repla	cement Cost
500,000	Angel Camp	Angel Camp Court	\$	776,602
250,000	Deer Ravine	Deer Ravine Court	\$	388,301
470,000	Pilot Hill	Catecroft Lane	\$	730,006
60,000		Black Ridge Road	\$	93,192
60,000	Hotchkiss Hill	Wentworth Springs Road	\$	93,192
200,000	Spanish Dry Diggins	Reservoir Road	\$	310,641
300,000	Black Oak Mine	Black Oak Mine Road	\$	465,961
200,000	Garden Park	Ranier Road	\$	310,641
214,000	Kelsey	Red Berry Hill Lane	\$	332,386
600,000	Walton Lake Clearwells.	Sweetwater Trail	\$	931,922
60,000	Hotchkiss Hill Subtank	Chipmunk Ridge Road	\$	93,192

Note:

1. Assume 0.06 MG capacity for tank on Black Ridge Road.

Water Treatment Plants

Description	Location	Daily Capacity (MG)	Replacement Cost
Auburn Lake	-		
Trails	Sweetwater Trail	2.3	\$6,900,000
Walton Lakes	Balderston Road	23	\$6,900,000

Note: Assume \$3.00 per gallon produced.

 $V: 152840 \verb+ active+84025003 \verb+ gdpud_capital_facility_charge_study+ water_sytem_replacement_costs.xls+ table to the set of the se$

APPENDIX C: Water System Replacement Costs

Stantec CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007



V:\52840\active\84025003\admin_draft\jan_2007_update\rpt_admin_dft_charge_study_mar2007.doc

Stantec CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

6.0 References

- 1. 2004 El Dorado County General Plan: A Plan for Managed Growth and Open Roads; A Plan for Quality Neighborhoods and Traffic Relief County of El Dorado Planning Department.
- 2. El Dorado County 2005: Economic and Demographic Profile, 2005 Center for Economic Development, California State University, Chico <u>www.csuchico.edu/cedp</u>
- 3. El Dorado County General Plan: Final Environmental Impact Report, 2004 EDAW, County of El Dorado.
- 4. El Dorado County Water Demand Forecast; EPS #11448, June, 2003 Economic & Planning Systems.
- 5. Georgetown Divide Directory <u>www.georgetowndivide.com</u>
- 6. Georgetown Divide Public Utility District: Basic Financial Statements, June 2004 GDPUD.
- 7. Georgetown Divide Public Utility District: Five-Year Capital Improvement Program, May 2005 GDPUD.
- 8. Manual M26, Water Rates and Related Charges, American Water Works Association.
- 9. Nelson, Arthur C., System Development Charges for Water, Wastewater and Stormwater Facilities.
- 10. Nevada Irrigation District: Water Service Regulations http://www.nid.dst.ca.us/Water%20Service%20Regulations%20March%202005.pdf
- 11. Raftelis, George A., Comprehensive Guide to Water and Wastewater Finance and Pricing
- 12. U.S. Census Bureau. Table P1 for the 1990 and 2000 Census counts.
- 13. Water Resources Development and Management Plan (draft), June 2003 El Dorado County Water Agency.
- 14. Water System Reliability Study: Georgetown Divide Public Utility District, November 2002 KASL Engineers

Stantec CAPITAL FACILITY CHARGE STUDY March 2006 Updated March 2007

5.0 Acknowledgments

The consulting team acknowledges the assistance of the following GDPUD staff:

Hank White, General Manager

Steven Gau, Operations Manger

Mary Pat Frick, Business/Finance Manager

The consulting team comprised the following participants:

Jay Clark

Emily Mah

Brent L. Moore

Mark Smith

George Preston

Corinne Rosenblum

An "equivalency factor" is a unitless value that expresses the capacity of a water meter in terms of rated maximum capacity (in gallons per minute) of a standard meter. For example, using the rated maximum flow rate capacity for a 3/4-inch meter as the standard, a single 1-inch meter is equivalent to approximately 2 and a half, 3/4-inch meters. And, a single 2-inch meter is equivalent to approximately eight, 3/4-inch meters. Rated maximum capacity for water meters is shown in Table 2-2 of Manual M6, Water Meters, published by the American Water Works Association. To determine the cost of a meter multiply the equivalency factor by the charge for a $\frac{3}{4}$ -inch meter.

It should be noted that single family and multi-family residential units demand the same amount of water on an average basis (according to the El Dorado Water Demand Forecast, June 4, 2003). The Water System Reliability Study indicates that one residential unit averages 357 gallons per day with a peak day usage of 1003 gallons per day. As shown in Table 10, the charge for a new Residential Single-Family unit is equivalent to the charge for a new Residential Multi-Family unit.

4.1.6 Unit Cost for Capital Facilities

Using the determined replacement cost and valuation for the GDPUD water system a unit cost can be calculated. This unit cost reflects the price of facilities to deliver water obtained from this system. Unit costs for the next twenty years are calculated in Table 9, Water System Capital Facility Charge.

The unit cost reflects the replacement cost for the available water system capacity, contributions, and the maximum day water treatment plant capacity. Available contributions from Federal grants are subtracted from the replacement cost for the water system, and this difference is the water system valuation. The total water system valuation for fiscal year 2005 – 2006 is \$35,381,197.

The peak day unit cost is calculated by dividing the water system valuation by the maximum day water treatment plant capacity. The peak day unit cost reflects the facilities price for one gallon of water obtained through the water system. For the GDPUD system the peak day unit cost is \$7.69. A single family dwelling unit uses an average of 357 gallons per day with a peak day usage of 1003 gallons per day. Values for average and peak day use were calculated using records obtained from GDPUD domestic water demand summaries found in the Water System Reliability Study by KASL Consulting Engineers, November 2002. The values for small acreage (<1 acre) for Garden Valley/Kelsey, Walton Lake/Georgetown/Spanish Dry Diggins, and Auburn Lake Trails/Cool/Pilot Hill regions were averaged to determine the Average Daily Single Family Dwelling use in gallons per day and the Peak Day Single Family Use in gallons per day. For the Peak Day Single Family Use only values greater than 800 gallons per day were used in the average. The quotient of the peak day and average day uses results in the peak factor. Multiplying the peak day single-family use by the unit cost results in the recommended facility reserve charge of \$8,100 for the fiscal year 2007-2008. The equivalent single-family dwelling charge for future fiscal years are calculated in Table 9 by applying a 3.0% annual inflation factor. This procedure was developed by the American Water Works Association.

After the decommission of the Auburn Lake Trails water treatment plant in 2007, it will have no replacement cost and will not benefit new development. In the same fiscal year (2007 – 2008), the Greenwood Lake water treatment plant is scheduled to be operational and will be a benefit to new development. Table 9 reflects this change in the water system replacement cost and valuation. The replacement cost for the Greenwood Lake water treatment plant available capacity is calculated by multiplying the estimation shown in section 4.1.2 by the percentage of capacity available for the Greenwood Lake water treatment plant. This results in the available capacity of \$3,466,667 in the fiscal year 2007-2008.

