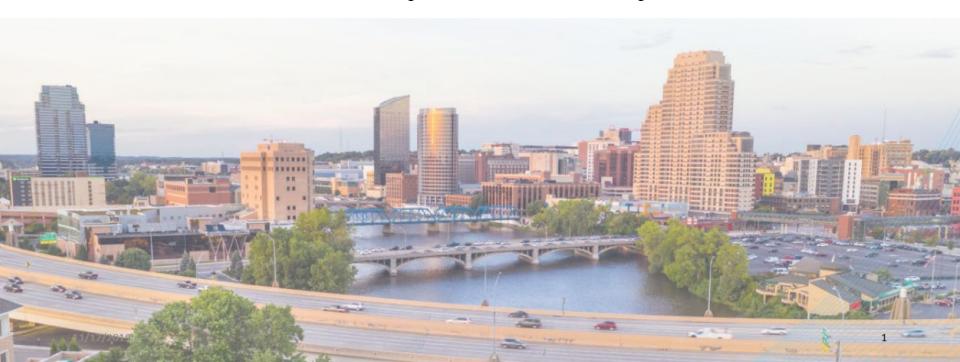
# Grand Rapids Water & Sewer Systems Preliminary Rate Study 2019





Water Supply System	Sewage Disposal Syste

Water Supply System		Sewage Disposal System				
Rate Study Year	Revenue Requirements	% change in RR over prev year	% gross rate incr (decr) **	Revenue Requirements	% change in RR over prev year	% gross rate incr (decr) **
2004	\$ 35,193,350	0.13%	4.41%	\$ 32,212,584	5.28%	9.03%
2005	37,329,089	6.07%	5.94%	36,283,756	12.64%	12.76%
2006	39,629,260	6.16%	0.63%	38,301,107	5.56%	4.94%
2007	40,270,271	1.62%	4.95%	42,742,825	11.60%	15.73%
2008	42,017,680	4.34%	2.45%	47,092,925	10.18%	14.69%
2009	42,939,752	2.19%	9.89%	51,378,424	9.10%	14.04%
2010	41,200,107	-4.05%	-6.27%	49,673,390	-3.32%	-3.30%
2011	41,802,404	1.46%	5.15%	50,082,541	0.82%	2.89%
2012	39,247,442	-6.11%	-4.41%	48,183,681	-3.79%	-2.46%
2013	38,646,748	-1.53%	-4.30%	48,946,212	1.58%	2.46%
2014	40,055,985	3.65%	2.50%	49,962,043	2.08%	2.81%
2015	40,178,439	0.31%	1.00%	49,868,027	-0.19%	0.30%
2016	41,187,517	2.51%	3.63%	50,400,344	1.07%	0.36%
2017	42,828,972	3.99%	2.45%	52,319,981	3.81%	3.08%
2018	43,868,464	6.51%	2.71%	54,611,300	8.36%	3.28%
2019*	45,748,236	6.82%	2.46%	56,969,417	8.89%	3.49%
AVG	40,758,982	2.13%	2.07%	47,439,285	4.60%	5.26%

Revenue Requirements per the 2019 Preliminary Rate Study.

<sup>\*\*</sup> The percentage gross rate increase (decrease) differs from the annual percentage change in Revenue Requirements due to differences in usage volumes/customers/application of Circuit Breaker.





Operating and
Maintenance
Expense

Assets:
Depreciation

& Return on Investment

Other Items:

CSO &

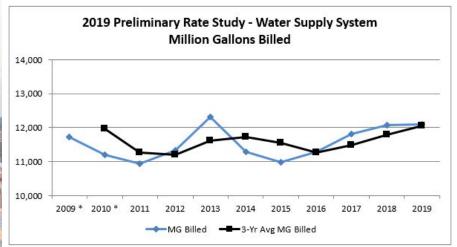
**Payback Agreements** 

Revenue Credits City and Customer Community Circuit Breaker

Billed Volume

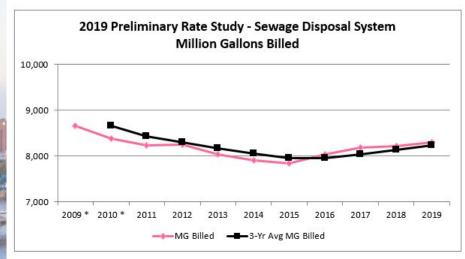


- 2019 Water volume up 0.26% over 2018
- 3-Yr Avg Water volume up by 2.22%



\* Volumes were restated from these Rate Studies to reflect actual billings without adjustment for accrued revenues.

- 2019 Sewer Volume up 1.01% from 2018
- 3-Yr Δνσ Sewer Volume un 1 ΠΔ%



<sup>\*</sup> Volumes were restated from these Rate Studies to reflect actual billings without adjustment for accrued revenues.

	Rate Drivers	% Impact	
	Increases:		
	O&M – Construction in Progress  Advanced Meter Program + other supplies  Staffing + Benefits  Electricity Costs Savings	2.11%	
	Integrated Connection Fees	0.27%	
	Assets – ROI and Depreciation	0.26%	La Contract
	Circuit Breaker Credit	0.04%	
	Decreases:		
	Revenue Credits	(0.22%)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Proposed Rate Increase	2.46%	
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Rate Impact Factors - Sewer

	Rate Drivers	% Impact
	Increases:	
	O&M – Construction in Progress Staffing + Benefits Advanced Meter Program Contractual Services/Temp Services Electricity Costs Savings	1.61%
	Assets – ROI and Depreciation (\$30M Biodigester Preload)	1.72%
	Revenue Credits	0.36%
	Circuit Breaker Credit	0.05%
	Decreases:	
	Capital Investment Reimbursement (Payback Agreement)	(0.16%)
10 to	Integrated Revenues	(0.05%)
LAS	CSO Debt Service Requirement (GR Only)	(0.04%)
M1/12/20	Proposed Rate Increase	3.49%





## Changes in project

- Market conditions
  - · RINs market price drop
  - · Additional firm pricing
  - Timing of project completion and generated revenue
- Additions to project scope

# Phasing of rates

- 2020 Sewer rates increase of \$3.16 per quarter or \$13 per year
- 2021 Sewer rates will be determined based on project timing and phase-in of revenues
- Rates can be mitigated by proven operation cost control efforts
- The biodigestion system will produce rate savings in future years

Project Budget	
Biodigester	\$57,286,593
RNG	14,821,200
Phosphorus	7,604,700
Consumers	995,000
Engineering	4,619,590
Total	\$85,327,083

# What has not changed

- Renewable energy and sustainability benefits remain strong
- Less costly than alternatives and those alternatives did not produce renewable energy and sustainability benefits

## **Moving forward**

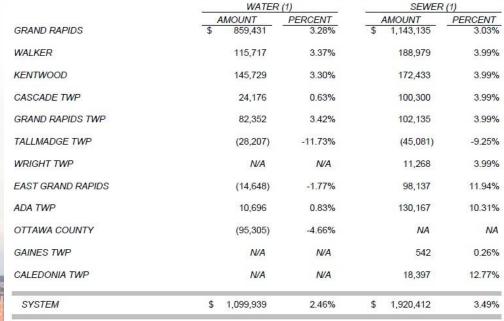
- Added capacity to the project team will now include new city engineer
- Complete bidding in mid-November (Phosphorus)



		Water/Sewer	
	City & Customer Community Circuit Breaker (CCCCB): Penalty Revenue (87.5%)*	\$843,397	
	Individual Circuit Breaker (ICB):		
	Penalty Revenue (12.5%)	120,486	
	Other Non-op Revenue	80,000	
	Total ICB	\$200,486	
	Total Circuit Breaker Funds	\$1,043,883	
	*CCCCB funds used in 2019 Rate Study	\$642,684	
2 00			THE STATE OF THE S
19/12/20			8

### Prelim 2020 Rate Impact by Community

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<sup>(1)</sup> Change in revenue requirements based on revenues currently generated from rates, customer base and volumes reported in the preliminary rate study (Includes consideration for relief from CCCCB).

### DISCLOSE RELIEF PROVIDED BY CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER (CCCCB)

WATER		SEWER	
AMOUNT	PERCENT	AMOUNT	PERCENT
\$ 45,748,236	2.46%	\$ 56,969,417	3.49%
366,203	0.82%	276,482	0.50%
\$ 46,114,439	3.28%	\$ 57,245,899	3.99%
	### AMOUNT \$ 45,748,236 366,203	AMOUNT PERCENT \$ 45,748,236 2.46% 366,203 0.82%	AMOUNT         PERCENT         AMOUNT           \$ 45,748,236         2.46%         \$ 56,969,417           366,203         0.82%         276,482



### Prelim 2020 Quarterly Bill by Community

	Prelim 2
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	APPROXIMATE QUARTERLY BILL		CHANGE	
	2019	2020	DOLLARS	PERCENT
GRAND RAPIDS	7724 NEGOEST	7/21 9/20/2021	1200 E0200	160 (006010)
WATER	\$ 86.28	\$ 89.28	\$ 3.00	3.48%
SEWER	119.04	122.20	3.16	2.65%
	\$ 205.32	\$ 211.48	\$ 6.16	3.00%
BASE RATIO	1.00	1.00		
WALKER				
WATER	\$ 85.32	\$ 88.41	\$ 3.09	3.62%
SEWER	133.55	138.99	5.44	4.07%
	\$ 218.87	\$ 227.40	\$ 8.53	3.90%
RATIO TO GR	1.07	1.08		
KENTWOOD				
WATER	\$ 87.48	\$ 90.81	\$ 3.33	3.81%
SEWER	73.22	76.44	3.22	4.40%
	\$ 160.70	\$ 167.25	\$ 6.55	4.08%
RATIO TO GR	0.78	0.79	26	
CASCADE TWP				
WATER	\$ 134.46	\$ 135.54	\$ 1.08	0.80%
SEWER	147.89	153.88	5.99	4.05%
	\$ 282.35	\$ 289.42	\$ 7.07	2.50%
RATIO TO GR	1.38	1.37	70,5	
GRAND RAPIDS TWP				
WATER	\$ 101.40	\$ 105.00	\$ 3.60	3.55%
SEWER	129.28_	134.53	5.25	4.06%
	\$ 230.68	\$ 239.53	\$ 8.85	3.84%
RATIO TO GR	1.12	1.13		
TALLMADGE TWP				
WATER	\$ 110.61	\$ 93.96	\$ (16.65)	-15.05%
SEWER	282.06	256.82	(25.24)	-8.95%
	\$ 392.67	\$ 350.78	\$ (41.89)	-10.67%
RATIO TO GR	1.91	1.66		

27.00 *UNITS OR* 19.00 *UNITS OR* 3

20,196 GALLONS

14,212 GALLONS

\* THE COMPARISONS ABOVE ARE BASED ON SYSTEM AVERAGE DOMESTIC CUSTOMER

QUARTERLY CONSUMPTION OF: WATER-SEWER -NO. OF MONTHS:





- November 8<sup>th</sup>: Prelim Rate Study available & 30-day review and comment period open for partner communities
- November 12<sup>th</sup>: Rate Study Presentation to City of Grand Rapids Commission & Initiation of 20 day Public Comment Period
- November 14<sup>th</sup>: Rate Study Presentation to Utility Advisory Board
- Late November/Early December: Meetings with Partner Communities
- December 17<sup>th</sup>: Approval of the 2020 Water and Sanitary Sewer System Rates by resolution by the City of Grand Rapids Commission

Rate studies available online at:

https://www.grandrapidsmi.gov/Government/Departments/Water-System/Water-and-Sewer-Rate-Studies