REQUEST FOR COUNCIL ACTION

Date:December 7, 2020 Item No.: 7.d

Department Approval

City Manager Approval

Michelle Betrick

Item Description: Review the 2021 Utility Rate Adjustments

BACKGROUND

The City's utility or *enterprise* operations are funded primarily by user fees and are operated as separate, stand-alone functions. Over the past several months, city staff has been reviewing the City's utility operations to determine what customer rate adjustments are necessary for 2021. The City engaged Ehlers to perform a comprehensive utility rate study of the Water and Storm Drainage Funds based on the cash situations in these two funds.

Operational Review

Water Fund Operations

We engaged Ehlers to perform a utility study on this fund which was presented at the October 19th Council meeting. Ehlers presented two separate options. Both introduce new water usage tier rates for Residential, Commercial and Apartment properties. Both options realign who pays for water versus who uses water to provide more equity and the definition of fixed costs versus variable costs adheres to the industry standards. Option 2 provides for an average of capital costs to be included in the fixed costs, which is more in line with our current structure. Option 1 would put the average capital costs on the usage/variable side of the rates. Public Works Director, Finance Director and City Manager are supportive of Option 2 based on the inclusion of the capital costs in the fixed rate and the more moderated impact on the non-residential users. Option 2 provides reduced costs for residential users and reinforces conservation rates.

Storm Drainage Operations

The City provides for the management of storm water drainage to prevent flooding and pollution control, as well as the street sweeping program. The cash balance in this fund had been steadily declining so this fund was included in the utility rate study done by Ehlers. The study showed that the current rate structure is equitable and needs a steady increase of 4% for the next four years to build up some reserves to pay for the capital needs in this fund. After four years, the rate increases will level off to about 1% annually thereafter. Staff will continue to monitor this fund and the needed capital projects.

Sanitary Sewer Operations

The City maintains a sanitary sewer collection system to ensure the general public's health and general welfare. For 2021, the operational costs are expected to decrease by 2.84% mainly as a result of a decrease in the costs charged by the Metropolitan Council Environmental Services Division (MCES). While they have increased costs of treatment, the City's share of flow has decreased the overall cost to

the City of Roseville. The capital outlay that is factored into the rates is based on a 5 year average and that number has increased from \$958,000 to \$1,349,000 based on a correction in that formula linkage.

The Base rates require a 3.5% increase to cover the fixed costs which are operational and capital only. The usage rates require a modest 1.92% increase to cover the MCES total costs.

Recycling Operations

 The recycling operation provides for the contracted curbside recycling pickup throughout the City and related administrative costs. The primary operating cost is the amounts paid to a contractor to pick up recycling materials. 2020 had significant increases as a result of higher contractor costs. The market for recycled materials is a global one, and it had declined significantly during the prior year. For 2021, which is the last year of our current contract, the City has budgeted a 3.74% increase in the contract costs. A customer rate increase from \$9 per quarter to \$9.36 (4%) has been proposed to accommodate the higher costs.

Recommended Rates for 2021

The following table provides a detailed breakdown of the proposed rates including the rate structure which depicts how the operating cost burden is distributed to various customer types. The table also shows the Water rate options from the Ehlers Utility Rate Study.

	2020	2021		Ehlers Utility	Rate Study
Water Base Rate Category	Rate	Rate	Comments	Option 1	Option 2
Single-Family Residential	\$ 62.10	\$ 63.34	Standard SF rate	18.88	34.57
Single-Family Residential: Low-Income Discount	40.35	41.17	Standard SF rate x 0.65	18.88	34.57
Non-SF Residential (5/8" Meter)	62.10	63.34	Standard SF rate	18.88	34.57
Non-SF Residential (1.0" Meter)	77.65	79.20	Standard SF rate x 1.25	47.20	86.43
Non-SF Residential (1.5" Meter)	124.00	126.48	Standard SF rate x 2.00	94.40	172.85
Non-SF Residential (2.0" Meter)	233.00	237.66	Standard SF rate x 3.75	151.04	276.56
Non-SF Residential (3.0" Meter)	465.80	475.12	Standard SF rate x 7.50	302.08	553.12
Non-SF Residential (3.0" Compound Meter)				330.40	604.98
Non-SF Residential (4.0" Meter)	931.65	950.28	Standard SF rate x 15.00	472.00	864.25
Non-SF Residential (4.0" Compound Meter)				566.40	1,037.10
Non-SF Residential (6.0" Meter)	1,758.00	1,900.62	Standard SF rate x 30.00	1,510.40	2,765.60
** Low Income Discount on sewer only					
	2020	2021		Ehlers Utility	Rate Study
Water Usage Rate Category	Rate	Rate	<u>Comments</u>	Option 1	Option 2
SF Residential: Up to 15,000 gals./qtr				3.90	3.18
SF Residential: 15,001 to 30,000 gals./qtr	\$ 2.30	\$ 3.45	Standard SF rate	4.88	3.98
SF Residential: Over 30,000 gals./qtr (winter rate)	2.55	3.80	Standard SF rate +10%	6.10	4.98
SF Residential: Over 30,000 gals./qtr (summer rate)	2.75	4.15	Standard SF rate +20%	6.10	4.98
Apartments: Up to 8,000 gals/unit/qtr			per unit basis	3.90	3.18
Apartments: 8,001-15,000 gals/unit/qtr			per unit basis	4.88	3.98
Apartments: Over 15,000 gals./unit/qtr			per unit basis	6.10	4.98
Commercial: Up to 60,0000 gals./qtr				3.90	3.18
Commercial: 60,001 to 400,0000 gals./qtr				4.88	3.98
Commercial: Over 400,000 gals./qtr				6.10	4.98
Non-SF Residential (winter rate)	3.00	4.50	Standard SF rate +30%		
Non-SF Residential (summer rate)	3.20	4.84	Standard SF rate +40%		
Irrigation Water Usage				4.97	4.50
Rates are per 1,000 gallons					

	2020	2021	
Sewer Base Rate Category	Rate	Rate	Comments
Single-Family Residential	\$ 40.25	\$ 41.66	Standard SF rate
Single-Family Residential: Low-Income Discount	26.15	27.08	Standard SF rate x 0.65
Multi-Family Residential (townhomes)	40.25	41.66	Standard SF rate x 1.00
Multi-Family Residential (apartments & condos)	28.25	29.24	Standard SF rate x 0.70
Non-SF Residential (5/8" Meter)	30.10	31.15	Standard SF rate x 0.75
Non-SF Residential (1.0" Meter)	60.25	62.36	Standard SF rate x 1.50
Non-SF Residential (1.5" Meter)	90.40	93.56	Standard SF rate x 2.25
Non-SF Residential (2.0" Meter)	140.90	145.83	Standard SF rate x 3.50
Non-SF Residential (3.0" Meter)	291.85	302.06	Standard SF rate x 7.25
Non-SF Residential (4.0" Meter)	583.70	604.13	Standard SF rate x 14.50
Non-SF Residential (6.0" Meter)	1,167.40	1,208.26	Standard SF rate x 29.00
Multi-family rate is per housing unit			
	2020	2021	
Sewer Usage Rate Category	Rate	Rate	<u>Comments</u>
Residential	\$ 2.60	\$ 2.65	Standard rate
Non-Residential	6.00	6.12	Standard rate x 2.30
Two residential	0.00	0.12	Standard rate X2.30
Rates are per 1,000 gallons			
	2020	2021	
Stormwater Base Rate Category	Rate	Rate	<u>Comments</u>
Single-Family Residential & Duplex	\$ 14.25	\$ 14.54	Standard SF rate
Multi-Family & Churches	110.30	112.51	Standard SF rate x 7.75
Cemeteries & Golf Course	10.70	10.91	Standard SF rate x 0.75
Parks	33.20	33.86	Standard SF rate x 2.35
Schools & Community Centers	53.65	54.72	Standard SF rate x 3.75
Commercial & Industrial	220.50	224.91	Standard SF rate x 15.50
Rates for single-family are per housing unit; all oth	ers are per	acre	
	2020	2021	
Recycling Rate Category	Rate	Rate	<u>Comments</u>
Single-Family	\$ 9.00	\$ 9.30	Standard rate
Multi-Family	9.00	9.30	Standard rate

Based on Staff analysis and the Ehlers Utility Rate study, the estimated impact to a Single Family Home for all four utility funds is as follows:

Utility Rate Impact: Si	ingle Fan	nily Hom	e (Quarterly)		
_		Old Model		Ehlers	Ehlers
<u>Service</u>	<u>2020</u>	<u>2021</u>	\$ Increase	Option 1	Option 2
Water - base fee	62.10	63.34	1.24	18.88	34.57
Water - usage fee	27.60	41.40	13.80	46.80	38.16
Sanitary Sewer - base fee	40.25	41.66	1.41	41.66	41.66
Sanitary Sewer - usage fee	28.60	29.15	0.55	29.15	29.15
Storm Sewer	14.25	14.54	0.29	14.54	14.54
Recycling	9.00	9.36	0.36	9.36	9.36
Total per Quarter	\$ 181.80	\$ 199.45	\$ 17.65	\$ 160.39	\$ 167.44
Percentage Change			9.71%	-11.78%	-7.90%

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POLICY OBJECTIVE

An annual review of the City's utility rate structure is consistent with governmental best practices to ensure that each utility operation is financially sound.

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FINANCIAL IMPACTS

See above.

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STAFF RECOMMENDATION

Staff recommends the rate adjustments as shown in the report and recommends the Ehlers option 2 for the Water Utility rates. The Public Works, Environment & Transportation Commission reviewed and recommended the Ehlers option 2 for the water rates. The Finance Commission reviewed and recommended the Ehlers option 1 for the water rates.

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REQUESTED COUNCIL ACTION

Motion to approve one of the 2 attached resolutions establishing the 2021 Utility Rates.

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Prepared by:

Michelle Pietrick, Finance Director

Attachments:

- A: Resolution establishing the 2021 Utility Rates, using the Ehlers Water Model Option 1 B: Resolution establishing the 2021 Utility Rates, using the Ehlers Water Model Option 2
- C: Utility rate discussion November 9. 2020 council packet
- D: Ehlers Utility Rate Presentation October 19, 2020 council meeting

Ehlers

Option 1

Comments

EXTRACT OF MINUTES OF MEETING OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE

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Pursuant to due call and notice thereof, a regular meeting of the City Council of the City of Roseville, County of Ramsey, Minnesota was duly held on the 7th day of December, 2020 at 6:00 p.m.

The following members were present: and , and the following were absent:

Member introduced the following resolution and moved its adoption:

Water Base Rate Category

RESOLUTION

RESOLUTION ESTABLISHING THE 2021 UTILITY RATES

2020

Rate

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Roseville, Minnesota, the water, sanitary sewer, storm drainage, and recycling rates are established for 2021 as follows:

2021

Rate

water base Rate Category	<u>ixate</u>	<u>ixate</u>	Comments	<u>Option 1</u>
Single-Family Residential	\$ 62.10	\$ 63.34	Standard SF rate	18.88
Single-Family Residential: Low-Income Discount	40.35	41.17	Standard SF rate x 0.65	18.88
Non-SF Residential (5/8" Meter)	62.10	63.34	Standard SF rate	18.88
Non-SF Residential (1.0" Meter)	77.65	79.20	Standard SF rate x 1.25	47.20
Non-SF Residential (1.5" Meter)	124.00	126.48	Standard SF rate x 2.00	94.40
Non-SF Residential (2.0" Meter)	233.00	237.66	Standard SF rate x 3.75	151.04
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Non-SF Residential (6.0" Meter)	1,758.00	1,900.62	Standard SF rate x 30.00	1,510.40
** Low Income Discount on sewer only				
	2020	2021		Ehlers Utilit
Water Usage Rate Category	Rate	Rate	Comments	Option 1
SF Residential: Up to 15,000 gals./qtr				3.90
SF Residential: 15,001 to 30,000 gals./qtr	\$ 2.30	\$ 3.45	Standard SF rate	4.88
SF Residential: Over 30,000 gals./qtr (winter rate)	2.55	3.80	Standard SF rate +10%	6.10
SF Residential: Over 30,000 gals./qtr (summer rate)	2.75	4.15	Standard SF rate +20%	6.10
Apartments: Up to 8,000 gals/unit/qtr			per unit basis	3.90
Apartments: 8,001-15,000 gals/unit/qtr			per unit basis	4.88
Apartments: Over 15,000 gals./unit/qtr			per unit basis	6.10
Commercial: Up to 60,0000 gals./qtr				3.90
Commercial: 60,001 to 400,0000 gals./qtr				4.88
Commercial: Over 400,000 gals./qtr				6.10
Non-SF Residential (winter rate)	3.00	4.50	Standard SF rate +30%	
Non-SF Residential (summer rate)	3.20	4.84	Standard SF rate +40%	
Irrigation Water Usage				4.97

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	2020	2021	
Sewer Base Rate Category	Rate	Rate	Comments
Single-Family Residential	\$ 40.25	\$ 41.66	Standard SF rate
Single-Family Residential: Low-Income Discount	26.15	27.08	Standard SF rate x 0.65
Multi-Family Residential (townhomes)	40.25	41.66	Standard SF rate x 1.00
Multi-Family Residential (apartments & condos)	28.25	29.24	Standard SF rate x 0.70
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Multi-family rate is per housing unit			
	2020	2021	
Sewer Usage Rate Category	<u>Rate</u>	<u>Rate</u>	<u>Comments</u>
Residential	\$ 2.60	\$ 2.65	Standard rate
Non-Residential	6.00	6.12	Standard rate x 2.30
Rates are per 1,000 gallons			
	2020	2021	
Stormwater Base Rate Category	Rate	Rate	<u>Comments</u>
Single-Family Residential & Duplex	\$ 14.25	\$ 14.54	Standard SF rate
Multi-Family & Churches	110.30	112.51	Standard SF rate x 7.75
Cemeteries & Golf Course	10.70	10.91	Standard SF rate x 0.75
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Rates for single-family are per housing unit; all oth	ers are per	acre	
	2020	2021	~
Recycling Rate Category	Rate	Rate	Comments
Single-Family	\$ 9.00	\$ 9.30	Standard rate
Multi-Family	9.00	9.30	Standard rate
	2020	2021	
	2020	2021	~ .
Meter Security Deposit	Rate	Rate	Comments
5/8" Meter	\$ 190.00	\$ 190.00	Based on approx. meter cost
3/4" Meter	215.00	215.00	Based on approx. meter cost
1.0" Meter	240.00	240.00	Based on approx meter cost
1.5" Meter	240.00 440.00	240.00 440.00	Based on approx meter cost Based on approx meter cost
1.5" Meter 2.0" Meter (Disc)	240.00 440.00 535.00	240.00 440.00 535.00	Based on approx meter cost Based on approx meter cost Based on approx meter cost
1.5" Meter 2.0" Meter (Disc) 2.0" Meter (Compound)	240.00 440.00 535.00 1,340.00	240.00 440.00 535.00 1,340.00	Based on approx. meter cost
1.5" Meter 2.0" Meter (Disc)	240.00 440.00 535.00	240.00 440.00 535.00	Based on approx meter cost Based on approx meter cost Based on approx meter cost

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107 The motion for the adoption of the foregoing resolution was duly seconded by member and upon a 108 vote being taken thereon, the following voted in favor thereof: and , and the following voted 109 against the same: 110 111 WHEREUPON, said resolution was declared duly passed and adopted. 112 113 State of Minnesota) 114) SS 115 County of Ramsey) 116 117 118

I, undersigned, being the duly qualified City Manager of the City of Roseville, County of Ramsey, State of Minnesota, do hereby certify that I have carefully compared the attached and foregoing extract of minutes of a regular meeting of said City Council held on the 7th of December, 2020 with the original thereof on file in my office. WITNESS MY HAND officially as such Manager this 7th day of December, 2020. Patrick Trudgeon City Manager Seal

EXTRACT OF MINUTES OF MEETING OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE

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The following members were present: and , and the following were absent:

144145

Member

introduced the following resolution and moved its adoption:

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RESOLUTION

148149

RESOLUTION ESTABLISHING THE 2021 UTILITY RATES

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** Low Income Discount on sewer only				
	2020	2021		
Water Usage Rate Category	Rate	Rate	Comments	Option 2
SF Residential: Up to 15,000 gals./qtr				3.18
SF Residential: 15,001 to 30,000 gals./qtr	\$ 2.30	\$ 3.45	Standard SF rate	3.98
SF Residential: Over 30,000 gals./qtr (winter rate)	2.55	3.80	Standard SF rate +10%	4.98
SF Residential: Over 30,000 gals./qtr (summer rate)	2.75	4.15	Standard SF rate +20%	4.98
Apartments: Up to 8,000 gals/unit/qtr			per unit basis	3.18
Apartments: 8,001- 15,000 gals/unit/qtr			per unit basis	3.98
Apartments: Over 15,000 gals./unit/qtr			per unit basis	4.98
Commercial: Up to 60,0000 gals./qtr				3.18
Commercial: 60,001 to 400,0000 gals./qtr				3.98
Commercial: Over 400,000 gals./qtr				4.98
Non-SF Residential (winter rate)	3.00	4.50	Standard SF rate +30%	
Non-SF Residential (summer rate)	3.20	4.84	Standard SF rate +40%	
Irrigation Water Usage				4.50
Rates are per 1,000 gallons				

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Non-SF Residential (6.0" Meter)	1,167.40	1,208.26	Standard SF rate x 29.00
	,	,	
Multi-family rate is per housing unit			
	2020	2021	
Sewer Usage Rate Category	Rate	<u>Rate</u>	<u>Comments</u>
Residential	\$ 2.60	\$ 2.65	Standard rate
Non-Residential	6.00	6.12	Standard rate x 2.30
Rates are per 1,000 gallons			
	2020	2021	
Stormwater Base Rate Category	Rate	Rate	<u>Comments</u>
Single-Family Residential & Duplex	\$ 14.25	\$ 14.54	Standard SF rate
Multi-Family & Churches	110.30	112.51	Standard SF rate x 7.75
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1.5" Meter	240.00 440.00	240.00 440.00	Based on approx meter cost Based on approx meter cost
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159 The motion for the adoption of the foregoing resolution was duly seconded by member and upon a 160 vote being taken thereon, the following voted in favor thereof: and , and the following voted 161 against the same: 162 163 WHEREUPON, said resolution was declared duly passed and adopted. 164 165 State of Minnesota) 166) SS 167 County of Ramsey) 168 169 170

I, undersigned, being the duly qualified City Manager of the City of Roseville, County of Ramsey, State 171 of Minnesota, do hereby certify that I have carefully compared the attached and foregoing extract of 172 minutes of a regular meeting of said City Council held on the 7th of December, 2020 with the original 173 thereof on file in my office. 174 175 WITNESS MY HAND officially as such Manager this 7th day of December, 2020. 176 177 178 179 Patrick Trudgeon 180 City Manager 181 182 Seal 183

REQUEST FOR COUNCIL ACTION

Date:November 9, 2020 Item No.: 7.c

Department Approval

City Manager Approval

Michelle Detrick

Item Description: Review the 2021 Utility Rate Adjustments

BACKGROUND

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Operational Review

Water Fund Operations

At December 31, 2019, the Water Fund had to internally borrow \$1,234,554 from other funds to eliminate the cash deficit. This fund has had a steadily declining cash balance for the past four years. Staff identified that the rate setting formula was changed in 2014 which unfortunately has an error when converting the water purchased from St. Paul from cubic feet to the Roseville system which is billed in gallon units. In addition, the capital projects done for the water system have exceed the averages used in the formula. We engaged Ehlers to perform a utility study on this fund which was presented at the October 19th Council meeting.

Ehlers presented two separate options, both introduce new water usage tier rates for Residential, Commercial and Apartment properties. Both options realign who pays for water versus who uses water to provide more equity and the definition of fixed costs versus variable costs adheres to the industry standards. Option 2 provides for an average of capital costs to be included in the fixed costs, which is more in line with our current structure. Option 1 would put the average capital costs on the usage/variable side of the rates.

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The Base rates require a 3.5% increase to cover the fixed costs which are operational and capital only. The usage rates require a modest 1.92% increase to cover the MCES total costs. See Attachment B for the rate analysis.

Recycling Operations

The recycling operation provides for the contracted curbside recycling pickup throughout the City and related administrative costs. The primary operating cost is the amounts paid to a contractor to pick up recycling materials. 2020 had significant increases as a result of higher contractor costs. The market for recycled materials is a global one, and it had declined significantly during the prior year. For 2021, which is the last year of our current contract, the City has budgeted a 3.74% increase in the contract costs. A customer rate increase from \$9 per quarter to \$9.36 (4%) has been proposed to accommodate the higher costs. See Attachment B for the rate analysis.

Recommended Rates for 2021

The following table provides a detailed breakdown of the proposed rates including the rate structure which depicts how the operating cost burden is distributed to various customer types. The table also shows the Water rate options from the Ehlers Utility Rate Study.

	2020	2021		Ehlare Hilit	y Rate Study	
W-t D D-t- C-t			C		, , , , ,	
Water Base Rate Category	<u>Rate</u>	<u>Rate</u>	Comments	Option 1	Option 2	
Single-Family Residential	\$ 62.10	\$ 63.34	Standard SF rate	18.88	34.57	
Single-Family Residential: Low-Income Discount	40.35	41.17	Standard SF rate x 0.65	18.88	34.57	**
Non-SF Residential (5/8" Meter)	62.10	63.34	Standard SF rate	18.88	34.57	
Non-SF Residential (1.0" Meter)	77.65	79.20	Standard SF rate x 1.25	47.20	86.43	
Non-SF Residential (1.5" Meter)	124.00	126.48	Standard SF rate x 2.00	94.40	172.85	
Non-SF Residential (2.0" Meter)	233.00	237.66	Standard SF rate x 3.75	151.04	276.56	
Non-SF Residential (3.0" Meter)	465.80	475.12	Standard SF rate x 7.50	302.08	553.12	
Non-SF Residential (3.0" Compound Meter)				330.40	604.98	
Non-SF Residential (4.0" Meter)	931.65	950.28	Standard SF rate x 15.00	472.00	864.25	
Non-SF Residential (4.0" Compound Meter)				566.40	1,037.10	
Non-SF Residential (6.0" Meter)	1,758.00	1,900.62	Standard SF rate x 30.00	1,510.40	2,765.60	
** Low Income Discount on sewer only						

	2020	2021		Ehlers Utility	v Rate Study
Water Usage Rate Category	Rate	Rate	Comments	Option 1	Option 2
SF Residential: Up to 15,000 gals./qtr	<u>IXAIC</u>	<u> </u>	<u>Comments</u>	3.90	3.18
SF Residential: 15,001 to 30,000 gals./qtr	\$ 2.30	\$ 3.45	Standard SF rate	4.88	3.98
SF Residential: Over 30,000 gals./qtr (winter rate)	2.55	3.80	Standard SF rate +10%	6.10	4.98
SF Residential: Over 30,000 gals./qtr (winter rate)	2.75	4.15	Standard SF rate +20%	6.10	4.98
Apartments: Up to 8,000 gals/unit/qtr	2.13	7.13	per unit basis	3.90	3.18
Apartments: 8,001- 15,000 gals/unit/qtr			per unit basis	4.88	3.98
Apartments: 0,001-15,000 gals/unit/qtr			per unit basis	6.10	4.98
Commercial: Up to 60,0000 gals./qtr			per unit basis	3.90	3.18
Commercial: 60,001 to 400,0000 gals./qtr				4.88	3.98
Commercial: Over 400,000 gals./qtr				6.10	4.98
Non-SF Residential (winter rate)	3.00	4.50	Standard SF rate +30%	0.10	4.70
Non-SF Residential (summer rate)	3.20	4.84	Standard SF rate +40%		
Irrigation Water Usage	3.20	4.04	Stalldard SF Tate +4070	4.97	4.50
inigation water osage				4.97	4.30
Rates are per 1,000 gallons					
	2020	2021			
Sewer Base Rate Category	Rate	Rate	Comments		
Single-Family Residential	\$ 40.25	\$ 41.66	Standard SF rate		
Single-Family Residential: Low-Income Discount	26.15	27.08	Standard SF rate x 0.65		
Multi-Family Residential (townhomes)	40.25	41.66	Standard SF rate x 1.00		
Multi-Family Residential (apartments & condos)	28.25	29.24	Standard SF rate x 0.70		
Non-SF Residential (5/8" Meter)	30.10	31.15	Standard SF rate x 0.75		
Non-SF Residential (1.0" Meter)	60.25	62.36	Standard SF rate x 1.50		
Non-SF Residential (1.5" Meter)	90.40	93.56	Standard SF rate x 2.25		
Non-SF Residential (2.0" Meter)	140.90	145.83	Standard SF rate x 3.50		
Non-SF Residential (3.0" Meter)	291.85	302.06	Standard SF rate x 7.25		
Non-SF Residential (4.0" Meter)	583.70	604.13	Standard SF rate x 14.50		
Non-SF Residential (6.0" Meter)	1,167.40	1,208.26	Standard SF rate x 29.00		
Them of residential (ord freed)	1,107110	1,200.20	Standard ST 1400 H29100		
Multi-family rate is per housing unit					
	2020	2021			
Sewer Usage Rate Category	Rate	Rate	<u>Comments</u>		
Residential	\$ 2.60	\$ 2.65	Standard rate		
Non-Residential	6.00	6.12	Standard rate x 2.30		
Rates are per 1,000 gallons					
	2020	2021	_		
Stormwater Base Rate Category	Rate	Rate	Comments		
Single-Family Residential & Duplex	\$ 14.25	\$ 14.54	Standard SF rate	2021 rates ag	gree with Ehlers
Multi-Family & Churches	110.30	112.51	Standard SF rate x 7.75		
Cemeteries & Golf Course	10.70	10.91	Standard SF rate x 0.75		
Parks	33.20	33.86	Standard SF rate x 2.35		
Schools & Community Centers	53.65	54.72	Standard SF rate x 3.75		
Commercial & Industrial	220.50	224.91	Standard SF rate x 15.50		
Rates for single-family are per housing unit; all oth	ers are per	acre			
	2020	2021			
Recycling Rate Category	Rate	Rate	Comments		
Single-Family	\$ 9.00	\$ 9.30	Standard rate		
Multi-Family	9.00	9.30	Standard rate		
	7.00	7.50			

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Home for all four utility funds is as follows:

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Utility Rate Impact: Si	ngle Fan	nily Hom	e (Quarterly)		
		Old Model		Ehlers	Ehlers
<u>Service</u>	<u>2020</u>	<u>2021</u>	\$ Increase	Option 1	Option 2
Water - base fee	62.10	63.34	1.24	18.88	34.57
Water - usage fee	27.60	41.40	13.80	46.80	38.16
Sanitary Sewer - base fee	40.25	41.66	1.41	41.66	41.66
Sanitary Sewer - usage fee	28.60	29.15	0.55	29.15	29.15
Storm Sewer	14.25	14.54	0.29	14.54	14.54
Recycling	9.00	9.36	0.36	9.36	9.36
Total per Quarter	\$ 181.80	\$ 199.45	\$ 17.65	\$ 160.39	\$ 167.44
Percentage Change			9.71%	-11.78%	-7.90%

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POLICY OBJECTIVE

An annual review of the City's utility rate structure is consistent with governmental best practices to ensure that each utility operation is financially sound.

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FINANCIAL IMPACTS

See above. 82

STAFF RECOMMENDATION

Staff recommends the rate adjustments as shown in the report and recommends the Ehlers option 2 for the Water Utility rates. The Public Works, Environment & Transportation Commission reviewed and recommended the Ehlers option 2 for the water rates. The Finance Commission will review the utility rates on November 10th.

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Staff recommends the City Council adopt one of the two proposed utiltiy rate models for the Water Fund.

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REQUESTED COUNCIL ACTION

The material in this report is provided for infromation only at this point. Final consideration of the utility rates will occur at the December 7 City Council meeting. However, the City Council should 92 provide direction to staff on what water rate option (Ehlers Option 1 or Ehlers Option 2) staff should 93 bring forward for final consideration at that meeting. 94

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Michelle Pietrick, Finance Director Prepared by:

Attachments: A: 2021 Rate Calculation Worksheets for Utility Funds

\$ 1,083,372 \$ 1,083,385

TOTALS

100% TOTAL FIXED AND METER COSTS - WATER FUND

12

Fixed Costs Analysis 2020 Budget

Water Fund Fixed Costs

	Description	Amount	Totals			Fixed Charge Options	Options			
1 2	Personnel Expenses Salaries & Benefits	\$ 698,280	\$ 698,280		Existing Charges	2020 Quarterly Rate	Number of Units/Meters	Annual Revenue	Grand Total	% of Fixed Costs
m	Other Operating Expenses			₽	Fixed Rate					
4	Office Supplies	200		2	5/8 inch & 3/4 inch	62.10	9,608	2,386,627		
2	Telephone	5,000		m	1 Inch	77.65	248	77,029		
9	Postage	8,000		4	1.5 Inch	124.00	198	98,208		
7	Printing	100		2	2.0 Inch	233.00	143	133,276		
œ	Insurance	55,000		9	3.0 Inch	465.80	99	104,339		
6	Contract Maintenance	56,800		7	4.0 Inch	931.65	1	3,727		
10	Memberships & Subscriptions	2,300	127,400	∞	6.0 Inch	1,758.00	4	28,128	\$ 2,831,334	261.3%
					Note: Accounts with multiple meters may only be charged for 1 meter	charged for 1 meter				
11	Operating Transfers Out									
12	Admin Charge to General Fund	385,000	385,000		Option	Option #1: 100% of Fixed Costs in Fixed Charges	d Costs in Fixe	ed Charges		
	ı				SINCITAC BELIEF CAR	Number of	Max Flow	Equivalent	Quarterly	Annual
13	Less: Wholesale Portion per Cost of Service Analysis				NATE STRUCTORE OFFICINS	Meters	(gpm)	Ratio	Charge	Revenues
14	City of Arden Hills	(127,295)	(127,295)	1	Fixed Rate					
				2	5/8 inch & 3/4 inch	9,624	20	1.0	\$ 18.88	\$ 726,804
15	TOTAL FIXED AND METER COSTS - WATER FUND		\$ 1,083,385	æ	1.0 Inch	301	20	2.5	47.20	56,829
				4	1.5 Inch	273	100	2.0	94.40	103,085
16	Capital Improvement Costs			2	2.0 Inch	120	160	8.0	151.04	72,499
17	5-Year Average Costs	000'006	900,000	9	2.0 Inch - Compound	43	160	8.0	151.04	25,979
	ı			7	3.0 Inch	20	320	16.0	302.08	24,166
18	TOTAL FIXED COSTS INCLUDING CAPITAL - WATER FUND	٥	\$ 1,983,385	∞	3.0 Inch - Compound	36	350	17.5	330.40	47,578
		-		6	4.0 Inch		200	25.0	472.00	
				10	4.0 Inch - Compound	1	009	30.0	566.40	2,266
				11	6.0 Inch	4	1,600	80.0	1,510.40	24,166

	Option	Option #2: Fixed Rates Include Capital Costs	Include Capit	al Costs		
	RATE STRUCTURE OPTIONS	Number of Meters	Max Flow (gpm)	Equivalent Ratio	Quarterly Charge	Annual Revenues
-	Fixed Rate					
	5/8 inch & 3/4 inch	9,624	20	1.0	\$ 34.57	\$ 1,330,807
	1.0 Inch	301	20	2.5	86.43	104,062
	1.5 Inch	273	100	5.0	172.85	188,752
	2.0 Inch	120	160	8.0	276.56	132,749
	2.0 Inch - Compound	43	160	8.0	276.56	47,568
	3.0 Inch	20	320	16.0	553.12	44,250
	3.0 Inch - Compound	36	350	17.5	604.98	87,117
	4.0 Inch		200	25.0	864.25	
	4.0 Inch - Compound	1	009	30.0	1,037.10	4,148
	6.0 Inch	4	1,600	80.0	2,765.60	44,250
	TOTALS	10,422				\$ 1,983,702
	TOTAL FIXED COSTS INCLUDING CAPITAL - WATER FUND	WATER FUND				\$ 1,983,385



Storm Sewer Rate Analysis

2021

	1000
lotal Costs	2021
Personnel Services	\$ 463,065
Supplies & Maintenance	88,340
Other Charges	822,800
Less Depreciation	(480,000)
Capital Outlay	1,168,700 ** Switched to 5-Year CIP amortization in 2019 to better approximate actual cash flow needs
	Total \$2,062,905 = Amount to recover from rates

		'	Current	t Rates		Proposed Rates	
	# of	# of Lots /		Base Fee		% Increase	Base Fee
	Customers	Acreage	Base Fee	Revenue		(decrease)	Revenue
Single Family & Duplex	9,741	9,741	14.25	\$ 138,809	14.54	2.04%	\$ 141,634
Multi-Family & Churches	n/a	429	110.30	47,319	112.51	2.00%	2.00% 48,267
Cemeteries & Golf Course (a)	n/a	6	10.70	96	10.91	1.96%	86
Parks (b)	n/a	1	33.20	33	33.86	1.99%	34
Schools & Comm. Centers (c)	n/a	176	53.65	9,442	54.72	1.99%	9,631
Commercial & Industrial	n/a	1,418	220.50	312,669	224.91	2.00%	318,922
		11,774		508,369			\$ 518,586

Total Costs to Recoup

Revenue over (under) Costs

11,439 (loaned %

Total Annual Revenue

2,074,344

Amount Needed for Operations

(894,205)

Amount Available for Capital \$ 1,180,139

\$ 2,074,344

Total Annual Revenue \$2,033,475

Sanitary Sewer Rate Analysis

Total Fixed Costs	<u>2021</u>
Personnel Services	\$ 508,830
Supplies & Maintenance	44,700
Other Charges (net of sewer treatment)	1,052,210
Less Depreciation	(456,000)
Capital Outlay	1,349,000 ** Switched to 5-Year CIP amortization in 2019 to better approximate actual cash flow needs-in 2019 Cmiller had this linked to the Non-MSA CIP sheet
a+o-L	Total 6.2 408 740 = Amount to recover from BASE retac

Amount to recover from BASE rates

	Usage Fee		276,021		ıchr	mei	12,1 3 5	72,882	孙 ,06	129,3	62,2 § 9	3,040	il m	716,6 6 ting	3,106,608
Proposed	% Increase Usage Fee	(decrease)	1.92%	1.92%			2.00%	2.00%	2.00%	2.00%	2.00%	2.00%			
	Fee per	1,000 gals.	2.65	2.65			6.12	6.12	6.12	6.12	6.12	6.12			
rent	Usage Fee	Revenue	2.60 270,813	128,057			11,916	71,453	88,674	126,783	61,049	2,981		761,724	3,046,898
Current	Fee per	1,000 gals.	2.60	2.60			00.9	00.9	00.9	00.9	00.9	00.9			
	Base Fee	Revenue	394,479		193,452		3,613	11,038	10,479	14,000	10,270	604	ı	637,934	2,551,736
Proposed	% Increase	(decrease)	3.50%		3.50%		3.49%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		
					29.24		31.15	62.36	93.56	145.83	302.06	604.13	1,208.26		
ent	Base Fee	Revenue	381,127		186,902		3,492	10,664	10,125	13,526	9,923	584	1	616,343	2,465,372
Current		Base Fee	40.25		28.25		30.10	60.25	90.40	140.90	291.85	583.70	1,167.40		Total Annual Revenue
•	Avg.	Usage (a)	11	232.32			17.12	67.28	131.96	220.11	299.26	496.75	ı		Total Ann
	# of	Customers	9,469	212	6,616		116	177	112	96	34	1	1	16,833	
			Single-Family Residential	Residential - Apts & Condos: Accts. (b)	Residential - Apts & Condos: Units (b)	Non-residential	5/8" Meter or 3/4" Meter	1.0" Meter	1.5" Meter	2.0" Meter	3.0" Meter	4.0" Meter	6.0" Meter		

(a) Usage is in 1,000's of gals. SF Res. usage is based on average WINTER usage (b) Total UB Accounts = 189, total units for base revenue calculation = 5,976

** Multi-Family & Condo are charged a single property base fee plus a separate fee for each housing unit.

Amount Needed for Operations (1,149,740) Amount Available for Capital 1,401,996

12/31/19 c

Total Costs to Recoup 2,982,790

123,818

Revenue over (under) Costs

52,996

Revenue over (under) Costs

Total Annual Revenue 2,551,736

Total Costs to Recoup 2,498,740

Total Variable Costs

Total Wastewater Treatment Cost

2,982,790 ** based on Met Council email dated 8/4/2020

Solid Waste Recycling Rate Analysis

2021

Total Costs	2021					
Personnel Services	\$ 41,785	16				
Supplies & Maintenance						
Other Charges: Miscellaneous	24,760					
Contractor Costs: Curbside	571,313					
Contractor Costs: Parks	5,23.					
Contractor Costs: Park Pathways	7,371					
Contractor Costs: Clean-Up Day	10,000		\$ 598,917	\$ 598,917 = Total Contractor Costs	ractor Costs	
Contractor Costs: Shredding Day	5,000					
	Total \$ 665,463	665,462 = Amount to recover from rates	recover from	rates		
		Current Rates	t Rates		Proposed Rates	S
	# of Customers	ırs	Base Fee		% Increase	Base Fee
	(Units)	Base Fee	Revenue	Base Fee	(decrease)	Revenue
Single Family	9,420	00.6	84,780	9.36	4.00%	88,171
Multi family	6,331	00.6	56,979	9.36	4.00%	59,258
Opt-Ins	20		180	9.36	4.00%	187
Applewood Service		00.09	09	00.09	0.00%	09

665,462	12,744
Total Costs to Recoup	Revenue over (under) Costs

21,875 169,552 678,206

21,875 163,874 655,496

Total Quarterly Revenue Total Annual Revenue

Revenue Sharing from Contractor (quarterly)

Ramsey Co. SCORE Grant (quarterly)



Utility Rate Study October 19, 2020



Overview

What are enterprise funds and fixed costs

Purpose & Approach of the Study

Findings

Water and Storm Drainage

- Goals & Assumptions
- Capital Projects
- Wholesale Water Customer
- Rate Structures
- Projections

Impact Analysis



Utility funds

They are enterprise funds

- 1. Should pay for
 - Capital outlays
 - Operations
 - Replacement reserves
 - Debt
- 2. Should have sufficient cash for operations and debt
- 3. Have a minimum of:
 - 6 months of operating expenses including depreciation
 - Following year's bond/debt payments, if any
 - Funding for capital equipment
 - Flexibility to accommodate unforeseen repairs



Fixed Costs

What are they?

- Staff
- Equipment/vehicles
- Supplies
- Cost to send out the bills
- Meters for resale and meter repair/maintenance (water fund only)

Why important?

 Need to make sure these costs are covered by base charges and not subject to usage of the system



Purpose of the Study

Review the current rate structure for all funds

Water Fund

- Usage tiers promote conservation (Water Only)
- Base charges cover fixed costs
- Build and maintain appropriate fund balances
- Balance cash and bonding to pay for capital projects

2. Storm Drainage Fund

- Build and maintain appropriate fund balance
- Pay cash for future capital projects



Purpose of the Study

Parameters

- 1. Assure funds pay for
 - Capital outlay
 - Operations
 - Annual debt service, if applicable
- 2. Provide sufficient cash reserves for
 - Six months of operating expenses (including depreciation)
 - Next years' annual debt service (if applicable)
- 3. Review existing contract with City of Arden Hills for wholesale water service



Approach to Study – Impact Analysis

Residents/Business Fund Administration/Staff



Findings

- 1. Cash balances need rebuilding
- 2. Base / meter charge is higher than needs to be
 - Should just cover fixed costs to match industry standards
 - Shift non fixed costs to usage rates
- 3. Residential customers pay for more than they use
- 4. Cost of service analysis for Arden Hills requires increase in next contract
- 5. Majority of capital needs can be paid with cash
- 6. Will provide Council two (2) options to select from



Impact Analysis - Residential

Based on Quartile system

- 25% Quartile = bottom 1/4 of usage
- 50% Quartile = midpoint of usage
- **75**% Quartile = top ¼ of usage

Take Away

- 1. Tier 1 of new rate structure (15,000 gallons) is 75% Quartile = 85% of winter usage
- **2. Both Options** show decreases to residential accounts
- 3. Option #1 will see higher decreases
- 4. 2021 includes current annual inflationary rate increases

RESI	DENTIAL ACCOU	INTS		
Low	Median	High ★		
25% Quartile	50% Quartile	75% Quartile		
6,000	10,000	15,000		
5/8"	5/8"	5/8"		
	-	-		

Option 1 \$ Incr/(Decr)	\$	(37.45)	\$ (31.53)	\$ (24.13)
Option 2 \$ Incr/(Decr)	Ś	(26.08)	\$ (23.04)	\$ (19.24)
Due to New Rate Structure	•			

10/19/2020

Quartile

Meter Size

Sample 2019 Usage



Impact Analysis – Apt / Commercial

Based on Quartile system

- 25% Quartile = bottom 1/4 of usage
- **50%** Quartile = midpoint of usage
- **75**% Quartile = top ¼ of usage

Take Away

- Both Options show decreases to most commercial accounts
- 2. High commercial will see increase
- 3. 100% Quartile will see significant increase

			OTHER ACCOUN	TS	
	High Apartment (Per Unit)	Low Commercial	Median Commercial	High Commercial	Very High Commercial
Quartile	75% Quartile	25% Quartile	50% Quartile	75% Quartile	100% Quartile
Sample 2019 Usage	11,000	13,000	45,000	138,000	13,843,000
Meter Size	1.5"	5/8"	1.0"	2.0"	1.0" & 6.0" each
Option 1 \$ Incr/(Decr)	Ş 5.32	\$ (39.31)	\$ (10.03)	\$ 57.35	\$ 35,166.02
Option 2 \$ Incr/(Decr)	\$ (0.69)	\$ (32.98)	\$ (3.20)	69.47	\$ 22,645.92
Due to New Rate Structur	е				



Goals

Rate Structure Design

- 1. Equity / Fairness
 - Evaluate who is using system and when
- 2. Sufficient Revenues
 - Pay for future operating and capital
- 3. Fixed Rate covers fixed costs
- 4. Promote Conservation
- 5. Ease of Administration
- 6. Understood by Rate Payers



Assumptions

- 1. Utilized 12 months of usage data
 - August 2019 July 2020
- 2. Future Projections
 - 3% on Expenses
 - 2% on Other Revenues
- 3. Capital Needs
 - **\$28.2** million over **10** years
 - Costs inflated 2.5% / year

Capital Projects & Equipment – Next 10 Years

Fund	Vehicles	Equipment	Buildings	/m	provements	Total
Water	\$ 294,216	\$ 627,365	\$ 237,795	\$	12,162,438	\$ 13,321,814
Storm	\$ 1,080,011	\$ 1,182,164	\$ -	\$	12,639,025	\$ 14,901,199
TOTAL	\$ 1,374,227	\$ 1,809,529	\$ 237,795	\$	24,801,462	\$ 28,223,013



Capital Projects – Next 10 Years

Proposed Bonding

Year	W	ater Fund	torm ige Fund
2020	\$	2,500,000	\$ -
2021		-	-
2022		-	-
2023		-	-
2024		-	-
2025		-	-
2026		-	-
2027		-	-
2028		-	-
2029		-	-
2030		-	-
TOTALS	\$	2,500,000	\$ -



Wholesale Water Customer

Agreement with City of Arden Hills

- 1. Most recent agreement dated 8/14/2006 through 12/31/2024
- 2. Max daily usage
 - None
- 3. Rate Calculation
 - Average cost charged to Roseville by St. Paul
 - Includes administrative, repair & maintenance, and depreciation expenses
 - Capital costs paid for separately

Definition: A wholesale customer is a purchasing utility who is buying water services from a separate owner utility for the purpose of reselling such water to the purchasing utility's retail or other customers.



Wholesale Water Customer

Allocate operating costs of water system

- 1. Estimate and allocate water demand
 - Reserved capacity and actual capacity used
- 2. Determine applicable wholesale costs
 - Water supply & treatment (not applicable here)
 - Transmission lines
 - Distance and elevation
 - Peaking factors comparing average day usage to max day usage
 - Customer accounting and service costs
 - Administration and overhead



Wholesale Water Customer

Cost Allocation per American Water Works Association

Follows "Cash-Needs" Approach

2020 Water Budget:

- 1. Total operating cost of **\$6.2m**
- 2. Applicable total wholesale cost is **\$5.9m**
- 3. Arden Hills portion is \$1.2m
- 4. Per contract, **2019** billed was **\$972,000**; difference of **(\$257,216)**

Take Away

- Existing contract does not cover costs
- 2. Have good data for negotiating next contract

			Ext	ra Capacity		Custom	er Co	sts	Tot	al Cost of
ltem		Base		Maximum Day		Meters		Bills	Service	
Jnit Cost of Service										
Wholesale Portion of O&M	\$	2.6136	\$	329.2381	\$	5.4436	\$	3.0032		
Retail Services										
Units of Service		1,119,090		4,770		10,454		41,696		
Allocated Costs of Service	\$	2,924,854	\$	1,570,302	\$	56,907	\$	125,221	\$	4,677,284
Wholesale Services										3
Units of Service		302,030		1,337		3		4		
Allocated Costs of Service	\$	789,387	\$	440,217	\$	16	\$	12	\$ 1	1,229,632
ANNUAL WATER USAGE CHARG	SES & PAY	MENTS PE	ER A	GREEMENT	•			Cost of		
				Quarterly Amount		Annual Amount		Service Amount	Di	fference
1st Quarter 2019			\$	190,779				/		
2nd Quarter 2019				232,835						
3rd Quarter 2019				290,412				+		
										(257,216)



Water Fund - Current Rate Structure

Take Away

- 1. Fixed Rate
 - Appears high
- 2. Consumption Charges
 - Residential is a combination of tiers and seasonal rates; can be confusing
 - No separate rate structure for apartments or irrigation accounts
- 3. Tiers
 - **30,000** gallon is too high
- 4. Conservation Rates
 - <u>Residential</u>: Difference between tiers is only 10% for winter and 20% for summer
 - <u>Commercial</u>: Difference for seasonal only 6%

	WA	TER FUI	ND			
Current Quarterly Rate Structure Existing 20						_
—→F	FIXED RATE					
1	5/8 inch & 3/4 inch				\$	62.10
2	1 Inch					77.65
3	1.5 Inch					124.00
4	2.0 Inch					233.00
5	3.0 Inch					465.80
6	4.0 Inch					931.65
7	6.0 Inch					1,758.00
С	ONSUMPTION CHARGES	Current 1	iers (1	000 gal.)		
8	Residential	0	to	30	\$	2.30
9	Winter Rate	<u> </u>	Over	30)(2.55
10	Summer Rate		Over	30		2.75
11	Commercial - Winter Rate	0	to	999,999	\$	3.00
12	Commercial - Summer Rate	0	to	999,999		3.20



Water Fund - Fixed Costs

2020 Budgeted Fixed Costs* = **\$1.08 Million**

*Fixed Costs

- 1. Personnel Expenses
- 2. Operating Expenses
 - 1. Office supplies
 - 2. Telephone
 - 3. Insurance
 - 4. Contract maintenance
 - 5. Printing/mailing
- 3. Administrative Overhead
- 4. Excludes operating costs paid by Arden Hills
- 5. Excludes capital

	Existing Charges	2020 Quarterly	Number of Units/Meters	Annual Revenue	Grand Total	% of Fixed Costs
1	Fixed Rate					
2	5/8 inch & 3/4 inch	62.10	9,608	2,386,627		
3	1 Inch	77.65	248	77,029		
4	1.5 Inch	124.00	198	98,208		
5	2.0 Inch	233.00	143	133,276		
6	3.0 Inch	465.80	56	104,339		
7	4.0 Inch	931.65	1	3,727		
8	6.0 Inch	1,758.00	4	28,128	\$ 2,831,334	261.3%
	Note: Accounts with multiple meters may on		ake Away			
	1. F	Fixed Rate - C	urrently pays f	or 260% of		

 Fixed Rate - Currently pays for 260% of actual costs



Water Fund – Fixed Costs Option #1

2020 Budgeted Fixed Costs* = \$1.08 Million

	Option #2	Option #1: 100% of Fixed Costs in Fixed Charges									
	RATE STRUCTURE OPTIONS	Number of Meters	Max Flow (gpm)	Equivalent Ratio	Quarterly Charge	Annual Revenues					
1	Fixed Rate										
2	5/8 inch & 3/4 inch	9,624	20	1.0	\$ 18.88	\$ 726,804					
3	1.0 Inch	301_	50	2.5	47.20	56,829					
4	1.5 Inch	273	100	5.0	94.40	103,085					
5	2.0 Inch	120	160	8.0	151.04	72,499					
6	2.0 Inch - Compound	43	160	8.0	151.04	25,979					
7	3.0 Inch	20	320	16.0	302.08	24,166					
8	3.0 Inch - Compound	36	350	17.5	330.40	47,578					
9	4.0 Inch	-	500	25.0	472.00						
10	4.0 Inch - Compound	1	600	30.0	566.40	2,266					
11	6.0 Inch	4	1,600	80.0	1,510.40	24,166					
12	TOTALS	10,422				\$ 1,083,372					
13	100% TOTAL FIXED AND METER COST	S - WATER FUND				\$ 1,083,385					

Take Away

- 1. Meter Charge
 - Based on Max Flow (gpm)
- 2. Recommended Rate
 - means everyone pays for fixed cost of system, regardless of usage
- 3. All Meters Charged
 - Even if more than 1 per account

*Note: Fixed costs attributed to <u>retail</u> portion of the system only. Excludes Capital.



Water Fund – Fixed Costs Option #2

2020 Budgeted Fixed Costs* = \$1.98 Million

	Option #2: Fixed Rates Include Capital Costs									
	RATE STRUCTURE OPTIONS	Number of Meters	Max Flow (gpm)	Equivalent Ratio	Quarterly Charge	Annual Revenues				
1	Fixed Rate					<u>.</u>				
2	5/8 inch & 3/4 inch	9,624	20	1.0	\$ 34.57	\$ 1,330,807				
3	1.0 Inch	301	50	2.5	86.43	104,062				
4	1.5 Inch	273	100	5.0	172.85	188,752				
5	2.0 Inch	120	160	8.0	276.56	132,749				
6	2.0 Inch - Compound	43	160	8.0	276.56	47,568				
7	3.0 Inch	20	320	16.0	553.12	44,250				
8	3.0 Inch - Compound	36	350	17.5	604.98	87,117				
9	4.0 Inch	-	500	25.0	864.25					
10	4.0 Inch - Compound	1	600	30.0	1,037.10	4,148				
11	6.0 Inch	4	1,600	80.0	2,765.60	44,250				
12	TOTALS	10,422				\$ 1,983,702				
13	TOTAL FIXED COSTS INCLUDING CAPI	TAL - WATER FUND)			\$ 1,983,385				

Take Away

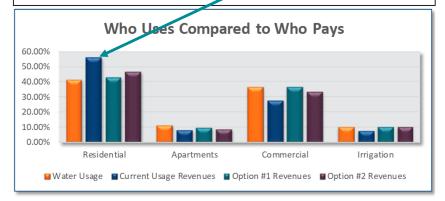
- 1. Capital Projects
 - Same as Option #1
 except it includes 5 year average of
 \$900,000 for capital

 ${}^*\!\textbf{Note:}$ Fixed costs attributed to $\underline{\textit{retail}}$ portion of the system only. Includes Capital.



Water Fund – Who Uses vs Who Pays

WATER FUND										
	Percent of									
		Current								
		Usage	Option #1	Option #2						
Customer Type	Water Usage	Revenues	Revenues	Revenues						
Residential	41.47%	56.26%	43.02%	46.83%						
Apartments	11.50%	8.45%	9 74%	8.97%						
Commercial	36.59%	27.67%	36.81%	33.77%						
Irrigation	10.44%	7.63%	10.43%	10.43%						

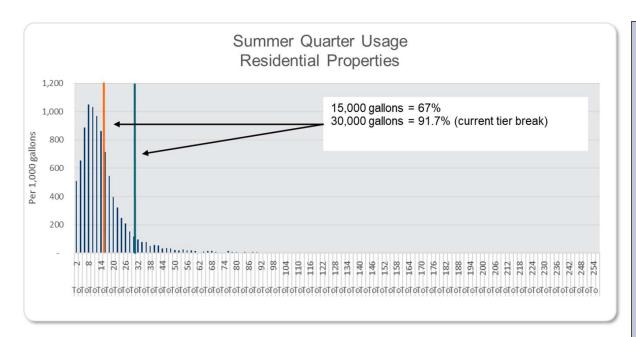


Take Away

- 1. Residential Customers
 - Use **41%** of system, but pay for **56%**
- 2. Other Customers
 - Use 59% of system but pay for 44%
- 3. Both Options
 - Provide solutions to correct disparity
 - Option 1 (teal) closer to usage for all categories
 - Option 2 (purple) residential pays for more than they use



Residential Water Usage

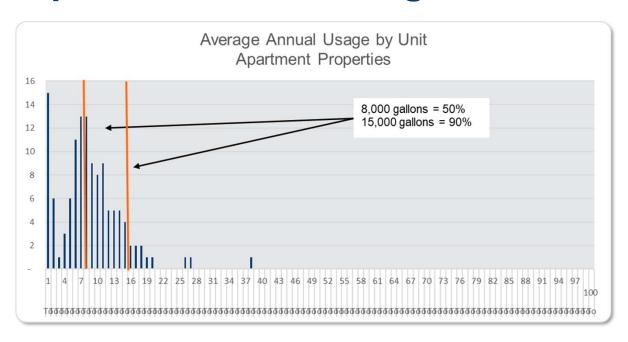


Take Away

- 1. Eliminate Seasonal
- 2. 3-Tiered Rate Structure
 - 1st Tier **67%** of summer usage
 - 2nd Tier **92%** of summer usage
 - 3rd Tier Over **92%**
- 3. Promotes conservation while allowing for essential usage in 1st tier
 - 1st Tier 85% of winter usage



Apartment Water Usage



Take Away:

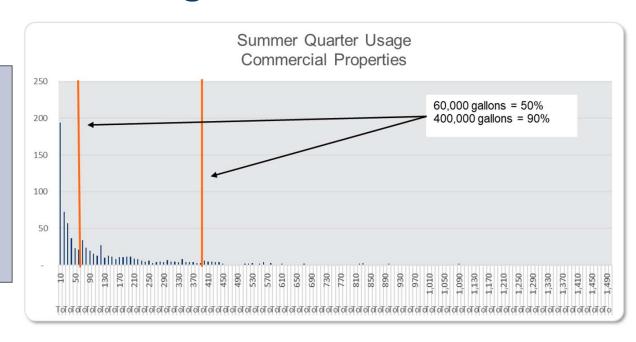
- 1. Separate Rate Structure
 - 1st Tier **50%** of usage
 - 2nd Tier **90%** of usage
 - 3rd Tier Over **90%**
- 2. Tiers on a per-unit basis
 - Example: 4-unit bldg.
 would have 1st tier = 8,000
 x 4 = 32,000 gallons



Commercial Water Usage

Take Away:

- 1. Eliminate Seasonal
- 2. 3-Tiered Rate Structure
 - 1st Tier 50% of usage
 - 2nd Tier **90%** of usage
 - 3rd Tier Over **90%**
- 3. Promote conservation
 - Allows small business to stay in 1st tier

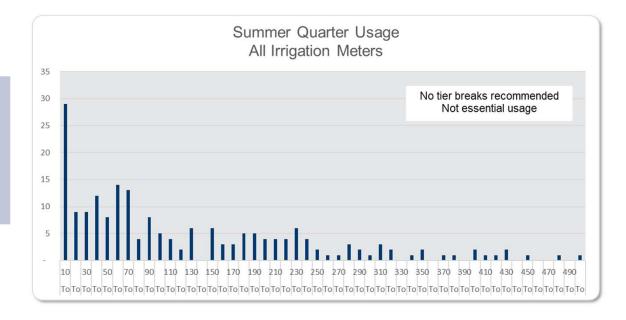




Irrigation Water Usage

Take Away

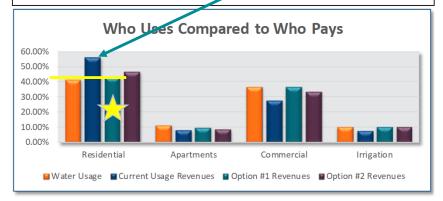
- 1. No Tiers recommended
 - Usage not considered essential
- 2. Promotes conservation
 - By billing at higher rate





Water Fund – Who Uses vs Who Pays

WATER FUND										
		Percent of								
		Current								
		Usage	Option #1	Option #2						
Customer Type	Water Usage	Revenues	Revenues	Revenues						
Residential	41.47%	56.26%	43.02%	46.83%						
Apartments	11.50%	8.45%	9 74%	8.97%						
Commercial	36.59%	27.67%	36.81%	33.77%						
Irrigation	10.44%	7.63%	10.43%	10.43%						
1										



Take Away

- 1. Residential Customers
 - Use **41%** of system, but pay for **56%**
- 2. Other Customers
 - Use **59%** of system but pay for **44%**
- 3. Both Options
 - Provide solutions to correct disparity
 - Option 1 (teal) closer to usage for all categories
 - Option 2 (purple) residential pays for more than they use



Current vs. Proposed Water Rates Option #1

	Current <u>Quarterly</u> Rate Structure					Existing 2020 Rate		
	FIXED RATE							
1	5/8 inch & 3/4 inch				\$	62.10		
2	1 Inch					77.65		
3	1.5 Inch					124.00		
4	2.0 Inch					233.00		
5	3.0 Inch					465.80		
6	4.0 Inch					931.65		
7	6.0 Inch					1,758.00		
	CONSUMPTION CHARGES	Current T	iers (1	,000 gal.)				
8	Residential	0	to	30	\$	2.30		
9	Winter Rate	-	Over	30		2.55		
10	Summer Rate		Over	30		2.75		
11	Commercial - Winter Rate	0	to	999,999	\$	3.00		
12	Commercial - Summer Rate	0	to	999,999		3.20		

Take Away

- 1. 3 Tiers have been tailored to actual usage patterns
- 2. **New structures** for apartments and irrigation

		Costs						
F	ixed Rate				Propo	se d	Rates	
1	5/8 inch & 3/4 inch				\$		18.88)
2	1.0 Inch						47.20	
3	1.5 Inch						94.40	
4	2.0 Inch						151.04	
5	2.0 Inch - Compound						151.04	
6	3.0 Inch						302.08	
7	3.0 Inch - Compound						330.40	
8	4.0 Inch						472.00	
9	4.0 Inch - Compound						566.40	
10	6.0 Inch					1,	510.40	
C	Consumption Charge	Proposed	Tiers (1,000 gal.)				
11	RESIDENTIAL	-	to	15		\$	3.90	
12		15	to	30	25%		4.88	
13			Over	30	25%		6.10	
14	APARTMENTS	-	to	8		\$	3.90	
15	(Per Unit Basis)	8	to	15	25%		4.88	
16			Over	15	25%		6.10	
17	COMMERCIAL		to	60		\$	3.90	
18		60	to	400	25%		4.88	
19			Over	400	25%		6.10	
	IRRIGATION							

OPTION #1 (Recommended): Fixed Rates Cover 100% of Fixed



Proposed Water Rates: Comparing Options

Proposed Rates

OPTION #1 (Recommended): Fixed Rates Cover 100% of Fixed Costs

Fixed Rate

OPTION #2: Fixed Rates Include Capital Costs

	ixed itale				· iopo		114100	
1	5/8 inch & 3/4 inch				\$		18.88	
2	1.0 Inch						41.ZU	
3	1.5 Inch						94.40	
4	2.0 Inch					•	151.04	•
5	2.0 Inch - Compound						151.04	*
6	3.0 Inch					;	302.08	•
7	3.0 Inch - Compound					;	330.40	
8	4.0 Inch					4	172.00	
9	4.0 Inch - Compound						566.40	
10	6.0 Inch					1,	510.40	
C	onsumption Charge	Proposed	Tiers (1,000 gal.)				
11	RESIDENTIAL		to	15		\$	3.90	
12		15	to	30	25 %		4.88)
13			Over	30	25%		6.10	
14	APARTMENTS	-	to	8		\$	3.90	
15	(Per Unit Basis)	8	to	15	25%		4.88	**
16			Over	15	25%		6.10	
17	COMMERCIAL	-	to	60		\$	3.90	
18		60	to	400	25%		4.88	
19		4	Over	400	25%		6.10	
20	IRRIGATION	-	to	999,999		\$	4.97	

F	ixed Rate	Proposed Rates
1	5/8 inch & 3/4 inch	\$ 34.57
2	1.0 Inch	00.45
3	1.5 Inch	172.85
4	2.0 Inch	276.56
5	2.0 Inch - Compound	276.56
6	3.0 Inch	553.12
7	3.0 Inch - Compound	604.98
8	4.0 Inch	864.25
9	4.0 Inch - Compound	1,037.10
10	6.0 Inch	2,765.60

Consumption Charge		
RESIDENTIAL	\$	3.18
2	25%	3.98
3	25%	4.98
APARTMENTS	\$	3.18
(Per Unit Basis)	25%	3.98
3	25%	4.98
COMMERCIAL	\$	3.18
3	25%	3.98
)	25%	4.98
RRIGATION	\$	4.50

Take Away

- 1. Both options have same proposed tier breaks
- 2. Both options generate same annual revenues
- 3. Option 2 has higher Fixed Rates and **lower Consumption** Charges
- 4. Residential pays more for water than it uses in Option 2 than in Option 1

10/19/2020 29

11 12

13

14

15 16

17

18

19

20



Storm Drainage Fund

Quarterly billing

	STORM DRAINAGE FUND						
	Current Quarterly Rate Structure		ting 2020 Rate	•	osed 2021 Rate	Total R.E.U.'s	jected 2021 Revenue
1	All Users - Per R.E.U.	\$	14.25	\$	14.54	9,741	\$ 566,537
2	Commercial / Industrial		220.50		224.91	1,418	1,275,456
3	Multi-Family / Churches		110.30		112.51	429	193,090
4	Schools / Community Centers		53.65		54.72	176	38,424
5	Parks		33.20		33.86	1	135
6	Cemetaries / Golf Courses		10.70		10.91	9	407
7	TOTAL PROJECTED ANNUAL REVENUES						\$ 2,074,049

Take Away

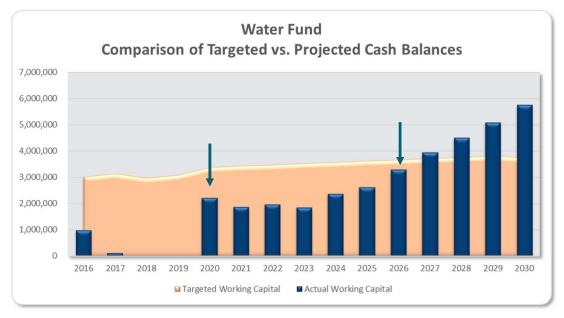
- 1. No recommended changes to existing rate structure
- 2. Rate increases recommended build reserves and keep pace with inflation



Water Fund - Projections

Take Away

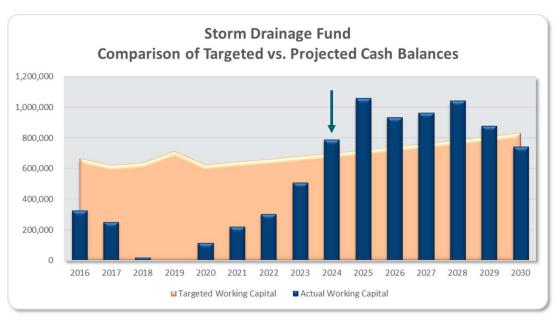
- Cash balance should be close to or exceed target by 2026/2027
- One-time bond issue in 2020 to pay for capital over next three years.



Target working capital = 6 months of operating expenses, including depreciation + next year's debt service



Storm Drainage Fund - Projections



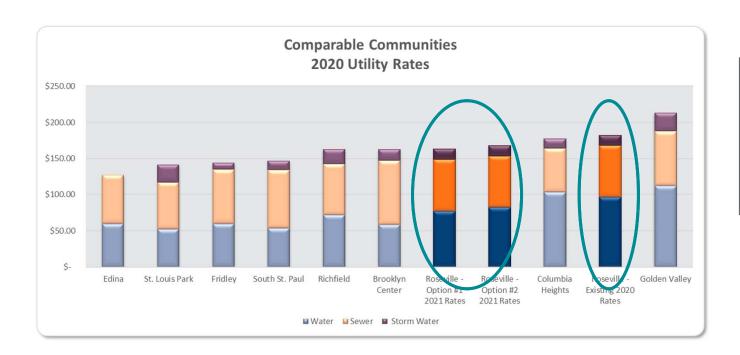
Take Away

- Cash balance should exceed target by 2024
- 2. No bonding recommended

Target working capital = 6 months of operating expenses, including depreciation + next year's debt service (if applicable)



Comparable Communities



Take Away

Roseville proposed rates comparable to surrounding communities



Impact Analysis - Residential

Based on Quartile system

- 25% Quartile = bottom 1/4 of usage
- 50% Quartile = midpoint of usage
- **75%** Quartile = top 1/4 of usage

Take Away

- Both Options show decreases to most residential accounts
- **2. Option #1** will see more significant decreases
- 3. 2021 includes current annual inflationary rate increases

Sample 2019 Usage 6,000 5/8" 5/8" 5/8" 5/8"								
Quartile Sample 2019 Usage Meter Size 25% Quartile 6,000 5/8" 50% Quartile 50% Quartile 50% Quartile 5/8" 75% Quartile 5/8" Total Water Total Storm Water Total Water & Storm \$ 79.73 \$ 89.41 \$ 101. \$ 14.54 \$ 14.5		RESIDENTIAL ACCOUNTS						
Sample 2019 Usage 6,000 5/8" 5/8" 5/8" 5/8"		Low	Median	High				
Total Water Total Water & Storm Storm Water Total Water Storm Water Total Water & Storm Storm Water Storm Storm Water Storm Storm Water Storm	Quartile	25% Quartile	50% Quartile	75% Quartile				
Count Coun				15,000				
Total Water Total Storm Water Total Storm Water Total Water & Storm 2021 Option #1 (Recommended): Fixed Rat	Meter Size	5/8"	5/8"	5/8"				
Total Storm Water Total Water & Storm 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 16.54 17.55 2021 Option #1 (Recommended): Fixed Rate Cover 100% of Fixed Costs Total Water \$ 42.28 \$ 57.88 \$ 77. Total Storm Water 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 14.54 15.56.82 \$ 77.42 \$ 91. \$ Increase/(Decrease) \$ 33.33) \$ (26.93) \$ (18.54) 2021 Option #2: Fixed Rate Includes Capital Costs		2021 Rate	s with <u>Existing</u>	Structure_				
Total Water & Storm	Total Water	\$ 79.73	\$ 89.41	\$ 101.51				
2021 Option #1 (Recommended): Fixed Rate	Total Storm Water	14.54	14.54	14.54				
Cover 100% of Fixed Costs Total Water \$ 42.28 \$ 57.88 \$ 77. Total Storm Water 14.54 <td< th=""><th>Total Water & Storm</th><th>94.27</th><th>\$ 103.95</th><th>\$ 116.05</th></td<>	Total Water & Storm	94.27	\$ 103.95	\$ 116.05				
Cover 100% of Fixed Costs Total Water \$ 42.28 \$ 57.88 \$ 77. Total Storm Water 14.54 14.54 14.54 Total Water & Storm \$ 56.82 \$ 72.42 \$ 91. \$ Increase/(Decrease) \$ (33.33) \$ (26.93) \$ (18. 2021 Option #2: Fixed Rate Includes Capital Costs	ı	2024 0 11 11	/2	1) 51 12 1				
Total Storm Water 14.54 14.54 14.54 Total Water & Storm \$ 56.82 \$ 72.42 \$ 91. \$ Increase/(Decrease) \$ (33.33) \$ (26.93) \$ (18. 2021 Option #2: Fixed Rate Includes Capital Costs								
Total Water & Storm \$ 56.82 \$ 72.42 \$ 91. \$ Increase/(Decrease) \$ (33.33) \$ (26.93) \$ (18. 2021 Option #2: Fixed Rate Includes Capital Costs	Total Water	\$ 42.28	\$ 57.88	\$ 77.38				
\$ Increase/(Decrease) \$ (33.33) \$ (26.93) \$ (18. 2021 Option #2: Fixed Rate Includes Capita Costs	Total Storm Water	14.54	14.54	14.54				
2021 Option #2: Fixed Rate Includes Capita Costs	Total Water & Storm	\$ 56.82	\$ 72.42	\$ 91.92				
Costs	\$ Increase/(Decrease)	\$ (33.33)	\$ (26.93)	\$ (18.93)				
Costs	2021 Ontion #2: Fixed Rate Includes Capital							
Total Water \$ 53.65 \$ 66.37 \$ 82.								
	Total Water	\$ 53.65	\$ 66.37	\$ 82.27				
Total Storm Water \$ 14.54 \$ 14.54 \$ 14.	Total Storm Water	\$ 14.54	\$ 14.54	\$ 14.54				
Total Water & Storm \$ 68.19 \$ 80.91 \$ 96.	Total Water & Storm	\$ 68.19	\$ 80.91	\$ 96.81				
\$\text{'ncrease/(Decrease)} \\$ (21.96) \\$ (18.44) \\$ (14.	> 'ncrease/(Decrease)	\$ (21.96)	\$ (18.44)	\$ (14.04)				
Option 1 \$ Incr/(Decr) \$ (37.45) \$ (31.53) \$ (24.	Option 1 \$ Incr/(Decr)	\$ (37.45)	\$ (31.53)	\$ (24.13)				
Option 2 \$ Incr/(Dec.) \$ (26.08) \$ (23.04) \$ (19.	Option 2 \$ Incr/(Deck)	\$ (26.08)	\$ (23.04)	\$ (19.24)				
Due to New Rate Structure	Due to New Rate Struc	ture						



Impact Analysis - Other

Based on Quartile system

- 50% Quartile = midpoint of usage
- **75%** Quartile = top ½ of usage
- 100% Quartile = highest user

Take Away

- Both Options show decreases to most commercial accounts and apartments
- 2. High industrial and irrigation accounts can expect increases
- 3. High Industrial and irrigation will see increase
- 4. 100% Quartile (very high commercial) will see significant increase

	OTHER ACCOUNTS								
,	High Low Apartment (Per Commercial Unit)		Median Commercial	High Commercial	Very High Commercial				
Quartile	75% Quartile	25% Quartile	50% Quartile	75% Quartile	100% Quartile				
Sample 2019 Usage	11,000	13,000	45,000	138,000	13,843,000				
Meter Size	1.5"	5/8"	1.0"	2.0"	1.0" & 6.0" each				
	2021 Rates with Existing Structure								
Total Water	\$ 43.47	\$ 108.89	\$ 232.73	\$ 708.33	\$ 50,204.28				
Total Storm Water	17.44	197.92	393.43	1,362.95	5,180.60				
Total Water & Storm	\$ 60.91	\$ 306.81	\$ 626.16	\$ 2,071.28	\$ 55,384.88				
				ate Cover 100% o					
Total Water	\$ 48.79	\$ 69.58	\$ 222.70	\$ 765.68	\$ 85,370.30				
Total Storm Water	17.44	197.92	393.43	1,362.95	5,180.60				
Total Water & Storm	\$ 66.23	\$ 267.50	\$ 616.13	\$ 2,128.63	\$ 90,550.90				
\$ Increase/(Decrease)	\$ 7.73	\$ (30.24)	\$ 8.76	\$ 117.80	\$ 37,658.28				
	2021 Option #2: Fixed Rate Includes Capital Costs								
Total water	\$ 42.78	\$ 75.91	\$ 229.53	\$ 777.80	\$ 72,850.20				
Total Storm Water	\$ 17.44	\$ 197.92	\$ 393.43	\$ 1,362.95	\$ 5,180.60				
	\$ 60.22	\$ 273.83	\$ 622.96	\$ 2,140.75	\$ 78,030.80				
Total Water & Storm	φ 00.22	Ψ							



Conclusion

- 1. New structure:
 - Promotes conservation
 - Balances between who uses and who pays for the system
 - Balances between retail and wholesale water users
 - Balances between fixed and variable costs of the system
- 2. Rate increases necessary
 - Cover inflation
 - Build reserves
 - Pay for future debt service, as applicable
- 3. Still competitive
- 4. Funds will be healthy soon
 - City has long term plan to build fund balances and pay for future capital