4.1.7 Schedule of Capital Facility Charges

As determined by calculating the unit cost for the GDPUD capital facilities, the recommended connection fee for a new residential connection is \$8,100 (fiscal year 2007-2008). A schedule of Capital Facility Charges is shown in Table 10, Recommended Water System Capital Facility Charges.

Greenwood Lake water treatment plant have been deducted from the calculated replacement costs for the total water treatment system.

4.1.3.2 New (Future) Debt Service

The GDPUD does not currently have any unfunded debt. The District Capital Expenditures budget will only be able to fund a portion of the CIP projected expenditures. Additional funding will be provided through Federal grants. Other sources of funding may include private lending or loans through US Department of Agriculture or the State Revolving Fund administered by the California Department of Health Services. During the preparation of this study, no determination has been made as to the amount or certainty of assuming loans to fund the CIP projected expenditures.

4.1.4 Current Water System Capacity

The current water system capacity is determined by the sum of the two water treatment plant (WTP) capacities. These are the Auburn Lake Trails and Walton Lake WTPs. A pipeline ties these treatment plants together forming one water treatment system for the GDPUD. The pipeline is located along Greenwood Road and is shown on Figure 2. The combined water system capacity for the GDPUD, currently, is a 4.6 MGD maximum capacity. Both WTPs equally contribute 2.3 MGD to the system. The recorded maximum day production at the Auburn Lake Trails WTP is 2.2 MGD, and the recorded maximum day production at the Walton Lake WTP is 1.8 MGD. These recorded maximum day production values show that the GDPUD water system currently has 0.6 MGD of available capacity. This equates to only 672 acre-feet per year.

 The water system capacity will change with the scheduled decommission of the Auburn Lake Trails WTP and operation of the Greenwood Lake WTP.

The Greenwood Lake WTP will have 3.0 MGD maximum day production. The replacement of the Auburn Lake Trails WTP with the Greenwood Lake WTP will increase the total water system capacity by 0.7 MGD for a total system peak day capacity of 5.3 MGD. With the recorded maximum day production of 4.0 MGD, as shown in production records, the remaining water system capacity will increase to 1.3 MGD which is equivalent to 1456 acre-feet per year. This amount of available capacity could serve 3,640 new residential units assuming and average use of .48 acre-feet per year.

4.1.5 Future Development and Water Demand

As shown in Chapter 2: Growth and Infrastructure, the population increase within the GDPUD service area will be significant over the next twenty years. An additional 4,625 residences could add 2,220 acre-feet per year to the demand on the water system. Including new residences, additional commercial services, and continued agriculture within the district, the water demand could reach a total of 20,415 acre-feet per year by the year 2025.

CAPITAL FACILITY CHARGE STUDY Capital Facility Charge Development Methodology March 2006 Updated March 2007

modern WTP over upgrading the ALT WTP. The GDPUD has adopted the Greenwood Lake WTP construction plans as part of the district's capital improvement plan (CIP).

The Greenwood Lake Water Treatment Plant will utilize the Greenwood Lake as its fore bay for raw water storage and for continued deliveries of raw water to agricultural customers.

As currently envisioned, the Greenwood Lake WTP would provide the District with the following major benefits:

- Increased treated water production capability;
- Facilities capable of meeting more stringent State and Federal requirements of drinking water;
- Reduction in long-term pumping costs;
- Increase in raw and treated water storage;
- Reduction in long-term operations and maintenance (O&M) costs;
- Enhanced overall system reliability;
- Use of a potentially higher quality raw water source and use of GDPUD's existing property for new facilities;
- A new command and control center; and
- Enhanced system security.

The Auburn Lake Trails Water Treatment Plant will be decommissioned upon the operation of the Greenwood Lake Water Treatment Plant.

4.1.3 Available Financing

The Capital Facility Charge is intended to reimburse the necessary Capital Improvement Program expenditures that benefit new development. In addition to the CFCs the following funding has been identified.

4.1.3.1 Contributed Capital

Contributed capital to the CIP projected expenditures is available through Federal grants. These funds will help pay a portion of the development costs for the new Greenwood Lake water treatment plant replacing the Auburn Lake Trails water treatment plant in the GDPUD. The Greenwood Lake water treatment plant will be located adjacent to Greenwood Lake with an operating capacity of 3 million gallons per day (MGD). The decommissioning of the Auburn Lake Trails water treatment plant and operation of the Greenwood Lake water treatment plant is scheduled for 2007. The funds expected from Federal grants for the construction of the

A significant expenditure from the Capital Improvement Program will directly benefit new development. That is the construction of the new Greenwood Lake water treatment plant to replace the existing Auburn Lake Trails water treatment plant. Another benefit is the replacement of the Greenwood Road water main. Replacing this main would increase the ability of either the Greenwood Lake or Walton Lake WTPs to maintain service for the entire GDPUD if one of the plants were offline. The Capital Facility Charge to new customers reflects the costs for these benefits.

Some reliability measure recommendations directly benefit new development, but they are not used in the calculation or development of the Capital Facility Charge. They are listed Tables 7 and 8 as an information resource for GDPUD management, budgeting, and planning purposes.

The GDPUD Five-Year CIP, May 2005, shows the estimate for the Greenwood Lake WTP is \$6,250,000, and for the design capacity of 3.0 MGD the cost per gallon of water produced is \$2.08. Stantec Consulting Ltd. estimates the cost in 2007 dollars per gallon produced is \$3.61, and the additional charge of 20% is required for a construction contingency. This results in an estimated cost for the Greenwood Lake WTP of \$13,000,000.

4.1.2.1 New Greenwood Lake Water Treatment Plant

The existing Auburn Lake Trails Water Treatment Plant (ALT WTP) is not in compliance with California code for safe drinking water standards. Rather than upgrade the ALT WTP, a new plant has been proposed near Greenwood Lake (GL WTP). The GDPUD plans to abandon the ALT WTP due to its outdated technology, site constraints, and energy savings.

Built in 1971, the ALT WTP relies on pressure filtration, which is an old technology. Components of the plant include its operations building, pressure filter, a clarifier that in now bypassed, an old clearwell, high- and low-service booster pumps, disinfection system, pipes, and accessories. The pressure filtration system of this plant is not an approved technology by the DHS.

The location of the ALT WTP makes expansion at this facility costly and impractical. Built within the Auburn Lake Trails residential development, the ALT WTP lot is constrained by the neighborhoods that surround it. The lot's sloping geography, the limited land around the plant, and its operational issues (smell, noise) near homes conflict with upgrade plans at the current location. Further, the ALT WTP lies near the end of GDPUD's raw water conveyance. Because of its remote location and low elevation, treated water must be pumped back uphill.

