Memo



To: Mayor and City Council John R. Qunn

John Dunn From:

Date: April 15, 2022

Subject: Sewer Rate Workshop

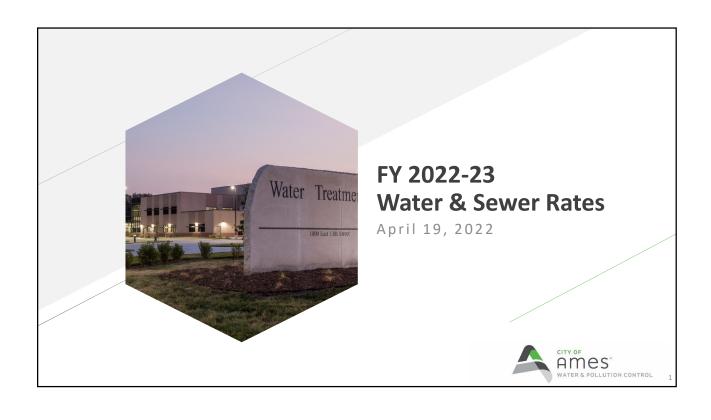
Mayor and Council:

At your workshop next Tuesday evening, I will share with you the rationale supporting a recommended five percent (5%) sewer rate adjustment that would be effective for bills due on or after July 1, 2022.

The presentation will include a review of recent trends in water and sewer rates in Ames, across Iowa, and throughout the US. I will share the projected balances in the Sewer Fund over the next ten years based on the anticipated operating and capital expenses, and a likely pattern of rate increases that would be needed to fully fund the anticipated expenses. Finally, I will make the staff recommendation to move forward with a five percent increase in sewer rates on July 1. Note that no adjustment to water rates are proposed for the coming year.

As a preview to the discussion, I have attached a set of slides that graphically present the current and projected rates. I will present a subset of these slides at the April 19 workshop.

I look forward to discussing with you the plan to meet the financial needs of the water and sewer utilities as we strive to fulfill the expectations of our community into the future.





National and State Trends

Data sources include:

- <u>2020 Cost of Clean Water Index</u>
 National Association of Clean Water Agencies
- 2021 Water and Wastewater Rate Survey
 American Water Works Association
- 2021 Iowa Water and Wastewater Rate Survey
 City of Ames Water and Pollution Control



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National Trends

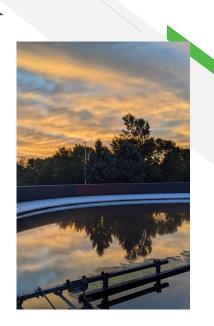
2020 Cost of Clean Water Index, NACWA

Average annual wastewater bill has doubled nationally in last 16 years (\$527 in 2020 versus \$262 in 2004)

Average national wastewater sewer charges increased by 2.9% from 2019 to 2020

2.4x the rate of inflation

(2020 was the 19th consecutive year that sewer rates nationally have outpaced inflation)



National Trends

2021 Water & Wastewater Rate Survey, American Water Works Association

- Water utilities continue to shift away from declining block rate structures (12%) and towards inclining block structures (47%)
- Wastewater utilities are predominately uniform block structures
- Monthly billing intervals are most common (68.3%), followed by bimonthly (14.9%) and quarterly (12.6%)
- Charges were highest in the Northeast. Water charges were lowest in the South, and wastewater charges were lowest in the West.



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National Trends

2016-2021

Water

National Average Annual Increase: 3.7%

<u>Sewer</u>

National Average Annual Increase: 4.5%

Average Annual Increase in CPI: 2.6%

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Sources:

2016 Water and Wastewater Rate Survey, AWWA/Raftelis Financial Consultants 2021 Water and Wastewater Rate Survey, AWWA/Raftelis Financial Consultants

Nationwide average for residential service, 1,000 cf/mo., 5/8" meter,

Iowa Trends

Percent of Iowa Utilities serving >10,000 with a rate increase in past two years:

Drinking Water: 77% (30 of 39)

More than 5%: 46% (18 of 39)More than 10%: 26% (10 of 39)

• Wastewater: 75% (32 of 43)

More than 5%: 58% (25 of 43)More than 10%: 28% (12 of 43)

