Georgetown Divide PUD

Water & Wastewater Cost of Service and Rate Study

Draft Water and Wastewater Rates

August 13, 2024



Water Resources Economics

PROMOTING THE VALUE AND PRICE OF WATER SERVICE

Agenda

- Rate Study Process
- Treated and Raw Water
 - Financial Plan
 - Water Cost Allocation
 - Treated Water Rates
 - Raw Water Rates
- ALT Wastewater
 - Financial Plan
 - ALT Wastewater Rates

Rate Study Process

- **1. Policy framework**: Identify key policy objectives (revenue stability, customer affordability, conservation, etc.)
- 2. Financial plan: Develop multi-year cash flow projections to determine annual rate revenue requirement
- **3.** Cost-of-service analysis: Allocate the rate revenue requirement to customers based on proportional use of the water and wastewater system
- **4. Rate design**: Identify appropriate rate structure changes and calculate proposed rates
- 5. Documentation: Develop a study report to provide transparency and defensibility

Proposition 218 Requirements

- Proposition 218 requirements for water and wastewater rates:
 - Rates must be proportional to and may not exceed the cost of providing service
 - One customer class (residential, commercial, etc.) may not subsidize another customer class
 - Retail agencies typically conduct a "cost-of-service analysis" at least once every 5 years to ensure a sufficient nexus between rates and costs

Treated and Raw Water

Water Financial Plan Background

- The currently adopted rates are insufficient due to:
 - Last rate increase occurred on 2019
 - Since 2019, inflation has increased by over 19%
 - Substantial 5-year planned capital expenditures
 - Significant reduction in prior year water demand

Rates will not cover operating cost by 2025 The District will be in technical default by 2026 The District will run out of money by 2029 How much revenue does the District need to keep water safe and reliable?

Water Reserve Policy

Beginning Fund Balances (\$1,000s)	Beginning	Fund Balances	; (\$1,000s)
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Unrestricted Reserves SWTP Supplemental Charge Fund (Fund 112) State Revolving Fund (Fund 120) Total - Beginning Funds

FYE 2024 Reserve Policy

FYE 2024 Reserve Policy

\$4,666 Operating, capital, emergency
\$811 Restricted
\$1,147 Restricted
\$6,625

Reserve policy allows the District to:

 Fund unexpected operating expenses

Reserve Target (\$1,000s)

Unrestricted Reserves

Operating

Capital Replacement

Emergency

Total - Unrestricted Target

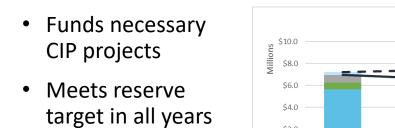
\$1,765 33% of operating expenses \$606 100% of 5-year average CIP \$2,000 \$2m for emergencies \$4,371

- Award contracts to construct CIP
- Mitigate risks associated with emergencies and/or natural disasters

Water Financial Plan – Status Quo

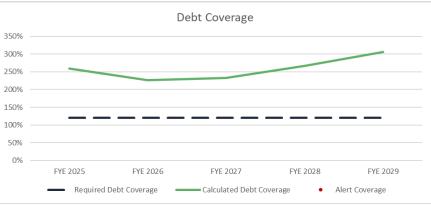


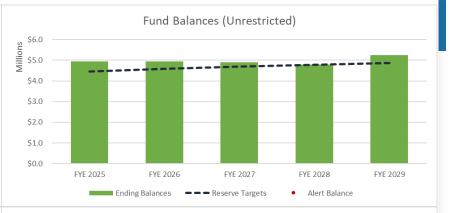
Water Financial Plan – Proposed Scenario

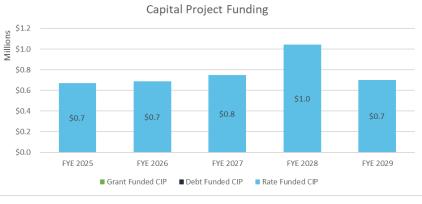


Fiscal Year	Rev. Adj.
2025	15%
2026	10%
2027	10%
2028	10%
2029	10%









How much does it cost to provide treated and raw water service?