Unlike ALT WTP, Greenwood Lake is centrally located within the GDPUD. Replacement capacity at the proposed Greenwood Lake WTP (GL WTP) would be positioned to improve efficiencies in pipelines and would allow a treated water inter-tie with GDPUD's other WTP at Walton Lake. The proposed site is located at a relatively high elevation and would allow gravity to convey water, minimizing pumping costs.

The cost benefits of a new plant with new technology outweigh upgrading the old. For superior water quality and prudent capital investment, both GDPUD and DHS favor construction of a

CAPITAL FACILITY CHARGE STUDY Capital Facility Charge Development Methodology March 2006 Updated March 2007

4.1.1 Inventory and Replacement Cost of Current Assets

An inventory of the current water system assets includes water treatment facilities, storage tanks, pump stations, and distribution mains. The GDPUD water system consists of 2 water treatment plants, 11 storage tank locations, 3 pump station locations, and 137 miles of pipelines.

Wells, service lateral pipes, and water meters are not applicable to the inventory for this study. Wells are privately owned and not considered part of the GDPUD water system. Service lateral pipes and water meters directly benefit each individual customer and are not considered part of the infrastructure, which provides common benefit. Operational expenses, paid for by existing and future water rate customers, are also not included in the inventory. The inventory includes only those assets that benefit all users and are part of the infrastructure.

Stantec Consulting determined replacements costs for the water treatment facilities, storage tanks, pump stations, and pipelines. These replacement costs for the GDPUD water system are shown in Table 5, Water System Structures Replacement Cost (2005 dollars) and Table 6, Water System Pipelines Replacement Cost (2005 Dollars). The detailed development of the water system replacement costs is located in Appendix C, Water System Replacement Costs Developed by Stantec Consulting Ltd.

The total replacement cost for the two existing water treatment plants (Walton Lake and Auburn Lake Trails) is \$13,800,000 and the total cost to replace the tanks and pump stations in the GDPUD system is \$4,896,235. Replacing all of the pipelines would cost \$37,120,461. These costs are shown in Tables 5 and 6 and are in 2005 dollars.

Inflation adjustments to the replacement costs of the water system are shown in Table 9, Water System Capital Facility Charge. Each successive year has an annual inflation rate of 3%, compounded annually, applied to the cost in the previous year? This is based on the September 2005 ENRCCI.

4.1.2 Projected Capital Improvement Program Expenditures

In May 2005 the GDPUD adopted a Five-Year Capital Improvement Program to serve as a planning tool for the GDPUD staff to organize capital expenditures. These expenditures outline the top priorities for the GDPUD.

A list of the Capital Improvement Program expenditures and present day costs is shown in the top portion of Table 7, Water System Capital Improvement Costs and Reliability Measure Recommendations (2005 Dollars). Inflation adjustments to those costs are shown in Table 8, Water System Capital Improvement Costs and Reliability Measure Recommendations (Adjusted Dollars), and they are presented for planning and budgeting purposes. The reliability measure recommendations apply to the water and raw water systems. They were developed for the GDPUD to identify and prioritize repairs, upgrades, and measures to reliably meet customer water demands.

This chapter details the development methodology used to calculate a Capital Facility Charge based on the following: replacement cost of current assets, capital improvement program expenditures, available funding, water system capacity, unit costs of water, and average water usage.

Portions of the water system require expansion or replacement to accommodate new customers. These costs along with estimated future land development are used to set the connection fee, or Capital Facility Charge (CFC), for new customers in the GDPUD. The CFC should be a reasonable rate reflecting a proportionate fair share of the water system capacity.

The CFC developed in this study satisfies rational nexus criteria. In accordance with other Capital Facility Charge studies, a rational nexus-based CFC should:

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

The methodology used to develop the CFCs in this study consisted of the following steps:

- Prepared an inventory of current system assets and determined the replacement cost for each asset.
- Prepared a list of projected capital expenditures and reliability measure recommendations that will be built and paid for in the near future.
- Estimated the amount of available financing: new debt service and contributed capital.
- Determined the capacity of the current system.
- Determined the amount of new development.
- Calculated the unit cost of capital facilities.
- Prepared a schedule of capital facility charges.

The development steps are explained in detail in the following sections.

CAPITAL FACILITY CHARGE STUDY Current Water System Connection Fees March 2006 Updated March 2007

Water Purveyor	Connection Size	Facility Capacity Charge	Water Meter Charge
El Dorado Irrigation District		and a second design of the second	Norman Contractory and American Street St
El Dorado Hills Area	3/4" SFR	\$12,518	\$537
Motherlode Area	3/4" SFR	\$8,517	\$537
17	3/4" MFR	75% of FCC	\$537
Colorba Flata Community Consider District	0///		the state of the
Grizzly Flats Community Services District	3/4"	\$5,650	
South Tahoe Public Utility District	3/4"	\$2 863 92	
		\$2,000.02	
Tahoe City Public Utility District	5/8"	\$2,000	
	3/4"	\$2,500	
	1"	\$3,000	
	1.5"	\$6,000	
	2"	\$9,600	
Placer County Water Agency	5.00		
Zone 1: Roseville, Rocklin, Auburn, Loomis	5/8"	\$11,096	\$310
San Juan Water District		\$2.210*	
		\$18,000**	
		\$10,000	
Nevada Irrigation District	5/8"	\$5,980	
	3/4"	\$9,365	
			A GAL
	1 Alexandre		
	and the second		and the second first second of the
		And the second se	and the second

Table 4: Summary of Regional Connection Fees

*Applicable fee where developer has already paid Capital Facility Fees **Approximate total fee including Capital Facility Fees SFR = Single Family Residential

MFR = Multi - Family Residential

CAPITAL FACILITY CHARGE STUDY Current Water System Connection Fees March 2006 Updated March 2007

five housing units per acre in a typical subdivision connection fees would be approximately \$5,810.00 per unit.

NEVADA IRRIGATION DISTRICT

The Nevada Irrigation District (NID) is an independent California special district operated by and for the people who own land within its 287,000-acre boundaries. The district is organized primarily to supply water for irrigation, municipal, domestic and industrial purposes. NID water is available in areas of Nevada and Placer counties and the district also has storage and distribution facilities in Sierra and Yuba counties. Unique in many respects, NID collects water from its own high mountain watershed, operates a network of water treatment plants, produces hydroelectric power and provides outdoor recreation.

The district remains committed to the supply of irrigation water, but since the 1970s, most new customers have applied for treated water service. Today, three of every four customers use treated drinking water. Average water use is 400 gallons per home per day. Treated water service areas are located in and around Grass Valley and Nevada City, Banner Mountain, the Glenbrook Basin, Loma Rica, Alta Sierra, Lake of the Pines, Penn Valley, Lake Wildwood, Smartville and North Auburn.