2019 versus 2021 Iowa Water & Sewer Rate Survey, City of Ames, Iowa



Iowa vs. National Trends

2016-2021

Water

National Average Annual Increase: 3.7% Iowa Average Annual Increase: 4.5%

<u>Sewer</u>

National Average Annual Increase: 4.5% Iowa Average Annual Increase: 6.3%

Average Annual Increase in CPI: 2.6%

Water Plant
Groundbreaking
Ceremony
October 16, 2014

Iowa Sources: <u>2016 Water and Sewer Rate Survey</u>, City of Ames, IA <u>2021 Water and Sewer Rate Survey</u>, City of Ames, IA

Iowa average for residential service, 600 cf/mo., 5/8" meter,

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Recent Rate Adjustments in Ames

	Water	Sewer
FY 17/18		
FY 18/19	3.5%	3%
FY 19/20	7%	
FY 20/21	2%	5%
FY 21/22	6%	
Annual Average	3.7%	1.6%



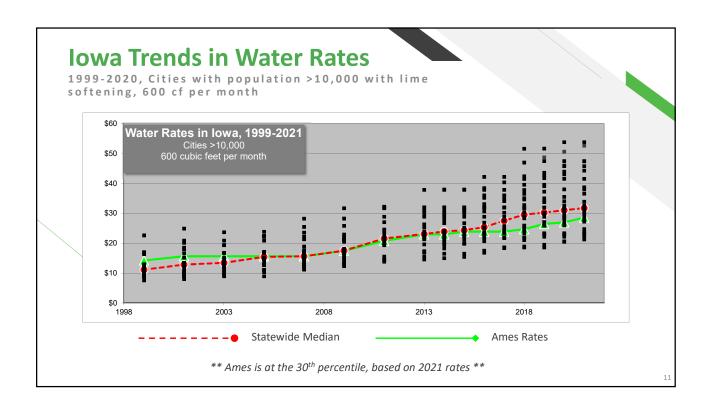
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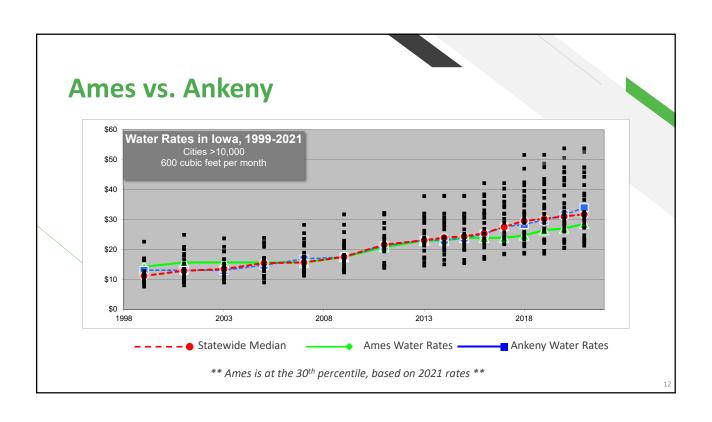
Ames vs. Iowa & National Trends

