Agenda Item No: 13.A



STAFF REPORT

Report To: Board of Supervisors **Meeting Date:** March 5, 2020

Staff Contact: Darren Schulz, Public Works Director

Agenda Title: For Possible Action: Discussion and possible action regarding initiation of the process to

change water and wastewater rates for the water and wastewater utilities, including increasing water rates by approximately 3% per year, and increasing wastewater rates by approximately 3.5% per year, beginning in FY 2021 and continuing through FY 2025. (Darren Schulz, DSchulz@Carson.org; Andy Hummel, AHummel@Carson.org; and Eddy

Quaglieri, EQuaglieri@Carson.org)

Staff Summary: On February 7, 2019, the Board of Supervisors approved a contract with Farr West Engineering to prepare a water and wastewater rate refresh study of the water and wastewater rates. The objective of the study was to review the financial position of the respective funds; incorporate current and projected operating, maintenance, and capital improvement plan costs; and to determine revenue requirements to meet the projected expense requirements. Farr West Engineering will present the results and recommendations of the study. Upon approval from the Board of Supervisors, staff would initiate the process to change water and wastewater rates, which includes the preparation of a business impact statement and revisions to the Carson City Municipal Code to

effectuate the rates.

Agenda Action: Formal Action / Motion Time Requested: 30 minutes

Proposed Motion

I move to direct staff to initiate the process of changing water and wastewater rates.

Board's Strategic Goal

Sustainable Infrastructure

Previous Action

On February 7, 2019, the Board of Supervisors approved a contract with Farr West Engineering to prepare a refresh update of the water and wastewater rates. On January 13, 2020, the Utility Finance Oversight Committee was presented with the results and recommendations of the study. The Committee recommended proceeding to the Board of Supervisors with the results and recommendations.

Background/Issues & Analysis

Carson City undertook a comprehensive rate study in 2013 for the water and wastewater utilities which resulted in significant changes to the rate structures, customer class allocations and a 5-year rate increase program. This previous rate increase program concluded with final increases occurring July 1, 2017. In 2019, Farr West Engineering was awarded a contract to update the rate models created in the 2013 rate study effort. Farr West Engineering is an expert in conducting utility rate studies and provides these services to multiple clients in the region. The update study includes reviewing and analyzing current rate and customer class data, operational and maintenance costs, projected Capital Improvement Plan (CIP) expenditures, projected rate of increases for

the various cost and growth categories, and current policy objectives to update the City's current rate model and provide rate recommendations for the upcoming 5-year period. Farr West Engineering recommends increasing water rates by 3% per year, and increasing wastewater rates by 3.5% per year, beginning in FY 2021 and continuing through FY 2025.

Applicable Statute, Code, Policy, Rule or Regulation	
N/A	
Financial Information	
Is there a fiscal impact? Yes	
Market Found 10000500	
If yes, account name/number: Water Fund - 5203502	
Wastewater Fund - 5103201	
Is it currently budgeted? No	
Explanation of Fiscal Impact: The fiscal impact will depend	d on how the Board would like to proceed
<u>Alternatives</u>	
The Board may direct staff to proceed with other options.	
Attachments:	
FINAL REVISED PRESENTATION.pdf	
Board Action Taken:	
	Aye/Nay
Motion: 1) 2)	

(Vote Recorded By)

Water and Wastewater Rate Study Refresh

Presentation to Board of Supervisors

March 5, 2020



Water & Wastewater Utility Rates

Presentation Overview

- Background of existing rates and connection fees
- Review of financial policies and FCS model assumptions
- 3. Review of Farr West updates to FCS model
- 4. FCS model results for water and wastewater rates changes 2021-2025

Background

- 2012 FCS Group Cost of Service Rate Study
 - Established rates effective FY 2014-18 that phased in the cost of service for each customer class over the study period
 - Last rate increase was effective Jul 1, 2017
 - Wastewater rate = 15% yearly increase
 - Water rate = 6.5% yearly increase
 - Due to the recession, BOS voted against FCS recommended connection charges and remained at the existing connection fee schedules

Background Cont.

- In 2015, the City adopted a water & wastewater connection fee ordinance that:
 - Established a phased in connection fee increase FY 2016 through 2021 with the last increase effective Jul 1, 2020
 - The indexing of the connection fees will begin Jul 1, 2021. Connection fees to increase yearly based on the Engineering News-Record Construction Cost Index (ENR CCI) with a cap of 3%

Connection Fee	Effective 7/1/2019	Effective 7/1/2020
Wastewater per SERC	\$3,710	\$4,493
Water per WERC (5/8" meter)	\$2,843	\$3,440

Background Cont.