Generally, treated water is available in the more populated areas. It is expensive to extend treated water main lines into rural areas where there are few customers to share the costs. In recent years, the district has been successful in working with local property owners to form local water quality improvement districts. NID presently operates 7 water treatment plants that supply some 3 billion gallons, or approximately 9,000 acre-feet, of treated drinking water per year. State-licensed and certified technicians operate the plants. Water treatment processes include chlorination, coagulation, flocculation, sedimentation and filtration. NID treated water meets and exceeds standards set by the California Department of Health Services.

In recent years, NID has supplied an average 145,000 acre-feet of water per year. About 90 percent of this total is used for local agriculture.

There are many factors in determining the connection fee, but the basic meter and connection fees for the Nevada Irrigation District are as follows: $5/8^{"} = \$5,980$ and $\frac{3}{4}^{"} = \$9,365$

CAPITAL FACILITY CHARGE STUDY Current Water System Connection Fees March 2006 Updated March 2007

Sewer customers - 7,300

Parks and recreation customers - over 500,000

The boundaries of the District extend from Emerald Bay to Dollar Hill and along the Truckee River to the Nevada County line. The service area is very large, encompassing almost 22 square miles. The water connection fees for the Tahoe City Public Utility District are as follows:

- □ 5/8" = \$2,000
- □ ³⁄₄" = \$2,500
- □ 1" = \$3,000
- □ 11/5" = \$6,000
- □ 2" = \$9,600

3.2.2 Placer County

PLACER COUNTY WATER AGENCY

The Placer County Water Agency encompasses the entire, 1,500-square-mile, boundary of Placer County, ranging from the rim of the Sacramento Valley on the west to the Sierra Nevada and Lake Tahoe on the east. PCWA carries out a broad range of responsibility including water resource planning and management, retail and wholesale supply of irrigation water and drinking water, and production of hydroelectric energy.

For a 5/8" (1,150 gallons per day) connection in zone 1 (Roseville, Rocklin, Auburn, Loomis), the demand fee is \$11,096. A 5/8" connection is used as a baseline for all connections within the PCWA, including standard single-family residences. The water connection fee, which includes water meter hardware (approximately \$310) and installation, is determined according to certain specifications. If it is an individual connection, the Agency charges on a time and materials basis.

Commercial and industrial connection fees are determined on an individual basis (depending on the size of the meter and projected water demand).

SAN JUAN WATER DISTRICT

The San Juan Water District is a community services district that was created in 1954. This district purveys water to customers in south Placer County as well as eastern parts of Sacramento County. The connection fee for a subdivision where the developer has paid Capital Facility Fees is \$2,210 (this fee includes the water meter hardware and meter inspection). If these fees have not been paid, the fee is approximately \$18,000/acre for standard single-family residential units. However, this fee is generally determined on a case-by-case basis. Assuming

Stantec CAPITAL FACILITY CHARGE STUDY Current Water System Connection Fees March 2006

The connection fees for these water purveyors (with the exception of the GDPUD for whom this study is being completed) are summarized in Table 4 and described below.

EL DORADO IRRIGATION DISTRICT

Updated March 2007

There are two areas within the El Dorado Irrigation District (EID): El Dorado Hills and the Motherlode. Connection fees in El Dorado Hills are higher due to the cost of building infrastructure in that area. The Motherlode is essentially the rest of the district that is serviced with treated water. For a ³/₄" (typical single family residential) connection, the Facility Capacity Charge is \$12, 518 in El Dorado Hills and \$8,517 in the Motherlode area. In both areas, the water meter hardware costs \$537 in addition to the Facility Capacity Charge. If the property does not have an outlet, the District charges time and materials to tap the main and provide the outlet, which generally costs \$1200 - \$1800.

For a multi-family development, each unit is charged 75% of the above Facility Capacity Charge plus the cost of the water meter hardware (\$537). Commercial connection fees are determined on a case-by-case basis because they depend on the size of the connection and number of meters that will be located on the site.

GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

This study is being conducted under the direction of the Georgetown Divide Public Utility District. An assessment of the current connection fees for this district is discussed in the previous section (Section 3.2 Current Charges).

GRIZZLY FLATS COMMUNITY SERVICES DISTRICT

A typical single-family residential connection in the Grizzly Flats Community Services District costs \$5,650. Commercial and Industrial uses within the district are already connected, but the connection fee would most likely be the same as that for a residential connection.

SOUTH TAHOE PUBLIC UTILITY DISTRICT

The South Tahoe Public Utility District is a public agency that was formed in 1950. The District provides wastewater collection, treatment and recycling and drinking water to the community of South Lake Tahoe.

A ¾" service costs \$2,863.92. A property requiring a fire line would incur additional costs. Commercial and Industrial uses go through a lengthy process to determine the estimated usage (based on the size of the building and other factors).

TAHOE CITY PUBLIC UTILITY DISTRICT

The Tahoe City Public Utility District was founded in 1938 to provide some of the governmental needs of the residents of Tahoe City. Sewer collection, parks facilities, and recreation services are provided for the entire area of the District. Water service is provided in three separate systems and serves approximately half of the homes and businesses in the District.

Water customers - 3,500

V:\52840\active\84025003\admin_draft\jan_2007_update\rpt_admin_dft_charge_study_mar2007.doc

Stantec CAPITAL FACILITY CHARGE STUDY Current Water System Connection Fees March 2006 Updated March 2007

3.1.1 Generalized Benefit for the Entire District

The recommended process as a result of this study is to charge one uniform CFC to all new customers. The water system is one complete system, which benefits each connection. The system is not divided into sub areas that can be used to determine varying connection fees.

The GDPUD Water System Reliability Study prepared by KASL Engineering in November 2002 was used to establish the connection between improvements required to support growth and benefits to the new connection. Water storage and conveyance throughout the system benefits all users. Therefore the cost to connect to the system should not differ depending on where a new customer connects. With implementation of the CIP the entire district can be ensured reliable service. In addition, the CIP allows for added security of the treated water supply that also benefits the entire district and not just isolated areas of the district.

3.2 COMPARISON OF OTHER WATER PURVEYORS

To aid in the determination of this CFC, connection fees from regional water purveyors were evaluated to serve as a basis for comparison to our recommended CFC for the GDPUD.

As a point of comparison, this study includes a survey of the water purveyors in El Dorado and Placer Counties. This survey provides an understanding of water connection fees for new residences in the region surrounding the Georgetown Divide. This section provides a summary of the connection fees for these water purveyors.

3.2.1 El Dorado County

The primary sources of potable water in El Dorado County are surface water resources. Rural areas where surface water is in short supply or where surface water delivery systems are absent rely on groundwater resources. There are five primary public water providers in El Dorado County, all of which are independent public entities:

- El Dorado Irrigation District (EID), which provides water to the southwestern part of the county from El Dorado Hills to Placerville;
- Georgetown Divide Public Utility District (GDPUD), which provides water to the Georgetown Divide;
- Grizzly Flats Community Services District (GFCSD), which provides water to the Grizzly Flat Rural Center;
- South Lake Tahoe Public Utility District (STPUD), which provides water to South Lake Tahoe and surrounding unincorporated areas; and
- Tahoe City Public Utility District (TCPUD), which provides water to the communities along the west shore of Lake Tahoe.