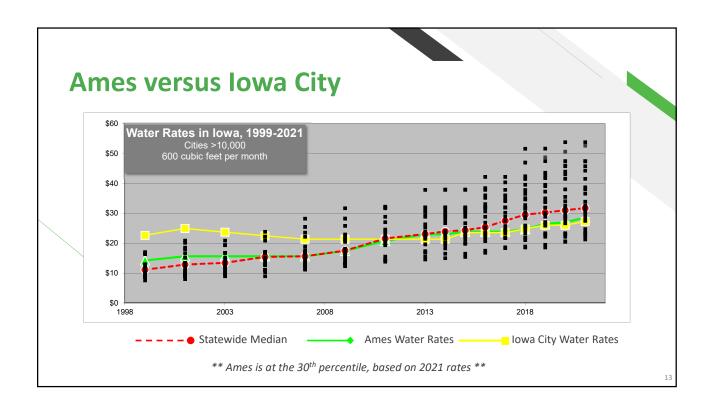
2016-2021

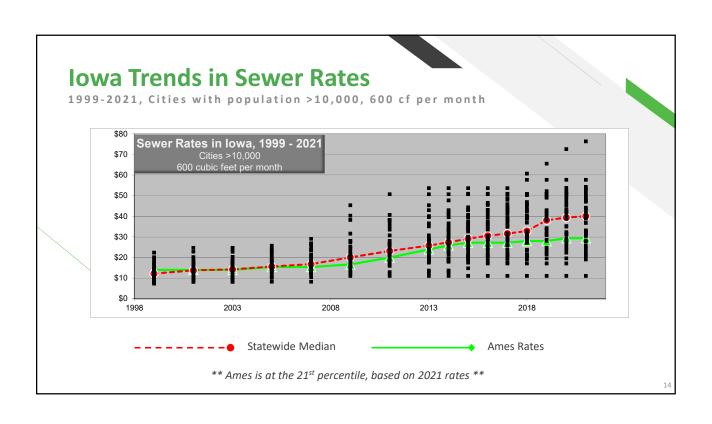
<u>Water</u>	
National Average Annual Increase:	3.7%
Iowa Average Annual Increase:	4.5%
Ames Average Annual Increase:	3.7%
<u>Sewer</u>	
National Average Annual Increase:	4.5%
Iowa Average Annual Increase:	6.3%
Ames Average Annual Increase:	1.6%
Average Annual Increase in CPI:	2.6%

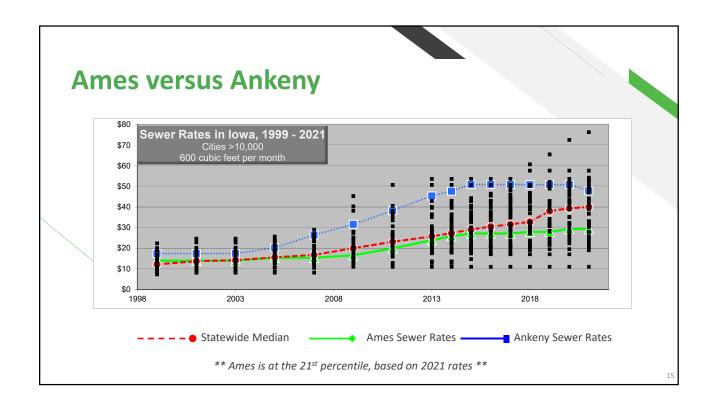


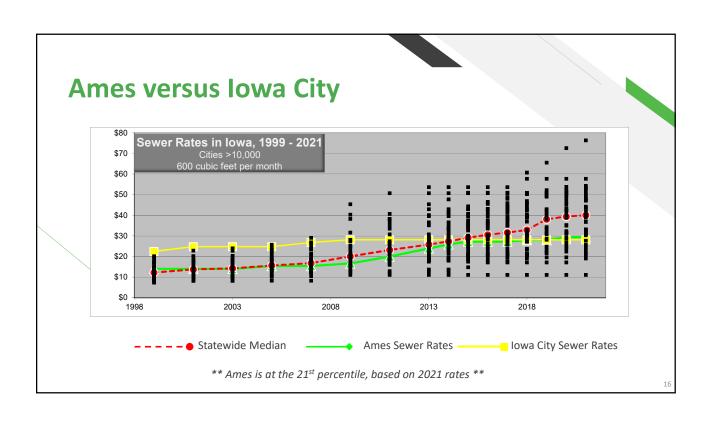












Current Water Rates (\$/cf)

Existing

Winter

All customers; all consumption \$0.0243

Summer

Residential

Block 1 (First 1,000 cf) \$0.0243 Block 2 (Next 1,500 cf) \$0.0428 Block 3 (Over 2,500 cf) \$0.0644

Irrigation & Yard Water

Block 1 (First 2,000 cf) \$0.0350 Block 2 (Next 3,000 cf) \$0.0644 Block 3 (Over 5,000 cf) \$0.1072

