Grand Rapids Water & Sewer Systems Final Rate Study 2019

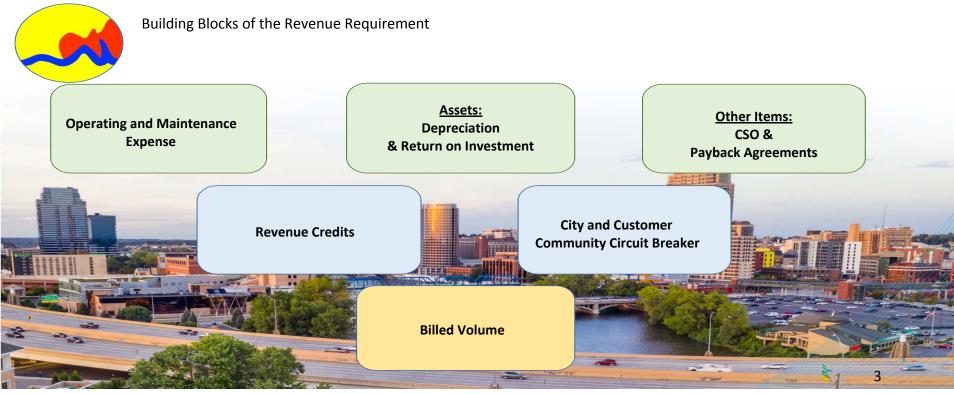




Historical Rate Changes

Rate Study Year	Water	Supply Sys	tem	Sewage Disposal System			
	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	2.43%	2.71%	54,611,300	4.38%	3.28%	
2019	45,752,997	4.30%	2.47%	56,969,417	4.32%	3.49%	
AVG	40,759,280	1.72%	2.08%	47,439,285	4.07%	5.26%	

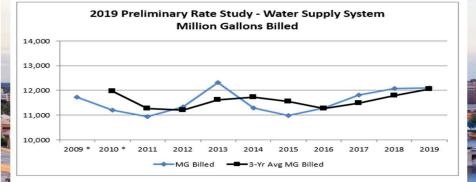
** The percentage gross rate increase (decrease) differs from the annual percentage change in Revenue Requirements due to differences in usage volumes/customers/application of Circuit Breaker.





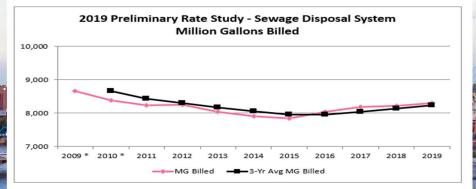
Billed Volume Average – Revenue Expectation

- 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 Avg Sewer Volume up 1.04%



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

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Rate Impact Factors - Water

Rate Drivers	% Impact	
Increases:		
O&M – Construction in Progress Advanced Meter Program + other supplies Staffing + Benefits Electricity Costs Savings		
	2.12%	
Integrated Connection Fees	0.27%	
Assets – ROI and Depreciation	0.26%	
Circuit Breaker Credit	0.04%	
Decreases:		
Revenue Credits	(0.22%)	
Proposed Rate Increase	2.47%	
California		

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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%)
Integrated Revenues	(0.05%)
CSO Debt Service Requirement (GR Only)	(0.04%)
Proposed Rate Increase	3.49%





Biodigester Project Update

Changes in project

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

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
Tot	al \$85,327,083

What has not changed

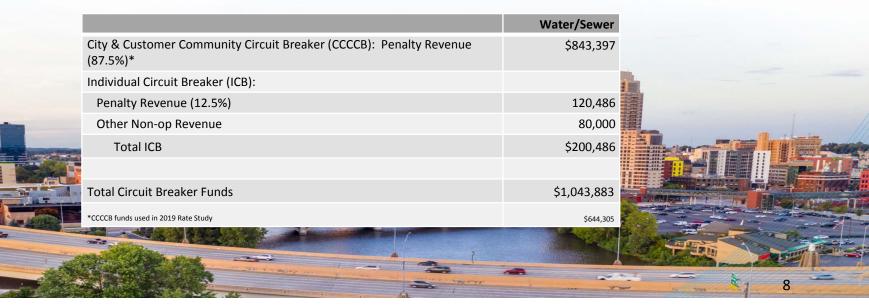
- Renewable energy and sustainability benefits remain strong
- Less costly than alternatives and those alternatives did not produce renewable energy and sustainability benefits

<u>Moving forward</u>

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



Circuit Breaker Calculation





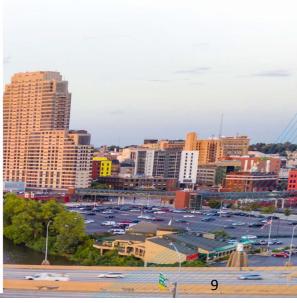
Prelim 2020 Rate Impact by Community

		WATER	SEWER (1)			
	A	MOUNT	PERCENT		AMOUNT	PERCENT
GRAND RAPIDS	\$	862,102	3.29%	\$	1,143,135	3.03%
WALKER		116,591	3.39%		188,979	3.99%
KENTWOOD		146,255	3.31%		172,433	3.99%
CASCADE TWP		24,176	0.63%		100,300	3.99%
GRAND RAPIDS TWP		83,041	3.44%		102,135	3.99%
TALLMADGE TWP		(28,207)	-11.73%		(45,081)	-9.25%
WRIGHT TWP		N/A	N/A		11,268	3.99%
EAST GRAND RAPIDS		(14,648)	-1.77%		98,137	11.94%
ADA TWP		10,696	0.83%		130,167	10.31%
OTTAWA COUNTY		(95,305)	-4.66%		NA	NA
GAINES TWP		N/A	N/A		542	0.26%
CALEDONIA TWP		N/A	N/A		18,397	12.77%
SYSTEM	S	1,104,700	2.47%	s	1,920,412	3.49%

(1) 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
SYSTEM REVENUE REQUIREMENT	\$	45,752,997	2.47%	\$	56,969,417	3.49%
ADD: CCCCB RELIEF		366,203	0.82%		278,102	0.51%
SYSTEM CHANGE- WITHOUT RELIEF	\$	46,119,200	3.29%	\$	57,247,519	3.99%





Prelim 2020 Quarterly Bill by Community

		APPROXIMATE G	UARTERLY BILL	CHAN	IGE	
		2019	2020	DOLLARS	PERCENT	
	GRAND RAPIDS					
	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%	
				\$ 0.10	3.00%	
	BASE RATIO	1.00	1.00			
	WALKER					
	WATER	\$ 85.32	\$ 88.44	\$ 3.12	3.66%	
	SEWER	133.55	138.99	5.44	4.07%	
	SEWER					
		\$ 218.87	\$ 227.43	\$ 8.56	3.91%	
	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%	- N I STATE
	SEWER					N I STATE OF THE OWNER
		\$ 160.70	\$ 167.25	\$ 6.55	4.08%	T - ANT DIALTY,
	RATIO TO GR	0.78	0.79			1 - HERE ATTEND
	CASCADE TWP					n - man n - fill i n - man n - fill i
		C 101 10	C 105.51	C 100	0.000/	T - MILLER JURY N
	WATER	\$ 134.46	\$ 135.54	\$ 1.08	0.80%	
	SEWER	147.89	153.88	5.99	4.05%	
I		\$ 282.35	\$ 289.42	\$ 7.07	2.50%	THE PARTY AND A DESCRIPTION OF
Color State	RATIO TO GR	1.38	1.37			IN R
ILA STREAM						
	GRAND RAPIDS TWP					
	WATER	\$ 101.40	\$ 105.03	\$ 3.63	3.58%	to I - I - I
	SEWER	129.28	134.53	5.25	4.06%	IN I - I I - I MARKET AND
		\$ 230.68	\$ 239.56	\$ 8.88	3.85%	
-	RATIO TO GR	1.12	1.13			
THE REAL PROPERTY AND INCOME.		1.12	1.13			and the second sec
	TALLMADGE TWP					and the second se
	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%	the state of the s
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- GARAGES	RATIO TO GR	1.91	1.66			
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Carlos Contra			00 UNITS OR			
Charles -	QUARTERLY CONSUMPTION OF		00 UNITS OR	20,196 GALLONS		
States and		NO. OF MONTHS:	3	14,212 GALLONS		
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Next Steps

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

1/8/2020 Rate studies available online at: https://www.grandrapidsmi.gov/Government/Departments/Water-System/Water-and-Sewer-Rate-Studies