3.0 Current Water System Connection Fees

There are several components to determining the recommended CFCs. This chapter covers three main components. This chapter begins with providing an evaluation of the current connection fees charged by the GDPUD and ends with a summary of connection fees for surrounding and respected water purveyors.

3.1 CURRENT GDPUD CHARGES

GDPUD Water Ordinances 94-03 and 94-04, adopted in 1994 describe the current charges

for a new connection to the water system.

Ordinance 94-03 outlines the purpose and need for a water development charge for new connections to the system to attain the appropriate amount of funding to complete studies for acquisition of additional water sources for the GDPUD. The 93-03 Ordinance established a Water Development Charge of \$2,000.00 to pursue supplemental water supplies.

Ordinance 94-04 outlines the need for treatment plant expansion, storage facilities, and pipelines needed to maintain service within GDPUD service areas. The GDPUD will utilize funds garnered through the charges to expand treatment and storage facilities. The 94-04 Ordinance sets forth the charges separately as follows: treatment plant expansion - \$995; pipeline charge - \$595; storage charge - \$700; service connection charge - \$650; and meter installation charge - \$100.

The total cost for connection established by Ordinances 94-03 and 94-04 amounted to \$5,000 per connection.

It is the goal of this CFC study to recommend the appropriate changes to reflect present day and future needs of the GDPUD. Upon adoption of this study, including the recommended fees, both Ordinance 94-03 and 94-04 establishing the current fees and charges, would be replaced by those outlined in this study.



Stantec CAPITAL FACILITY CHARGE STUDY Population and Water Demand Forecasts March 2006

Updated March 2007

Agricultural Lands (AL) refer to lands that are of sufficient size to sustain agricultural use. Areas with the Natural Resource (NR) land use designation contain economically viable natural resources and are intended to protect the economic viability of those resources and those engaged in the harvesting/processing of those resources. Open space (OS) areas are public lands under government title where no development other than that specifically needed for government-related open space uses is desired.

The Commercial (C) land use category is intended to provide a full range of commercial retail, office, and service uses to serve the residents, businesses, and visitors of El Dorado County. The Industrial (I) land use category is designated for a range of light and heavy industrial uses, such as manufacturing, processing, distribution, and storage.

Public Facilities (PF) include only publicly owned lands used for public facilities such as sanitary landfills, storage and maintenance yards, regional parks and recreation facilities, schools, and libraries. The Tourist Recreational (TR) land use category is to provide areas for tourist and resident serving recreational uses, transit and seasonal lodging facilities, and supporting commercial activities. The land use category would have differing intensities of use based on the location.

In addition to the above designated land uses, overlay designations have been established to provide additional direction for the development of land. Figure 5 shows the land use designations for all vacant non GDPUD customer parcels.

The Agricultural District overlay designation identifies general areas that contain the majority of the County's federally designated prime, State designated unique or important, or County designated locally important soils, and which the Board of Supervisors has determined should be preserved primarily for agricultural uses. The Platted Lands overlay designation identifies isolated areas consisting of contiguous existing smaller parcels in the Rural Regions where the existing density level of the parcels would be an inappropriate land use designation for the area based on capability constraints and/or based on the existence of important natural resources.

The Ecological Preserve overlay designation identifies those properties in public or private ownership which have the potential to be established or have been established as habitat preserve areas for rare or endangered plant and animal species and/or critical wildlife habitat and/or natural communities of high quality or of Statewide importance. The Mineral Resource overlay designation identifies those areas that are designated as Mineral Resource Zone 2 on the State Classification Reports. The Important Biological Corridor overlay applies to lands that are identified as having high wildlife habitat values.



season if running 24 hours per day can provide a maximum amount of 2.5 million gallons. The flow rate of 20 miner's inches would produce approximately one acre foot per day.

Agricultural uses typically do not require treated water. The GDPUD currently charges a connection fee of \$2000.00 for agricultural accounts. One major component to the raw water system is the ditch system, shown on Figure 2, Site Map. The ditch system is a series of pipelines, lined and un-lined ditches. Construction of this system began in the 1800s. The system continues to undergo maintenance repairs and upgrades are generally associated with the treated water system and water conservation efforts. Agricultural properties pay the monthly users fee for the amount of water taken from the raw water system. The user fees paid by agricultural customers attempt to cover the costs of maintenance and operations for delivery of the water through the GDPUD canal system.

Land Use Designations

The El Dorado County General Plan guides how and where future development occurs. Within the El Dorado County General Plan, the Land Use Element sets forth specific goals, objectives, and policies to guide the intensity, location, and distribution of land uses. The communities served by the GDPUD include Cool, Garden Valley, Greenwood, Georgetown, Kelsey, and Pilot Hill. All six communities have been identified as Rural Centers within the General Plan.

Rural Centers are identified as places of focused activities that provide food and services to the surrounding areas. The remaining areas served by the GDPUD are classified in the General Plan as Rural Regions. Rural Regions include land use patterns that maintain the open character of El Dorado County, preserve its natural resources, recognize the constraints of the land and the limited availability of infrastructure and public services, and preserve the agricultural and forest-timber area to ensure its long-term viability for agriculture and timber operations.

This section summarizes the land use designations that apply to the GDPUD:

The land use designations that apply to the GDPUD are visually presented in Figure 4, GDPUD General Plan Land Use Designations and summarized below.

There are five categories of residential land use designations that apply to the GDPUD. The Multi-family Residential (MFR) land use designation identifies areas suitable for high-density, multi-family structures such as apartments, single-family attached dwelling units, and multiplexes. The High-Density Residential (HDR) land use designation establishes areas suitable for intensive single-family residential development. The Medium-Density Residential (MDR) land use designation identifies areas suitable for detached single-family residences with larger lot sizes, which allow for agricultural land management activities. The Low-Density Residential development in a rural setting. The Rural Residential (RR) land use designation establishes areas for residential and agricultural development, and serves as a transition between areas designated as Low-Density Residential and Natural Resource land uses.

CAPITAL FACILITY CHARGE STUDY

Population and Water Demand Forecasts March 2006 Updated March 2007

2.1.3.4 Analysis

Table 3, above, summarizes the acreage for each land use within the vacant, non-customer properties. Based on the maximum allowable densities specified in the El Dorado County General Plan, the low density residential land use designation yielded the greatest potential of residential units at 1,181 dwelling units for currently vacant, non-customer properties. The multifamily residential and rural residential land uses generated the next highest numbers of possible new residential units with 1,268 and 1,074 potential units respectively. Medium-density residential reflects a potential yield of 975 dwelling units. High-density residential land use could potentially result in 71 new residences. In addition to residential land uses, the number of potential residential units to support agricultural land use is 53. The GDPUD service area has a potential for 4,625 new residential units based on the maximum allowable densities in the General Plan. Given the water demand factor of .48 acre-feet per year per dwelling unit, this would add a demand for 2,220 acre-feet per year to the GDPUD water system.