Non-Residential

All consumption \$0.0318

Non-Peaking Industrial

All consumption \$0.0243



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Current Sewer Rates

Existing

Minimum Charge \$11.58

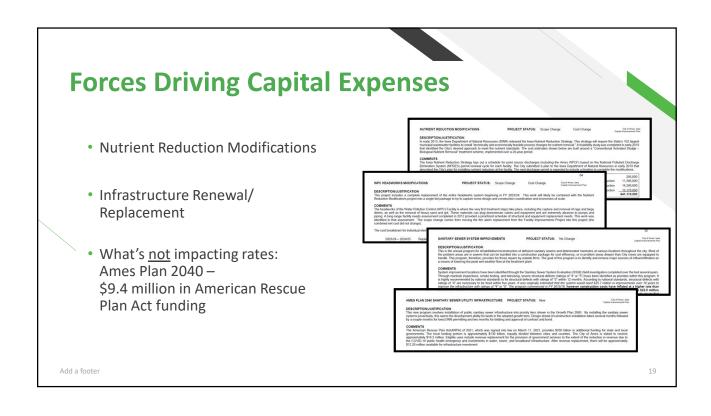
All customers, per month

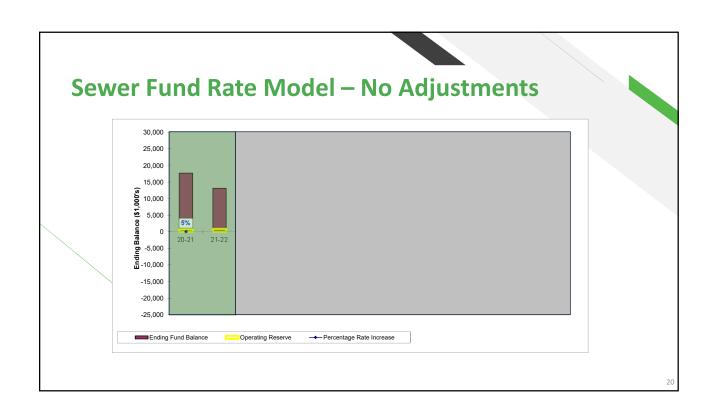
Prorated Minimum \$4.45

Consumption, per 100

cubic feet \$2.96
All customers, all consumption







Guiding Philosophy on Rates

- Rate increases should be done with smaller percentage increases on a more frequent basis, as opposed to larger increases on a less frequent basis.
- Slowly grow the operating reserve in each Fund over time until it reaches 25% of the Fund's annual operating expenses

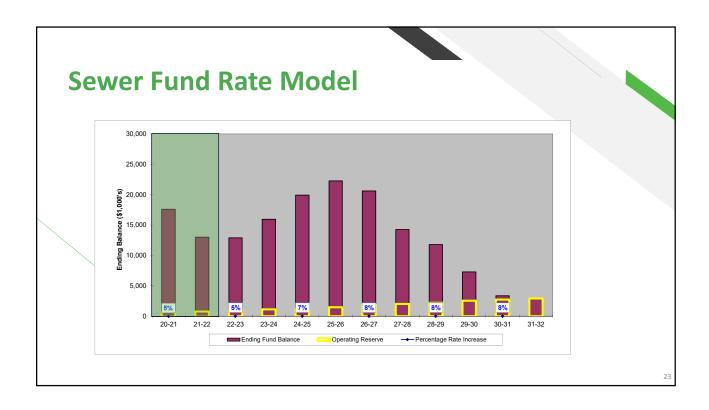


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Water and Sewer Rate Projections

	Last Year	Current Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32
Water Fund	2%	6%		8%		8%		9%		8%		8%
Sewer Fund	5%		5%		7%		8%		8%		8%	





Iowa Trends

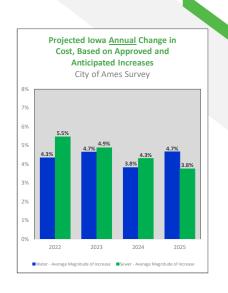
Water

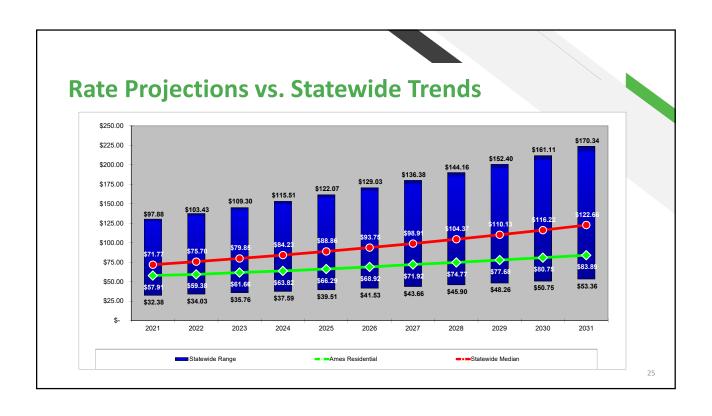
 Over the next four years between 43% and 50% of utilities anticipate a rate increase in any given year