Water Cost Allocation

Revenue Requirement	FYE 2024
Revenue Requirements	
Operating Requirement	\$5,367,275
Operating Revenue Offset	(\$564,181)
Capital Requirement	\$726,287
Walton Debt Service Requirement	\$25,058
SWTP Debt Service Requirement	\$587,357
Hydro Revenue Offset	(\$55,000)
Property Tax Revenue Offset	(\$2,000,000)
Total - Revenue Requirement	\$4,086,796

- Total revenue requirement is for treated and raw water combined
- Revenue requirement will be allocated between treated and raw water systems
- COS is "revenue neutral"

Water Cost Allocation

Annual Water Usage (AF)	Treated	Raw	Total
Treated Water (CF)	59,529,286	0	59,529,286
Untreated Irrigation (MI)	0	75,614	75,614
Conversion to AF			
Treated Water	1,367	0	1,367
Untreated Irrigation	0	3,749	3,749
Total - Water Usage (AF)	1,367	3,749	5,116

Allocation Basis	Treated	Raw	Total
Number of Connections	3,784	539	4,323
Annual Water Usage (AF)	1,367	3,749	5,116
Reliable Usage (AF)	9,566	3,749	13,316
Percent Allocation			
Number of Connections	88%	12%	100%
Annual Water Usage (AF)	27%	73%	100%
Reliable Usage (AF)	72%	28%	100%

- Allocation bases are used to allocate total costs between treated and raw water systems
- Reliability factor is 7x (raw water customers do not receive water for 7 months out of the year)

Operating Allocation

O&M Expenses	FYE 2024	Alloc. Basis	Treated	Raw	Total
Source of Supply (Dept. 5100)	\$666,717	Reliable Usage	72%	28%	100%
Raw Water (Dept. 5200)	\$668,546	Reliable Usage	72%	28%	100%
Water Treatment (Dept. 5300)	\$851,897	All Treated	100%	0%	100%
Treated Water T&D (Dept. 5400)	\$1,143,549	All Treated	100%	0%	100%
Admin & Customer Service (Dept. 5600)	\$2,036,566	Connections	88%	12%	100%
Additional Hydro Expenses	\$0	Water Usage	27%	73%	100%
Total - O&M Expenses	\$5,367,275		88%	12%	100%

Capital Asset Allocation

Capital Assets	FYE 2024	Alloc. Basis	Treated	Raw	Total
General & Administration	\$670,039	Connections	88%	12%	100%
Hydroelectric	\$135,360	Water Usage	27%	73%	100%
Source & Supply	\$38,351,901	Reliable Usage	72%	28%	100%
Raw Water T&D	\$4,439,506	Reliable Usage	72%	28%	100%
Treated Water T&D	\$10,806,718	All Treated	100%	0%	100%
Treatment	\$18,385,899	All Treated	100%	0%	100%
Total - Capital Assets	\$72,789,422		83%	17%	100%

Revenue Requirement Allocation

Revenue Requirement	FYE 2024	Alloc. Basis	Treated	Raw	Total
Revenue Requirements					
Operating Requirement	\$5,367,275	Operating	88%	12%	100%
Operating Revenue Offset	(\$564,181)	Operating	88%	12%	100%
Capital Requirement	\$726,287	Capital	83%	17%	100%
Walton Debt Service Requirement	\$25,058	All Treated	100%	0%	100%
SWTP Debt Service Requirement	\$587,357	SWTP Debt	100%	0%	100%
Hydro Revenue Offset	(\$55,000)	Water Usage	27%	73%	100%
Property Tax Revenue Offset	(\$2,000,000)	Connections	88%	12%	100%
Total - Revenue Requirement	\$4,086,796		90%	10%	100%

Revenue Requirement Allocation

Revenue Requirement	Treated	Raw	Total
Revenue Requirements			
Operating Requirement	\$4,737,366	\$629,909	\$5,367,275
Operating Revenue Offset	(\$497,968)	(\$66,213)	(\$564,181)
Capital Requirement	\$604,237	\$122,050	\$726,287
Walton Debt Service Requirement	\$25,058	\$0	\$25,058
SWTP Debt Service Requirement	\$587,357	\$0	\$587,357
Hydro Revenue Offset	(\$14,692)	(\$40,308)	(\$55,000)
Property Tax Revenue Offset	(\$1,750,636)	(\$249,364)	(\$2,000,000)
Total - Revenue Requirement	\$3,690,722	\$396,074	\$4,086,796
Current Rate Revenues	\$3, <i>708,267</i>	\$378,529	\$4,086,796
Difference (%)	-0.5%	4.6%	0.0%