[•] The number of potential residential units reflects just that, potential residential units. It does not reflect actual future development. All 4,625 units may not be feasible due to environmental constraints and the overlay restrictions described in the assumptions section above. It should be understood that this projection is used for estimation purposes only. Some new residences may decide to install wells rather than connect to the water system.

2.1.4 Agriculture and the Miner's Inch

Agriculture in the Sierra Foothills is substantially different from agriculture within the Central Valley. It has been an important sector in El Dorado County from the standpoint of economics, open space, and recreation. The growing metropolitan population in the Sacramento Region will continue to fuel the demand for greater access to agri-tourism type activities, such as the existing Apple Hill.

As stated previously, the projected water demand for agricultural uses will be 11,770 acre-feet per year in 2025 and 17,530 acre-feet per year at General Plan build out. Currently, the GDPUD is serving 4,463 acre-feet per year for agricultural uses. This is typically through a miner's inch connection. These projections assume that reliable, affordable water supplies are available in the future. The agricultural water demand figures are contingent upon the raw water facilities necessary to provide agricultural irrigation water still being in place.

The future of agriculture in El Dorado County will be influenced by policies related to land use, water supply, and water supply infrastructure. For this reason, it is imperative that this CFC study address agricultural needs for water service.

Currently, agricultural needs are being met by using miner's inch connections to the raw water system. A miner's inch is the volume of water that will flow through a 1" square opening with six inches of head above the opening over a period of 24 hours. The pressure from the six inches of head pushes the water at a consistent flow out of the 1" opening. One miner's inch equals 1.5 cubic feet per minute, or 11.22 gallons per minute. The GDPUD provides agricultural irrigation water 153 days out of the year during the dry season. One miner's inch over the irrigation

Stantec CAPITAL FACILITY CHARGE STUDY Population and Water Demand Forecasts March 2006

Updated March 2007

Land Use Designation	# of Parcels	Acres	Max. Density	# of Potential Residential Units
Agricultural Lands	33	1071.805	0.05	53.59
Commercial	53	158.3563	4 du/ac in Rural Centers	0.00
High Density Residential	80	35.6645	2 du/ac (standard subdivision)	71.33
Industrial	1	151.3828		
Low Density Residential	330	5906.277	1 du/5 ac	1,181.26
Medium Density Residential	368	975.4348	1 du/ac	975.43
Multi-Family Residential	7	52.87251	24 du/ac	1,268.94
Natural Resources	76	2216.585	1 du/160 ac outside National Forest Service lands and within "timber production areas"; 1 du/40 acres within river canyons outside "timber production areas.". If unsuitable for "timber production" 1 du/40 acres.	
Natural Resources-Timberland				
Preserve Zoning	4	85.36038	.00625 du/ac	0.53
Open Space	13	396.5656		
Public Facilities	5	79.92219		
Rural Residential	485	10748.82	1 du/10 acres	1,074.88
Tourist Recreational	1	0.684499		//

Table 3: Vacant, Non-Customer Parcels at General Plan Build Out

Total # of Potential Res. Units

4,625.97



<u>Impact from land use overlay designations will be insignificant</u>: The applicable land use overlays identified in the El Dorado County General Plan are the Agricultural District, the Mineral Resources Zone, and the Important Biological Corridor. The areas of these overlays are generally designated for agricultural land use, natural resources, or rural residential land use; therefore, the added impacts would be minimal to the potential residential units estimated in this build out analysis.

For the purposes of developing a justified connection fee for new customers, this build out analysis provides a reasonable estimation for development and future residential demand for water. Based on the demand for water and the infrastructure necessary to deliver that water the GDPUD's CIP was reviewed and adjusted to reflect the required water system infrastructure.

2.1.3.2 Data

This build out analysis was calculated using El Dorado County's GIS parcel data accompanied by a list of GDPUD customers. The GIS parcel data is part of the County's Geographic Information System. It is a means of tracking spatial data, such as maps, linked to database information. The El Dorado County Planning Department provided a digital parcel shapefile (GIS file format) in which each parcel is coded with its General Plan land use designation. The applicable overlay categories are also identified in this shapefile. The El Dorado County Survey Department provided the same parcel shapefile with each parcel coded as to its development status. These are shown in Figure 3, Vacant and Developed Parcels.

2.1.3.3 Methodology

The customer information provided by the GDPUD listed 3,578 unique Assessor Parcel Numbers (APN). Of these APNs, 3,490 matched the APNs in the shapefiles provided by the County. Using ESRI's ArcGIS 9.0 software, the customer numbers were linked to the parcel map (shapefile). This allowed the vacant parcels that are not current customers to GDPUD to be identified. According to the previously stated assumptions, these are the properties that are likely to develop and connect to the water system in the future.

V:\52840\active\84025003\admin_draft\jan_2007_update\rpt_admin_dft_charge_study_mar2007.doc

GDPUD Growth Projections Summary	1999	2025	Build Out
Residential Units	3,272	4,302	8,413
Employment	1,341	2,069	7,077
Total Water Demand (acre feet per year)	10,956	15,787	20,415

Table 2: Summary of Growth Projections for Georgetown Divide Public Utility District

2.1.3 Build Out Analysis

The El Dorado County General Plan and land use designations have been updated since the projections developed by EPS (as provided in the previous section). Using land use information provided by El Dorado County and under the guidance of the GDPUD, a new analysis of potential development was conducted for this study. This section details the assumptions and methods used to estimate the number of new connections projected for the next twenty years.

2.1.3.1 Assumptions

<u>No annexations</u>: Over the last twenty years, the GDPUD has had insignificant – minimal growth in terms of annexations. For this reason, the future projection is that annexations to the district will be insignificant over the next twenty years. This report assumes that the GDPUD will not significantly change the boundary for the service area.

<u>New connections will be from new development</u>: The GDPUD has not experienced an increase in customers from existing developed properties. Residences on wells are most likely to remain on wells for the foreseeable future. During the drought of the late 1970s several miles of pipeline were installed and new connections made due to well failures. It is assumed residences that did not connect in previous droughts will not demand connection in the future. Residences connected to the system are not likely to increase their demand (by adding additional units) for the foreseeable future. This study assumes that new connections to the treated water system will come from development of currently vacant properties. It should be noted that there is no policy requiring new development to connect to the treated water system. If a property meets County requirements, it may be developed with a well on site. GDPUD has been contacted by developers and current residents to connect to the system, but substantial connections have yet not been requested.