- In 2019, Carson City contracted Farr West to update the existing FCS Models to ensure continued compliance with City financial policies
 - Farr West did not modify the FCS model approach
 - Approach being evaluated is an "across-the-board" rate change in which each customer class would experience the same percentage rate change

1. Operating Reservesⁱ:

- Wastewater: 30 to 45 days of O&M expense
- Water: 60 to 90 days of O&M expense
- When operating reserves exceed the maximum target, excess cash is earmarked to the capital account to cover capital projects

2. Capital Account Minimum Target Balance:

2% of system fixed assets

3. Capital Funding:

 Model assumes that capital projects that are not funded through the capital fund balance will be funded through bond sales

4. Debt Service Coverage Goals:

- Rates include a minimum coverage factor of 1.00 times annual debt service
- Internal goal of 1.25 times annual debt service
- Debt-to-equity ratio goal of no greater than 50% debt to 50% equity (cash)

5. System Reinvestment Funding:

 Funded through rates using percent of annual depreciation expense as the benchmark for the appropriate funding level

Water System Reinvestment Funding Strategy

2013	2014	2015	2016	2017	2018	2019
0%	20%	40%	60%	80%	100%	100%
\$ -	\$ 619,305	\$ 1,268,792	\$ 1,932,989	\$ 2,644,062	\$ 3,384,510	\$ 3,253,981

Wastewater System Reinvestment Funding Strategy

2013	2014	2015	2016	2017	2018	2019
0%	0%	20%	40%	60%	80%	80%
\$ -	\$ -	\$ 640,672	\$ 1,378,192	\$ 2,234,609	\$ 3,117,947	\$ 3,690,000

6. Economic & Financial Factors

 Govern the forecast basis for revenues, expenditures, and connection fee increases

		2020	2021	2022	2023	2024	2025
General Cost Inflation	Based on CPI	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Construction Cost Inflation		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Labor Cost Inflation	Per City - 3/22/19	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Benefits Cost Inflation	Per City - 3/22/19	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Engineering News Record's Construction Cost Index*		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Marlette Cost Inflation*		0.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Fund Earnings	Per City Approval 7/29/19	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Customer Growth	Per City - 3/22/19	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
Cumulative Growth		0.70%	1.40%	2.11%	2.83%	3.55%	4.27%

^{*} Factor added since the FCS 2012 analysis. Marlette Cost Inflation only included in water rate model.

Farr West Efforts Made to Update FCS Models

Farr West's Process to Update Models

- 1. Obtained updated financial and utility data
 - FY 2020 budget revenues and expenditures
 - Existing debt schedules
 - 5- and 20-year Capital Improvement Plans (CIPs)
 - Fixed assets list including asset, cost, date purchased, and useful life
 - Customer counts and water usage data
- 2. Entered all updated data into the FCS model
- 3. Applied the economic and financial factors to the revenue and expenditures to forecast future costs



To comply with the financial policies, the FCS Model suggested the following rate increases:

	FYE									
	2021	2021 2022 2023 2024 2025								
Model Suggested Increase to Generate Req. Revenue	4.09%	3.17%	2.13%	1.31%	4.28%					

Farr West recommends a 3% yearly increase starting Jul 1, 2020

3% yearly increases across-the-board to all customer classes starting Jul 1, 2020

- Meets financial goals and policies
 - Operating fund remains between 60 to 90 days of O&M expense
 - Capital fund remains above minimum target balance (2% of system fixed assets)
- Cash funds CIP until FY 2024
 - \$12.5M in bond sales to fund CIP projects in 2024 and 2025. Quill Treatment Plant anticipated design in 2024 & construction in 2025
- Funds system reinvestment (depreciation) 100% throughout study period

2020	2021	2022	2023	2024	2025
100%	100%	100%	100%	100%	100%
\$ 3,285,380	\$ 3,340,738	\$ 3,426,522	\$ 3,515,995	\$ 3,585,551	\$ 3,705,884

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Water CIP 2020-2025

Description		TOTAL FOR	RECASTED	PROJECT (COSTS: FYE	
Description	2020	2021	2022	2023	2024	2025
Equipment & Fleet Replacement Program	655,000	275,000	215,000	265,000	265,000	250,000
Well Rehabilitation/Replacement Program		200,000	200,000	200,000	1,200,000	200,000
Water Line Replacement/Rehabilitation Program	743,000	2,042,000	2,100,000	2,100,000	2,100,000	2,100,000
Tank Maintenance Program	500,000		350,000		300,000	
Emergency Generator Program			200,000			250,000
Pumps Motor Program	150,000	150,000	150,000	150,000	150,000	150,000
Communications-Fiber-SCADA		80,000	75,000	75,000		70,000
Facility Improvements	80,000	195,000	175,000	175,000	175,000	125,000
Quill Treatment Plant Rehabilitation					1,000,000	9,000,000
Pressure Reducing Stations	100,000			125,000		75,000
Airport Road Wastewater and Water Main	110,000					
Prison Hill Booster	429,896					
Local 1 Booster		151,000	629,000			
Arsenic Treatment Plant						225,000
Medical Parkway Booster Pump Station		950,000				-10
Booster Stations						640,00C ¹⁸
Total Capital Projects	2,767,896	4,043,000	4,094,000	3,090,000	5,190,000	13,085,000

Water CIP 2020-2025

Water Line Replacement/Rehabilitation Program

- Carson City water collection system consists of 334 miles of pipeline.
- Approximately 55% is made of materials susceptible to corrosion from soil, groundwater and other conditions (i.e. not PVC).
- CIP funding based on replacing all steel, cast iron, old ductile iron and 35% of asbestos mains over next 50 years.