- This scenario:
 - Is "Revenue neutral"
 - Has a reliability factor of 7
 - Splits property taxes by number of connections
 - Splits hydro revenues by water usage
- First year of rates are effective January 2025

Creating a rate structure that is defensible, while addressing affordability concerns

Treated Water Rate Structure and Costs

- Recommended changes:
 - Maintain uniform usage rate
 - Bi-monthly base charge for 3/4" and smaller
 - Treated supplemental charge based on meter size
 - Maintain low income discount
- Draft water rates in following slides include results of Cost of Service and financial plan:
 - Year 1: 15% increase for both Treated and Raw
 - Years 2-5: 10% increase each year for both Treated and Raw

Treated Bi-Monthly Base Charges

Treated Water Rates	Current	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029
Bi-Monthly Base Charge						
5/8 inch	\$61.76	\$72.32	\$79.56	\$87.52	\$96.28	\$105.92
3/4 inch	\$61.76	\$72.32	\$79.56	\$87.52	\$96.28	\$105.92
1 inch	\$61.76	\$112.88	\$124.18	\$136.60	\$150.26	\$165.30
1.5 inch	\$205.84	\$214.20	\$235.62	\$259.20	\$285.12	\$313.64
2 inch	\$329.34	\$335.84	\$369.44	\$406.40	\$447.04	\$491.76
3 inch	\$658.68	\$721.00	\$793.10	\$872.42	\$959.68	\$1,055.66
4 inch	\$1,029.20	\$1,288.56	\$1,417.42	\$1,559.18	\$1,715.10	\$1,886.62
Low Income Base Charge						
5/8 inch	\$30.88	\$36.16	\$39.78	\$43.76	\$48.14	\$52.96
3/4 inch	\$30.88	\$36.16	\$39.78	\$43.76	\$48.14	\$52.96
1 inch	\$30.88	\$56.44	\$62.10	\$68.30	\$75.14	\$82.66

- 1" meter sizes are charged differently than 5/8" and 3/4" meter sizes
- Maintaining 50% low income discount

Treated Supplemental Charge/Usage Rate

Treated Water Rates	Current	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029
Supplemental Charge						
5/8 inch	\$30.16	\$23.64	\$23.64	\$23.64	\$23.64	\$23.64
3/4 inch	\$30.16	\$23.64	\$23.64	\$23.64	\$23.64	\$23.64
1 inch	\$30.16	\$39.38	\$39.38	\$39.38	\$39.38	\$39.38
1.5 inch	\$30.16	\$78.76	\$78.76	\$78.76	\$78.76	\$78.76
2 inch	\$30.16	\$126.00	\$126.00	\$126.00	\$126.00	\$126.00
3 inch	\$30.16	\$275.64	\$275.64	\$275.64	\$275.64	\$275.64
4 inch	\$30.16	\$496.12	\$496.12	\$496.12	\$496.12	\$496.12
Usage Rate (per CF)						
All Customers	\$0.0268	\$0.0309	\$0.0340	\$0.0374	\$0.0412	\$0.0454

- 1" meter sizes are charged differently than 5/8" and 3/4" meter sizes
- Supplemental charge based on meter size

• Maintaining uniform usage rate

Treated Combined Bi-Monthly Meter Charges

Treated Water Rates	Current	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	# of Meters
Combined Meter Charges							
5/8 inch	\$91.92	\$95.96	\$103.20	\$111.16	\$119.92	\$129.56	3,046
3/4 inch	\$91.92	\$95.96	\$103.20	\$111.16	\$119.92	\$129.56	439
1 inch	\$91.92	\$152.26	\$163.56	\$175.98	\$189.64	\$204.68	273
1.5 inch	\$236.00	\$292.96	\$314.38	\$337.96	\$363.88	\$392.40	13
2 inch	\$359.50	\$461.84	\$495.44	\$532.40	\$573.04	\$617.76	6
3 inch	\$688.84	\$996.64	\$1,068.74	\$1,148.06	\$1,235.32	\$1,331.30	2
4 inch	\$1,059.36	\$1,784.68	\$1,913.54	\$2,055.30	\$2,211.22	\$2,382.74	5

 1" meter sizes are charged differently than 5/8" and 3/4" meter sizes

- Combined monthly
- base charge and supplemental charge

Treated Customer Bi-Monthly Impacts

5/8" meter

Usage Level	CF per Bill	Current Bill	Proposed Bill	Difference (\$)	Difference (%)
Very Low Usage (10th Percentile)	238	\$98.30	\$103.31	\$5.02	5.1%
Low Usage (25th Percentile)	670	\$109.88	\$116.66	\$6.79	6.2%
Median Usage	1,320	\$127.30	\$136.75	\$9.45	7.4%
Average Usage	2,600	\$161.60	\$176.30	\$14.70	9.1%
High Usage (75th Percentile)	2,640	\$162.67	\$177.54	\$14.86	9.1%
Very High Usage (90th Percentile)	5,266	\$233.05	\$258.68	\$25.63	11.0%

1" meter

Usage Level	CF per Bill	Current Bill	Proposed Bill	Difference (\$)	Difference (%)
Very Low Usage (10th Percentile)	238	\$98.30	\$159.61	\$61.32	62.4%
Low Usage (25th Percentile)	670	\$109.88	\$172.96	\$63.09	57.4%
Median Usage	1,320	\$127.30	\$193.05	\$65.75	51.7%
Average Usage	2,600	\$161.60	\$232.60	\$71.00	43.9%
High Usage (75th Percentile)	2,640	\$162.67	\$233.84	\$71.16	43.7%
Very High Usage (90th Percentile)	5,266	\$233.05	\$314.98	\$81.93	35.2%

Raw Water Rate Structure and Costs

- Recommended changes:
 - Maintain billing by miner's inches
 - 8 outside District customers do not pay property taxes, so they will not receive the benefit of the property tax revenue offset
- Draft water rates in following slides include results of COS and financial plan:
 - Year 1: 15% increase
 - Years 2-5: 10% increase each year

Raw Water Rates and Impacts

Raw Water Rates	Current	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029
Inside District						
1/2 Miner's Inch (per bill)	\$77.00	\$91.72	\$100.90	\$110.99	\$122.09	\$134.30
Per 1 Miner's Inch (per MI per bill)	\$154.20	\$183.44	\$201.79	\$221.97	\$244.17	\$268.59
Outside District						
1/2 Miner's Inch (per bill)	\$77.00	\$160.62	\$176.69	\$194.36	\$213.80	\$235.18
Per 1 Miner's Inch (per MI per bill)	\$154.20	\$321.23	\$353.36	\$388.70	\$427.57	\$470.33

Raw Water Customer	MI per month	Current Bill	Proposed Bill	Difference (\$)	Difference (%)
Inside District	1	\$154.20	\$183.44	\$29.24	19.0%
Outside District	1	\$154.20	\$321.23	\$167.03	108.3%

 Outside District customers do not receive property tax revenue offsets

ALT Wastewater

Wastewater Financial Plan Background

- The currently adopted rates are insufficient due to:
 - Last rate increase occurred on 2018
 - Since 2018, inflation has increased by over 21%
 - Credit provided has been over-extended

Expense are three times higher than revenue The wastewater fund will run out of money by 2026 How much revenue does the District need to dispose of wastewater?

ALT Wastewater Reserve Policy

Beginning Fund Balances (\$1,000s)	FYE 2024	Reserve Policy
Unrestricted Reserves	\$940	Operating, capital, emergency
Total - Beginning Funds	\$940	
Reserve Target (\$1,000s)	FYE 2024	Reserve Policy

Unrestricted Reserves

Operating

Capital Replacement

Emergency

Total - Unrestricted Target

\$172 33% of operating expenses

- \$13 100% of 5-year average CIP
- \$50 \$500k for emergencies

\$235

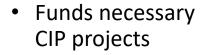
Reserve policy allows the District to:

- Fund unexpected operating expenses
- Award contracts to construct CIP
- Mitigate risks associated with emergencies and/or natural disasters

ALT Financial Plan – Status Quo



ALT Financial Plan – Proposed Scenario



Meets reserve ٠ target in all years

Fiscal Year	Rev. Adj.
2025	155%
2026	5%
2027	5%
2028	5%
2029	5%

140%

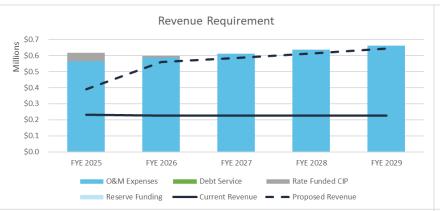
120% 100% 80%

60%

40%

20%

0%





\$0.0

FYE 2027

\$0.0

FYE 2028

Fund Balances



\$0.0

FYE 2029

How much does it cost provide the different types of wastewater service?

ALT Wastewater Customers

Customer Accounts	No. of Customers	% of Total
CDS Customer		
Developed Lot	135	12%
Undeveloped Lot	3	0%
Total - CDS Customer	138	13%
Non-CDS Customer		
Developed Lot	886	82%
Undeveloped Lot	61	6%
Total - Non-CDS Customer	947	87%
Total - Customers	1,085	100%

- Customer accounts are used to:
 - allocate costs between customers (CDS / Non-CDS)
 - determine unit costs for the rate

ALT Wastewater Cost Allocation

- No proposed changes to the ALT wastewater rate structure
- Allocation methodology stays the same and is as follows:

Rate Calculation	CDS O&M	Non-CDS O&M Permit Mgmt.	CIP
Bi-Monthly Fees (CDS Customer)			
Developed Lot	Х	Х	Х
Undeveloped Lot		Х	Х
Bi-Monthly Fees (Non-CDS Customer)			
Developed Lot		X X	
Undeveloped Lot		Х	

ALT Wastewater Revenue Neutral Rate

Rate Calculation	CDS O&M	Non-CDS O&M	Permit Mgmt.	CIP	COS Charge
Bi-Monthly Fees (CDS Customer)					
Developed Lot	\$59.19	\$0.00	\$8.89	\$5.14	\$73.23
Undeveloped Lot	\$0.00	\$0.00	\$8.89	\$5.14	\$14.03
Bi-Monthly Fees (Non-CDS Custon	ner)				
Developed Lot	\$0.00	\$18.14	\$8.89	\$0.00	\$27.03
Undeveloped Lot	\$0.00	\$0.00	\$8.89	\$0.00	\$8.89

ALT Wastewater Rates

Revenue Adjustment		155%	5%	5%	5%	5%
ALT Wastewater Rates	Current	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bi-Monthly Fees (CDS Customer)						
Developed Lot	\$99.77	\$186.74	\$196.08	\$205.89	\$216.19	\$227.00
Undeveloped Lot	\$35.20	\$35.81	\$37.61	\$39.50	\$41.48	\$43.56
Bi-Monthly Fees (Non-CDS Customer)						
Developed Lot	\$22.19	\$68.93	\$72.38	\$76.00	\$79.80	\$83.79
Undeveloped Lot	\$19.35	\$22.70	\$23.84	\$25.04	\$26.30	\$27.62

ALT Wastewater Impacts

ALT Wastewater Rates	Current	FY 2025	Difference (\$)	Difference (%)
Bi-Monthly Fees (CDS Customer)				
Developed Lot	\$99.77	\$186.74	\$86.97	87%
Undeveloped Lot	\$35.20	\$35.81	\$0.61	2%
Bi-Monthly Fees (Non-CDS Customer)				
Developed Lot	\$22.19	\$68.93	\$46.74	211%
Undeveloped Lot	\$19.35	\$22.70	\$3.35	17%



Water Resources Economics

PROMOTING THE VALUE AND PRICE OF WATER SERVICE

Contact Information

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ALT Wastewater Revenue Requirement

Revenue Requirement - FY 2024	Operating	Capital	Total
5-Year Average Expenses (FY 2025-2029)			
O&M Expenses	\$611,652		\$611,652
Debt Service		\$0	\$0
Rate Funded CIP		\$12,875	\$12,875
Total	\$611,652	\$12,875	\$624,527
% of Costs	98%	2%	100%
Revenue Requirement - FY 2024	\$202,234	\$4,257	\$206,491