<u>General Plan maximum densities</u>: This build out analysis uses maximum densities allowed in the General Plan. This allows the assumption that the more strict zoning regulations (used to implement the General Plan) may change as development occurs. It should be noted that the calculations of maximum density in this build out analysis do not include environmental constraints to development such as slopes, creek setbacks, etc. However, the El Dorado County General Plan update process did consider these environmental constraints in designating the new land uses. The calculations are based strictly on area.

V:\52840\active\84025003\admin_draft\jan_2007_update\rpt_admin_dft_charge_study_mar2007.doc

Prior to updating the El Dorado County General Plan, as part of the Environmental Impact Report (EIR) process, Economic and Planning Systems, Inc. (EPS) developed water demand projections for El Dorado County. These are based on land use forecasts, the distribution of land uses between the major water purveyors, and water demand factors provided by the water purveyors. The land use projections were multiplied by a water demand factor to estimate the water demand for each of the major water purveyors and the remaining county area.

EPS developed projections for each of the four alternatives addressed in the EIR. This CFC study assumes the Environmentally Constrained Alternative was the basis for updating the El Dorado County General Plan. That alternative was based on a reduced overall build out capacity of the County as determined by reassigned land use designations proposed by County planning staff on a parcel-by-parcel level. It also included a mixed-use component for commercial properties, with 10 percent of commercial acres designated to have a residential component. Densities in this alternative vary between land uses designated as a Community Region or a Rural Center. For all residential land uses, excluding the mixed-use component, it was assumed that parcels would build out at maximum densities.

These characteristics are consistent with the updated 2004 El Dorado County General Plan policies and assumptions. Therefore, it is realistic to reference the forecasts produced for the Environmentally Constrained Alternative in this CFC study for determining a new connection fee.

Table 2 summarizes the residential and employment projections by EPS for the GDPUD. Their study shows the potential for 5,141 new residential units between 1999 and General Plan Build Out.

The GDPUD provided the following information regarding typical water demand in acre-feet per year. An acre-foot of water is the amount of water necessary to cover on acre of land 1 foot deep. A residential unit demands .48 acre-feet per year. A typical employee (commercial, industrial, or office) demands .18 acre-feet per year. Wood Rodgers, Inc. developed the projected irrigation uses for the GDPUD service area as follows: 11,770 acre-feet per year in 2025 and 17,530 acre-feet per year at general plan build out. Using these water demand factors, EPS calculated the total water demand for the GDPUD to be 10,956 acre-feet per year in 1999, 15,787 acre-feet per year in 2025, and 20,415 acre-feet per year at General Plan build out.

2.0 **Population and Water Demand Forecasts**

2.1 LAND USE ANALYSIS AND BUILDOUT PROJECTION

2.1.1 Growth Trends

El Dorado County has experienced rapid population growth since the 1970s and is projected to grow by 30,000 households over the next 20 years. Historically, growth in El Dorado County resulted in compact development patterns. Communities such as Cool, Georgetown, and Placerville were small, mixed-use communities where residents lived, worked, and shopped. Recently, although urban-like development has continued in the foothills, large-lot, low-density residential development has infused a more rural lifestyle throughout the county. The natural rural areas are slowly transforming into residential lands requiring additional public infrastructure to support a more intense stewardship.

A comparison of the 1990 and 2000 Census data (see Table 1 below) shows significant growth throughout El Dorado County. The GDPUD only services unincorporated areas within the county, which experienced 28% growth between 1990 and 2000.

	El Dorado County Comparison of 1990 and 2000 Population				
	1990	2000	% Change		
Population, Entire County	125,995	156,299	24		
Population, Unincorporated County	96,054	123,080	28		

Table 1: Comparison of 1990 and 2000 Population in El Dorado County

Source: U.S. Census Bureau: Table P1 for the 1990 and 2000 Census counts.

In March 2002, Economic and Planning Systems, Inc. (EPS) completed a detailed land use forecast for the West Slope of El Dorado County. The West Slope area referenced in that report includes the GDPUD area. Based on market research, historical growth patterns, and SACOG projections, EPS estimated that an additional 78,000 people could reside in El Dorado County by 2025, reflecting overall growth of 33%. According to this projection, it is expected that the West Slope population would increase 64% between 2000 and 2025.

2.1.2 Water Demand Forecast

The demand for water in El Dorado County and the GDPUD over the next twenty years will be related to growth and new development. Understanding the projected water demand is crucial in determining a fair connection fee for new customers in the GDPUD. Agricultural land uses provide a significant amount of demand for water in the GDPUD along with residential and commercial uses.

Stantec CAPITAL FACILITY CHARGE STUDY Introduction March 2006 Updated March 2007

need to raise rates to provide for system expansion. As a result, new customers pay fully for the additional facilities without imposing a burden on existing customers.

Due to the current financial structuring of the GDPUD, this study utilizes a combination of both the system buy-in method and the incremental cost-pricing method. Blending these two approaches is common. In the case of the GDPUD, the blended approach includes a partial buy-in; for example, existing assets that have available capacity to serve new customers, combined with the new assets in which specific facilities to accommodate growth are included.

1.4 APPROACH

The CFCs recommended for the GDPUD reflect economic and legal principles for determining capacity charges and impact fees generally, and also reflects the practices of other water agencies in California.

Chapter two of this report outlines the projected population growth in El Dorado County and within the GDPUD service area. This chapter summarizes recent studies of future water demand for the GDPUD. A complete residential build out analysis and assumptions are also presented in chapter two.

With an understanding of projected growth in the area, chapter three details the current charges for new connections within the GDPUD and current charges for new connections within the surrounding water purveyors of El Dorado and Placer Counties.

Chapter four details the process for calculating a unit cost of water from the GDPUD system and a proportional fair CFC for new connections. This approach satisfies rational nexus criteria required by the California Government Code.

This Capital Facility Charge Study was developed for a twenty-year timeline and serves as a tool to project future capital improvements based on historical development, existing conditions, and future land use planning within the district. As Capital Improvement Plans (CIPs) are adopted on a yearly basis to carry out the water supply of the district as outlined in this document, the ultimate Capital Facility Charge may be amended as necessary to reflect infrastructure needs of the burgeoning communities constituents, future advancements in water treatment technology, and the mutability of water quality in general.

1.4

Stantec CAPITAL FACILITY CHARGE STUDY Introduction March 2006 Updated March 2007

districts seek fairness and equity when allocating financial burdens among customers. Utility assets tend to be relatively expensive – partly because most assets are installed undergroundand provide long periods of service (up to fifty years or more). It is appropriate to factor growth into the formula of cost allocation. It is often considered inappropriate to have existing customers be entirely responsible for capital costs of future assets, especially those expansion facilities that would not be built if there were no growth. This study utilizes a justified methodology to determine an appropriate Capital Facility Charge while respecting these considerations.