Quill Treatment Plant Rehabilitation

- Surface water plant is currently 30 years old, serves as conjunctive water management sources in order to keep groundwater as drought reserves.
- Currently only able to treat 1.5 million gallons per day (mgd), project would take the plant to a 6 mgd capacity
- Environmental Protection Agency regulations have disallowed City to use two of the three water sources.
 - Disinfection Byproduct Rule 1 & 2 (2002/2006)
 - Marlette/Hobart Water
 - Long Term Surface Water Treatment Rule (2016)
 - Ash Creek Water (free water source to City)

Water Model Debt Services

\$12.5M in bond sales to fund CIP projects in 2024 and 2025

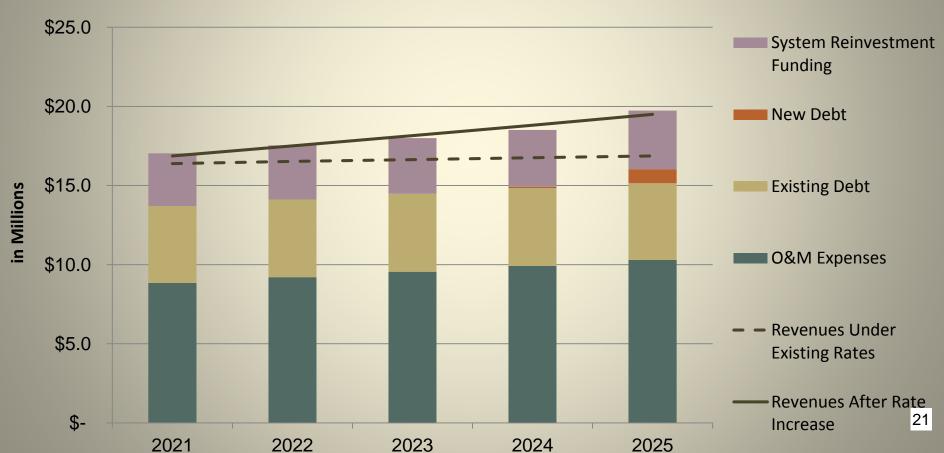
 Quill Treatment Plant anticipated design (2024) & construction (2025)

	2021	2022	2023	2024	2025	2026
Existing Debt Service Payment	4,857,850	4,901,289	4,925,884	4,915,316	4,839,789	4,849,432
Estimated New Debt Service Payment				86,833	886,171	889,754
Total Estimated Debt Service	4,857,850	4,901,289	4,925,884	5,002,149	5,725,960	5,739,186

	2027	2028	2029	2030	2031	2032	2033
Existing Debt Service Payment	4,899,404	3,169,104	3,180,890	3,177,847	3,186,263	2,222,509	2,252,485
Estimated New Debt Service Payment	889,754	1,107,120	1,107,120	1,107,120	1,107,120	1,107,120	1,107,120
Total Estimated Debt Service	5,789,158	4,276,224	4,288,010	4,284,967	4,293,383	3,329,629	3,359,605

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3% rate increase across-the-board every year for 5 years starting July 1, 2020



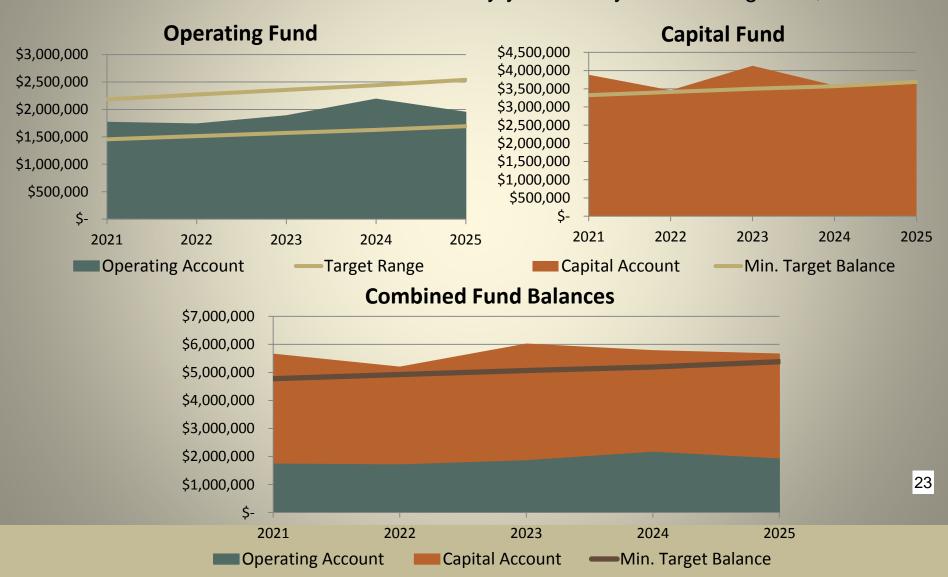
Water Rates Model Results

3% rate increase across-the-board every year for 5 years starting July 1, 2020



Water Rates Model Results

3% rate increase across-the-board every year for 5 years starting Jul 1, 2020



Water Rates Model Results

3% rate increase across-the-board every year for 5 years starting Jul 1, 2020

Customer Class	Existing Rates ⁱ	2021 Rates	2022 Rates	2023 Rates	2024 Rates	2025 Rates
Flat Rates						
Residential 5/8" Meter	\$ 27.39	\$ 28.21	\$ 29.06	\$ 29.93	\$ 30.83	\$ 31.79
Multifamily Per Unit	\$ 9.70	\$ 9.99	\$ 10.29	\$ 10.60	\$ 10.92	\$ 11.24
Commercial 1" Meter	\$ 41.68	\$ 42.93	\$ 44.22	\$ 45.54	\$ 46.91	\$ 48.32
Residential Tiered Volum	ne Charges	per kgal				
0 – 5 kgal	\$ 1.76	\$ 1.81	\$ 1.87	\$ 1.92	\$ 1.98	\$ 2.04
6 – 30 kgal	\$ 3.07	\$ 3.16	\$ 3.26	\$ 3.35	\$ 3.46	\$ 3.56
31+ kgal	\$ 4.91	\$ 5.06	\$ 5.21	\$ 5.37	\$ 5.53	\$ 5.69
Volume Charges per kg	jal					
Multifamily	\$ 1.99	\$ 2.05	\$ 2.11	\$ 2.17	\$ 2.24	\$ 2.31
Commercial	\$ 3.53	\$ 3.64	\$ 3.74	\$ 3.86	\$ 3.97	\$ 4.09
Large Commercial	\$ 3.71	\$ 3.82	\$ 3.94	\$ 4.05	\$ 4.18	\$ 4.30

i - Existing rates are effective 7/1/2017

Water Model Rate Results – Alternative A

Water Rates - Alternative A

Alternative A considers moving the Quill Treatment Plant Rehabilitation design and construction projects from FY 2024 and 2025 to 2021 and 2022, respectively.

Benefits:

- Potential to benefit from lower loan interest rates if the project takes place sooner, potential for lower debt payments
- The Quill Treatment Plant will receive needed upgrades sooner, allowing the City to treat water it is currently not able to treat

Drawbacks:

- Larger rate increase is needed in first three years to fund the FY 2021, 2022 and 2023 CIP and to comply with financial policies
- The water system will incur debt sooner in the study period (FY 2021 and 2022)

Water CIP 2020-2025 - Alt. A

Description		TOTAL FOR	RECASTED	PROJECT (COSTS: FYE	
Description	2020	2021	2022	2023	2024	2025
Equipment & Fleet Replacement Program	655,000	275,000	215,000	265,000	265,000	250,000
Well Rehabilitation/Replacement Program		200,000	200,000	200,000	1,200,000	200,000
Water Line Replacement/Rehabilitation Program	743,000	2,042,000	2,100,000	2,100,000	2,100,000	2,100,000
Tank Maintenance Program	500,000		350,000		300,000	
Emergency Generator Program			200,000			250,000
Pumps Motor Program	150,000	150,000	150,000	150,000	150,000	150,000
Communications-Fiber-SCADA		80,000	75,000	75,000		70,000
Facility Improvements	80,000	195,000	175,000	175,000	175,000	125,000
Quill Treatment Plant Rehabilitation		1,000,000	9,000,000			
Pressure Reducing Stations	100,000			125,000		75,000
Airport Road Wastewater and Water Main	110,000					
Prison Hill Booster	429,896					
Local 1 Booster		151,000	629,000			
Arsenic Treatment Plant						225,000
Medical Parkway Booster Pump Station		950,000				
Booster Stations						640,000 ²⁷
Total Capital Projects	2,767,896	5,043,000	13,094,000	3,090,000	4,190,000	4,085,000

Water Model Rate Results – Alt. A

To comply with the financial policies, the FCS Model suggested the following rate increases:

	FYE							
	2021	2021 2022 2023 2024 2025						
Model Suggested Increase to Generate Req. Revenue	4.32%	6.34%	4.75%	3.29%	1.81%			

Farr West recommends a 4.5% yearly increase effective FY 2021-2023 then a 3% yearly increase FY 2024-2025

Water Model Rate Results – Alt. A

4.5% increases FY 2021-23 then 3% increase FY 2024-25

- Meets financial goals and policies
 - Operating fund remains between 60 to 90 days of O&M expense
 - Capital fund remains above minimum target balance (2% of system fixed assets)
- Cash funds CIP in FY 2023
 - \$10.9M in bond sales to fund CIP projects in 2021 and 2022. Quill Treatment Plant proposed design in 2021 & construction in 2022 under alternative A.
- Funds system reinvestment (depreciation) 100% throughout study period

2020	2021	2022	2023	2024	2025
100%	100%	100%	100%	100%	100%
\$ 3,285,380	\$ 3,340,738	\$ 3,447,740	\$ 3,733,904	\$ 3,803,460	\$ 3,900,607

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Water Model Debt Services – Alt. A

~\$10.9M in bond sales to fund CIP projects in 2021 and 2022

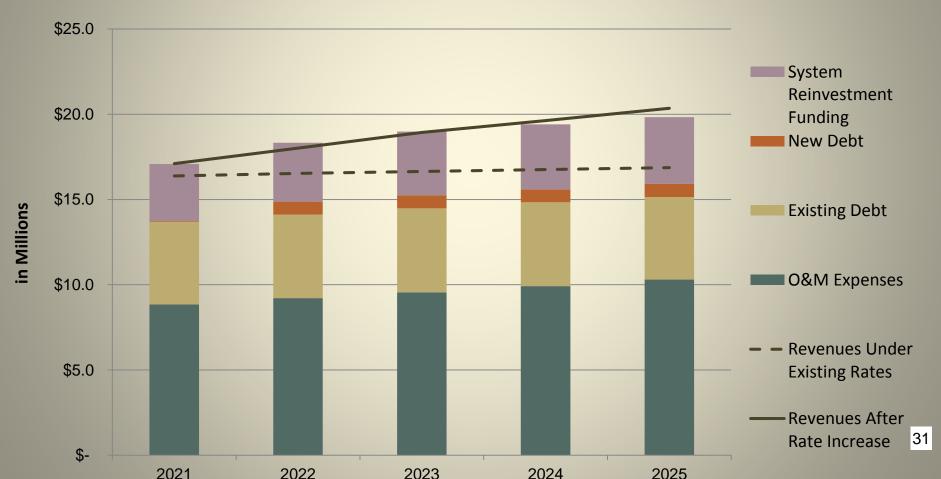
 Quill Treatment Plant anticipated design (2021) & construction (2022)

	2021	2022	2023	2024	2025	2026
Existing Debt Service Payment	4,857,850	4,901,289	4,925,884	4,915,316	4,839,789	4,849,432
Estimated New Debt Service Payment	36,587	764,711	764,711	764,711	783,048	783,048
Total Estimated Debt Service	4,894,436	5,666,000	5,690,595	5,680,026	5,622,837	5,632,479

	2027	2028	2029	2030	2031	2032	2033
Existing Debt Service Payment	4,899,404	3,169,104	3,180,890	3,177,847	3,186,263	2,222,509	2,252,485
Estimated New Debt Service Payment	783,048	819,060	819,060	819,060	819,060	819,060	819,060
Total Estimated Debt Service	5,682,451	3,988,163	3,999,949	3,996,907	4,005,322	3,041,568	3,071,54 ₃₀

Water Model Rate Results – Alt. A

4.5% increases FY 2021-23 then 3% increases yearly FY 2024-25



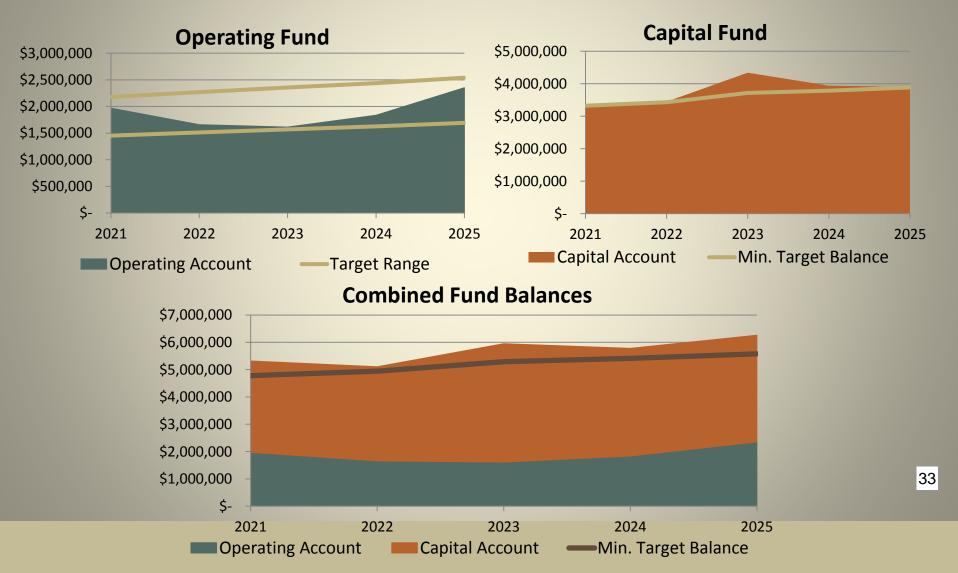
Water Rates Model Results – Alt. A

4.5% increases FY 2021-23 then 3% increase FY 2024-25



Water Rates Model Results – Alt. A

4.5% increases FY 2021-23 then 3% increase FY 2024-25



Water Rates Model Results – Alt. A

4.5% increases FY 2021-23 then 3% increase FY 2024-25

Customer Class	Existing Rates ⁱ	2021 Rates	2022 Rates	2023 Rates	2024 Rates	2025 Rates			
Flat Rates									
Residential 5/8" Meter	\$ 27.39	\$ 28.62	\$ 29.91	\$ 31.26	\$ 32.19	\$ 33.16			
Multifamily Per Unit	\$ 9.70	\$ 10.14	\$ 10.59	\$ 11.07	\$ 11.40	\$ 11.74			
Commercial 1" Meter	\$ 41.68	\$ 43.56	\$ 45.52	\$ 47.56	\$ 48.99	\$ 50.46			
Residential Tiered Volume Charges per kgal									
0 – 5 kgal	\$ 1.76	\$ 1.84	\$ 1.92	\$ 2.01	\$ 2.07	\$ 2.13			
6 – 30 kgal	\$ 3.07	\$ 3.21	\$ 3.35	\$ 3.50	\$ 3.61	\$ 3.72			
31+ kgal	\$ 4.91	\$ 5.13	\$ 5.36	\$ 5.60	\$ 5.77	\$ 5.94			
Volume Charges per kgal									
Multifamily	\$ 2.08	\$ 2.17	\$ 2.11	\$ 2. 27	\$ 2.34	\$ 2.41			
Commercial	\$ 3.53	\$ 3.69	\$ 3.85	\$ 4.03	\$ 4.15	\$ 4.27			
Large Commercial	\$ 3.71	\$ 3.88	\$ 4.05	\$ 4.23	\$ 4.36	\$ 4.49			



To comply with the financial policies, the FCS Model suggested the following rate increases:

	FYE							
	2021	2021 2022 2023 2024 2025						
Model Suggested Increase to Generate Req. Revenue	3.84%	3.81%	2.97%	3.64%	1.92%			

Farr West recommends a 3.5% yearly increase starting Jul 1, 2020

Wastewater Model Rate Results

3.5% yearly increases across-the-board to all customer classes starting Jul 1, 2020

- Meets financial goals and policies
 - Operating fund remains between 60 to 90 days of O&M expense
 - Capital fund remains above minimum target balance (2% of system fixed assets)
- Cash funds CIP through FY 2025
- Funds system reinvestment (depreciation)
 100% by FY 2025

2020	2021	2022	2023	2024	2025	
80%	83%	85%	88%	95%	100%	37
\$ 4,038,134	\$ 4,250,599	\$ 4,458,115	\$ 4,704,408	\$ 5,178,746	\$ 5,560,283	

Wastewater CIP 2020-2025

Description	TOTAL FORECASTED PROJECT COSTS: FYE						
Description	2020	2021	2022	2023	2024	2025	
Lift Station Reconstruction/Expansion	550,000	220,000			500,000		
Sewer Line Replacement / Rehab	2,084,750	2,337,000	2,497,500	2,490,000	2,544,000	2,500,000	
Communications-Fiber-SCADA	40,000	40,000	40,000	40,000	40,000	40,000	
WRRF Equipment Replacement	300,000	360,000	333,000	360,000	300,000	360,000	
Facility Upgrade WRRF / Lines	225,000	175,000	175,000	175,000	175,000	175,000	
Groundwater Protection-Sewer Maintenance	50,000	50,000	50,000	50,000	50,000	50,000	
WRRF - Electrical Retrofit	100,000	1,190,000					
Reuse-Brunswick Canyon Reservoir Inlet/Outlet Rehab		350,000					
Reuse-Distribution System Rehab			500,000	500,000	650,000	1,108,000	
Equipment & Fleet Replacement Program	220,000	105,000	195,000	235,000	65,000	100,000	
Secondary Clarifier Effluent Pipeline Upsize			255,000				
Headworks-Screw Pump Rehab				182,000			
Dewatering System Rehab			580,000		126,000		
Primary Clarifier 2 Rehab						792,000	
Facility Plan Update					250,000		
WRRF Expansion (Design) FY 29							
WRRF Expansion (Construction) FY 30						38-	
WRRF Warehousing				650,000		30	
Clear Creek Sewer		1,000,000					
Total Capital Projects	3,569,750	5,827,000	4,625,500	4,682,000	4,700,000	5,125,000	

Wastewater CIP 2020-2025

Sewer Line Replacement / Rehab

- Carson City wastewater collection system consists of 230 miles of pipeline.
- Approximately 44% is made of materials susceptible to wear and erosion from wastewater gases (i.e. not PVC).
- CIP funding based on addressing those lines over next 40 years.

WRRF Expansion

- Currently treating 5.2 mgd average, permitted for 6.9 mgd. Buildout of Carson City estimated at 8.3 mgd.
- Discharge Permit requires facility planning at 85% of capacity (5.9 mgd) to provide sufficient time for design and expansion before it's needed.
- Expansion anticipated to address flow capacity and possibly tightening regulations.

Clear Creek Sewer

- Carson City's share of replacement of the Clear Creek Sewer Main.
- Required if Special Assessment District moves forward.

Wastewater Model Debt Services

\$19.2M in bond sales to fund CIP projects in 2030

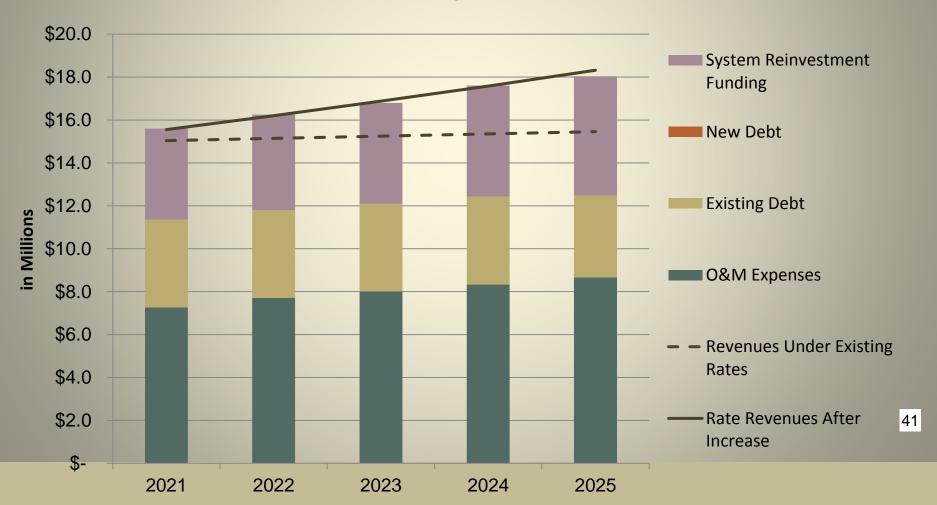
WRRF Expansion anticipated design (2029) & construction (2030)

	2021	2022	2023	2024	2025	2026
Existing Debt Service Payment	4,085,892	4,085,932	4,078,077	4,095,901	3,810,658	3,813,173
Estimated New Debt Service Payment						
Total Estimated Debt Service	4,085,892	4,085,932	4,078,077	4,095,901	3,810,658	3,813,173

	2027	2028	2029	2030	2031	2032	2033
Existing Debt Service Payment	3,813,741	3,812,363	3,809,023	3,813,383	3,625,636	3,529,723	3,373,393
Estimated New Debt Service Payment				1,353,530	1,381,132	1,381,132	1,381,132
Total Estimated Debt Service	3,813,741	3,812,263	3,809,023	5,166,913	5,006,767	4,910,855	4,754,525

Wastewater Model Rate Results

3.5% rate increase across-the-board every year for 5 years starting July 1, 2020



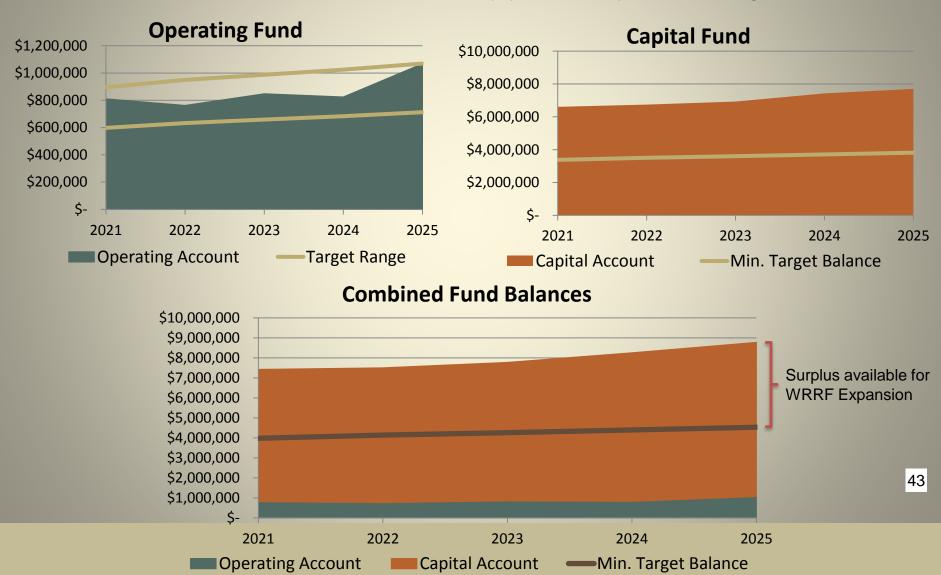
Wastewater Rates Model Results

3.5% rate increase across-the-board every year for 5 years starting Jul 1, 2020



Wastewater Rates Model Results

3.5% rate increase across-the-board every year for 5 years starting Jul 1, 2020



Wastewater Rates Model Results

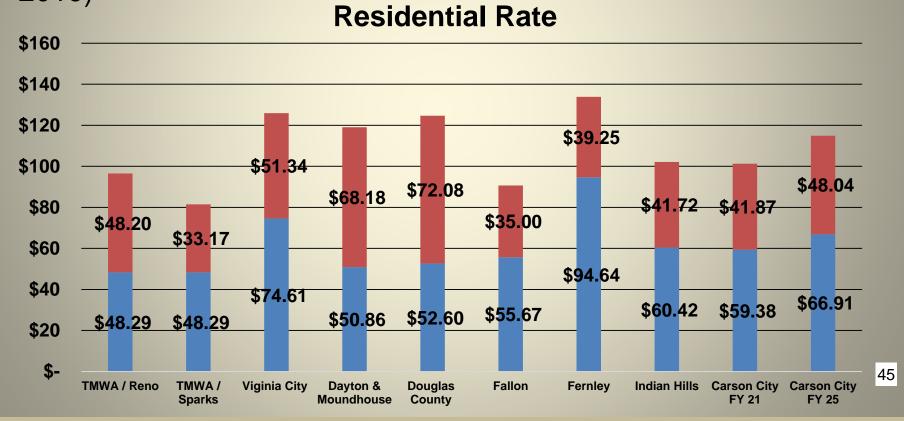
3.5% rate increase across-the-board every year starting Jul 1, 2020

Customer Class	Existing Rate ⁱ	2021 Rates	2022 Rates	2023 Rates	2024 Rates	2025 Rates			
Flat Rates									
Single Family									
Residential	\$ 40.45	\$ 41.87	\$ 43.33	\$ 44.85	\$ 46.42	\$ 48.04			
Multifamily Residential	\$ 27.18	\$ 28.13	\$ 29.12	\$ 30.13	\$ 31.19	\$ 32.28			
Metered Rates									
Low-Strength Commercia	Low-Strength Commercial								
Base Charge	\$ 40.45	\$ 41.87	\$ 43.33	\$ 44.85	\$ 46.42	\$ 48.04			
Volume Charge	\$ 6.78	\$ 7.02	\$ 7.26	\$ 7.52	\$ 7.78	\$ 8.05			
High-Strength Commercial									
Base Charge	\$ 40.45	\$ 41.87	\$ 43.33	\$ 44.85	\$ 46.42	\$ 48.04			
Volume Charge	\$ 11.98	\$ 12.40	\$ 12.83	\$ 13.28	\$ 13.75	\$ 14.23			

i – Existing rates are effective Jul 1, 2017

Rate Comparisons

- Water rate for smallest residential meter size & 12 kgal consumption
- All rates are effective Jul 1, 2020 except for Carson City FY 25, TMWA (Oct 1, 2019), Fallon (Jan 1, 2019), & Douglas County (Jul 1, 2019)



Rate Recommendations Based on City Financial Policies

- Water rate increase 3% yearly starting Jul 1, 2020 through Jul 1, 2024
- Wastewater rate increase 3.5% yearly starting Jul 1, 2020 through Jul 1, 2024
- Index both water and wastewater rates to CPI with a minimum of 0% and a maximum of 3% starting Jul 1, 2025
- Consider providing \$10,000 of funding towards the Utility Rate Payer Assistance Program (URAP)
- Maintain updated rate models throughout study periods to track impacts to both utilities
- Conduct rate refreshes every 5 years to ensure that indexed rates
 are meeting the operating and capital needs for both utilities

Next Steps

If the rate changes are approved, next steps include:

- Draft and submit a business impact statement
- Draft municipal code revisions for approval

Questions & Discussion

Thank you!