Sewer

 Over the next four years between 26% and 40% of utilities anticipate a rate increase in any given year









Associated Rates and Fees

- High strength surcharge rates; Fats, Oils, and Grease (FOG) rates; and laboratory analysis fees would also increase by 5%
- Meter setting fees would be adjusted based on actual cost recovery
- These would happen as a part of the City-wide fee schedule adjustment later in the spring

Sample Customer Bill

Median Use Residential

Includes both Sewer and Storm Water adjustments

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
600 kWh and 600 cf Electric ECA	\$81.10 -\$4.50	\$4.95	\$28.57	\$29.34	\$143.96 -\$4.50
Totals	\$76.60	\$4.95	\$28.57	\$29.34	\$139.46
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$1.47	\$1.72
Totals	\$76.60	\$5.20	\$28.57	\$30.81	\$141.18
% Impact on Total Bill					1.23%

Recommended Action & Timeline

- Direct staff to prepare an ordinance to:
 - Adjust Sewer Rates by 5%
 - New rates effective for bills mailed on or after July 1, 2022
- Timeline
 - First reading on April 26
 - Second reading on May 10
 - Third reading and adoption on May 24





Sample Customer Bill Minimal Use Residential

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
Electric / vvaler USe	Sullillel	vvalei	Summer	Sewei	IOlai
100 kWh and 100 cf	\$20.45	\$4.95	\$15.72	\$14.54	\$55.66
Electric ECA	-\$0.75				-\$0.75
Totals	\$19.70	\$4.95	\$15.72	\$14.54	\$54.91
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$0.73	\$0.98
Totals	\$19.70	\$5.20	\$15.72	\$15.27	\$55.89
% Impact on Total Bill					1.78%

Sample Customer Bill

Median Use Residential

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
		770.001		001101	
600 kWh and 600 cf	\$81.10	\$4.95	\$28.57	\$29.34	\$143.96
Electric ECA	-\$4.50				-\$4.50
Totals	\$76.60	\$4.95	\$28.57	\$29.34	\$139.46
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$1.47	\$1.72
Totals	\$76.60	\$5.20	\$28.57	\$30.81	\$141.18
% Impact on Total Bill					1.23%

Sample Customer Bill

Large Residential

	Electric	Storm	Water		
Electric / Water Use	Summer	Water	Summer	Sewer	Total
1,000 kWh and 1,000 cf	\$129.62	\$4.95	\$38.85	\$41.18	\$214.60
Electric ECA	-\$7.50				-\$7.50
Totals	\$122.12	\$4.95	\$38.85	\$41.18	\$207.10
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$2.06	\$2.31
Totals	\$122.12	\$5.20	\$38.85	\$43.24	\$209.41
% Impact on Total Bill					1.12%

Sample Customer Bill Small Commercial (GP)

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
					10101
2,000 kWh and 600 cf	\$254.40	\$4.95	\$33.37	\$29.34	\$322.06
Electric ECA	-\$15.00				-\$15.00
Totals	\$239.40	\$4.95	\$33.37	\$29.34	\$307.06
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$1.47	\$1.72
Totals	\$239.40	\$5.20	\$33.37	\$30.81	\$308.78
					0 =00/
% Impact on Total Bill					0.56%

Sample Customer Bill

Small Commercial (GP)

	Electric	Storm	Water		- , .
Electric / Water Use	Summer	Water	Summer	Sewer	Total
5,000 kWh and 1,000 cf	\$612.60	\$4.95	\$46.85	\$41.18	\$705.58
Electric ECA	-\$37.50				-\$37.50
Totals	\$575.10	\$4.95	\$46.85	\$41.18	\$668.08
Increase Due to Rate Change	\$0.00	\$0.25	\$0.00	\$2.06	\$2.31
Totals	\$575.10	\$5.20	\$46.85	\$43.24	\$670.39
% Impact on Total Bill					0.35%

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Sample Customer Bill

Small Commercial (GP)

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
10,000 kWh and 3,000 cf Electric ECA	\$1,209.60 -\$75.00	\$9.90	\$127.39	\$100.38	\$1,447.27 -\$75.00
Totals	\$1,134.60	\$9.90	\$127.39	\$100.38	\$1,372.27
Increase Due to Rate Change	\$0.00	\$0.50		\$5.02	\$5.52
Totals	\$1,134.60	\$10.40	\$127.39	\$105.40	\$1,377.79
% Impact on Total Bill					0.40%

Sample Customer Bill

Commercial (LP)

	Electric	Storm	Water		
Electric / Water Use	Summer	Water	Summer	Sewer	Total
20,000 kWh and 5,000 cf	\$2,181.81	\$9.90	\$194.79	\$159.58	\$2,546.08
Electric ECA	-\$150.00				-\$150.00
Totals	\$2,031.81	\$9.90	\$194.79	\$159.58	\$2,396.08
Increase Due to Rate Change	\$0.00	\$0.50	\$0.00	\$7.98	\$8.48
Totals	\$2,031.81	\$10.40	\$194.79	\$167.56	\$2,404.56
% Impact on Total Bill					0.35%

Sample Customer Bill Commercial (LP)

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
60,000 kWh and 15,000 cf Electric ECA	\$6,221.55 -\$450.00	\$14.85	\$558.10	\$455.58	\$7,250.08 -\$450.00
Totals	\$5,771.55	\$14.85	\$558.10	\$455.58	\$6,800.08
Increase Due to Rate Change Totals	\$0.00 \$5,771.55	\$0.75 \$15.60		\$22.78 \$478.36	\$23.53 \$6,823.61
% Impact on Total Bill		·	·	·	0.35%

Sample Customer Bill Commercial (LP)

Electric / Water Use	Electric Summer	Storm Water	Water Summer	Sewer	Total
		110101		3011.01	10101
100,000 kWh and 20,000 cf	\$10,284.95	\$44.55	\$779.20	\$603.58	\$11,712.28
Electric ECA	-\$750.00				-\$750.00
Totals	\$9,534.95	\$44.55	\$779.20	\$603.58	\$10,962.28
Increase Due to Rate Change	\$0.00	\$2.25	\$0.00	\$30.18	\$32.43
Totals	\$9,534.95	\$46.80	\$779.20	\$633.76	\$10,994.71
% Impact on Total Bill					0.30%

ORDINANCE NO.

AN ORDINANCE TO AMEND THE MUNICIPAL CODE OF THE CITY OF AMES, IOWA, BY AMENDING SECTION 28.304(3) THEREOF, FOR THE PURPOSE OF ESTABLISHING SEWER RATES REPEALING ANY AND ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT TO THE EXTENT OF SUCH CONFLICT; AND ESTABLISHING AN EFFECTIVE DATE.

BE IT ENACTED, by the City Council for the City of Ames, Iowa, that:

<u>Section One</u>. The Municipal Code of the City of Ames, Iowa shall be and the same is hereby amended by amending Section 28.304(3) as follows:

"Sec. 28.304. SEWER RATES ESTABLISHED.

. . .

(3) For each monthly billing on or after July 1, 2022, each customer shall be charged a minimum monthly charge. The minimum charge for each location shall be twelve dollars and sixteen cents (\$12.16). The minimum monthly charge may be prorated, based on a 30-day billing period, for the customer's initial and/or final bills, provided that in no case shall the prorated minimum monthly charge be less than four dollars and sixty-seven cents (\$4.67). In addition, for all water metered beginning with the first cubic foot each month, each user shall pay three dollars and eleven cents (\$3.11) per 100 cubic feet. (Ord. No. 3168, Sec. 1, 4-28-92; Ord. No. 3326, Sec. 2, 5-9-95; Ord. No. 3834, 5-24-05; Ord. No. 3956, 06-10-08; Ord. No. 4037, 5-11-10; Ord. No. 4144, 5-14-13; Ord. No. 4814, 5-27-14; Ord. No. 4215, 5-12-15; Ord. No. 4351, 5-8-18; Ord. 4408, 4-14-2020)."

<u>Section Two</u>. All ordinances, or parts of ordinances, in conflict herewith are hereby repealed to the extent of such conflict, if any.

<u>Section Three</u>. This ordinance shall be in full force and effect from and after its passage and publication as required by law.

Passed this	day of	·	
Diane R. Voss, Ci	ty Clerk	John A. Haila, Mayor	