1.3.1 Publications Regarding Capital Facility Charges

Three major publications regarding CFCs for the utility system were reviewed for this study. A basic publication for the water and wastewater industry regarding water system CFCs is Manual M26 published by the American Water Works Association. Manual M26, *Water Rates and Related Charges*, covers a number of water system charges, including CFCs. Other publications reviewed that deal specifically with water system CFCs include George A. Raftelis, *Comprehensive Guide to Water and Wastewater Finance and Pricing*, and Arthur C. Nelson, *System Development Charges for Water, Wastewater, and Stormwater Facilities*.

The most common methodologies for determining water system connection fees are the "system buy-in" and the "incremental facilities" approach which are explained briefly in the paragraphs below.

1.3.1.1 System Buy-In Method

This concept is based on the notion that new customers are entitled to water service at the same price as existing customers. However, existing customers have already provided the facilities that will serve the new customers, including any costs of financing those facilities. Under this buy-in method, new customers pay an amount equal to the net investment already made by existing customers in the facilities. As described in Manual M26 (American Water Works Association), net investment is based on actual cost less depreciation. This net equity investment is then divided by the number of total / new customers to determine the amount of payment required from the new customer to buy in to the utility at parity with existing customers. Once new customers have paid the CFC, they become equivalent to existing customers and share the responsibility for existing facilities. When additional costs are incurred for system improvements, replacement, or expansion, all customers share the costs of such improvements through monthly user fees.

1.3.1.2 Incremental Cost-Pricing Method

As detailed in Manual M26, when new customers connect to the water system, they benefit from reserve capacity available in existing facilities or require new capacity. If existing available capacity is used, it must be replaced. If new capacity is required, it must be constructed. Both situations require funding for capital facility improvements. Under the incremental cost-pricing method, new customers would pay for their use of the reserve capacity and for new facilities necessary to provide service to them. The goal of this method is to minimize or eliminate the
Stantec CAPITAL FACILITY CHARGE STUDY Introduction March 2006 Updated March 2007

venture failed after two years. Today, Georgetown remains "The Pride of the Mountains" for its residents, with the surrounding Sierras and its historical Main Street.

1.2 PURPOSE

In July 2005, Stantec Consulting entered into an agreement with the GDPUD to perform a Capital Facility Charge (CFC) Study/Report. The purpose of this study is to determine a fair CFC for new customers of the GDPUD. As the population grows and new development occurs within the district, the water system infrastructure will require expansion. In developing CFCs for the GDPUD, Stantec endeavored to satisfy the rational nexus criteria generally applied to these types of charges. A rational nexus based CFC must:

- Be rationally based on public policy that demonstrates a nexus between new development 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.
- Deliver Not be arbitrary or discriminatory in its application to individuals or customer classes.

The CFCs ensure that "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 used by current customers to water rates.

1.2.1 County Government Regulations

On July 19, 2004, the El Dorado County Board of Supervisors adopted a new General Plan for the County. State planning law requires that every County adopt and maintain a General Plan, which is a document that serves as the "blueprint" for development throughout the county. This General Plan is the County's basic planning document and is the vehicle through which the County addresses and balances the competing interests and needs of its residents. Therefore, it is pertinent to plan future infrastructure that is consistent with the needs of the proposed land uses over the next twenty years. The CFCs developed in this study meet the policies stated in the 2004 El Dorado County General Plan, Public Services and Utilities Element. Specifically, General Plan Policy 5.1.2.3 states that the District should ensure that "new development shall be required to pay its proportionate share of the costs of infrastructure improvement required to serve the project to the extent permitted by State Law."

The recommended CFCs (as a result of this study) meet the regulatory requirements found in Government Code Sections 66012 - 66014 regarding the establishment of capacity charges.

1.3 BACKGROUND

Financial objectives for utility districts can be varied. Districts seek sufficient capital to build projects and sufficient revenue to properly manage, operate and maintain facilities. Also,





Stantec	Stantec Consulting Inc. 2590 Venture Oaks Way	Legend Road	Client/Project GDPUD Facility Reserve Charge Study
	Socramento, CA. 95833 Tel. 916.569.2500 Fax. 916.921.9274 www.stantec.com	Highway Water Feature GDPUD	Figure No. 1 Title Vicinity Map

V:\52840\active\84025003\drawing\vicinity_map_2.dwg 9/30/05 4:10pm gpreston

09/28/05 184025003

3 L

й Тарана стала ст Тарана стала ст

RESOLUTION NO. 2022-XX

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT CAPITAL FACILITY CHARGES

WHEREAS, Georgetown Divide Public Utility District (the District) boundary encompasses approximately 68,000 acres and provides approximately 3,800 service connections with potable drinking water;

WHEREAS, District boundary encompasses a significant number of parcels that are not connected to the potable drinking water system;

WHEREAS, Capital facility charge is a cost levied to a new connection, based on size of meter, to the District potable drinking water system;

WHEREAS, District Ordinance 2007-01, established capital facility charges based on growth-pays-for-growth principle;

WHEREAS, Article of 9 of District Ordinance 2007-01 provides for an annual reassessment of capital facility charges.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT as follows:

Beginning June 14, 2022, the capital facility charges are established as follows:

Meter Size	FY22/23
5/8 – 3/4 - inch	\$11,684
1 – inch	\$28,670
1 ½ - inch	\$57,337
2 - inch	\$91,743

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the fourteenth day of June 2022, by the following vote:

AYES:

NOES:

ABSENT/ABSTAIN:

Michael Saunders, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of <u>Resolution 2022-XX</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this fourteenth day of June 2022.

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

RESOLUTION NO. 2022-XX

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT METER INSTALLATION FEES AND LABOR/EQUIPMENT FEES

WHEREAS, Georgetown Divide Public Utility District (the District) boundary encompasses approximately 68,000 acres and provides approximately 3,800 service connections with potable drinking water;

WHEREAS, District boundary encompasses a significant number of parcels that are not connected to the potable drinking water system;

WHEREAS, At the time a connection is made the District incurs specific installation cost including; meter cost, ancillary supplies, equipment cost and labor cost; and

WHEREAS, Article of 7 of District Ordinance 2007-01 established that the cost for new meter and installations shall be assessed at the actual cost to the District.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT as follows:

Meter and material fee is subject to procurement cost and may be adjusted to actual cost of the District; and

Beginning June 14, 2022, labor and equipment rates will be charged were applicable as follows:

Category	Rate		
Labor (per hour)			
Office Management	\$65		
Field Operator	\$45		
Office Staff	\$40		
Equipment (per hour)			
Dump Truck	\$37.19		
Flat Bed	\$28.65		
Service Truck	\$28.65		
Standard Pickup	\$25.30		
Ditch Witch	\$33.78		
Excavator	\$45.18		
Loader	\$95.00		
Air Compressor	\$20.80		

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the fourteenth day of June 2022, by the following vote:

AYES:

NOES:

ABSENT/ABSTAIN:

Michael Saunders, President, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true and correct copy of <u>Resolution 2022-XX</u> duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this fourteenth day of June 2022.

Adam Coyan, Clerk and Ex officio Secretary, Board of Directors GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT