

CITY OF GROSSE POINTE WOODS

20025 Mack Plaza Drive Grosse Pointe Woods, Michigan 48236-2397

(313) 343-2440 Fax (313) 343-2785

NOTICE OF MEETING AND **AGENDA**

COMMITTEE-OF-THE-WHOLE

Mayor Robert E. Novitke has called a meeting of the City Council, meeting as a Committee-of-the-Whole, for Monday, May 7, 2018, at 7:30 p.m. The meeting will be held in the Court/Council Chambers in the Municipal Building, 20025 Mack Plaza, Grosse Pointe Woods, MI 48236 and is accessible through the Municipal Court doors. In accordance with Public Act 267, the meeting is open to the public and the agenda items are as follows:

- 1. Call to Order
- 2. Roll Call
- 3. Acceptance of Agenda
- 4. Water/Sewer Study

- Email 04/09/18 K. Seidel, AEW Α.
- Option 1: No Change to Rates
- C. Option 2: 10% Reduction in Fixed – 0% Net Increase
- D. Option 3: No Change to Rates, Ultimate Meter
- Summary of Proposed Rate Options 05/02/18
- Customer Classes and Equivalent Meter Ratios 05/02/18
- G. Proposed Options 1-4 05/02/18
- New Business/Public Comment 5.
- 6. Adjournment

Bruce Smith City Administrator

IN ACCORDANCE WITH PUBLIC ACT 267 (OPEN MEETINGS ACT) POSTED AND COPIES GIVEN TO NEWSPAPERS

The City of Grosse Pointe Woods will provide necessary, reasonable auxiliary aids and services, such as signers for the hearing impaired, or audio tapes of printed materials being considered at the meeting to individuals with disabilities. All such requests must be made at least five days prior to a meeting. Individuals with disabilities requiring auxiliary aids or services should contact the City of Grosse Pointe Woods by writing or call the City Clerk's office, 20025 Mack Plaza, Grosse Pointe Woods, MI 48236 (313) 343-2440, Telecommunications Device for the Deaf (TDD) 313 343-9249, or e-mail the City Clerk at cityclk@gpwmi.us.

Council - 7 Berschback Smith

Hathaway Rec. Secretary Email Group

Media - Email Post -8 File

Lisa Hathaway

From: Cathy Behrens

Sent: Monday, April 09, 2018 6:04 PM

To: Lisa Hathaway Cc: Bruce Smith

Subject: FW: Grosse Pointe Woods Water and Sewer Rate Options Attachments: Option 1 Council Packet.pdf; Option 2 Council Packet.pdf

For the council packet

Cathrene Behrens Treasurer/Comptroller City of Grosse Pointe Woods 20025 Mack Avenue Grosse Pointe Woods, MI 48236 Phone (313) 343-2604 Fax (313) 343-2785

Email: cbehrens@gpwmi.us
Website: www.gpwmi.us

From: Kyle Seidel <kseidel@aewinc.com> Sent: Monday, April 9, 2018 4:01 PM

To: Bruce Smith <bsmith@gpwmi.us>; Cathy Behrens <cbehrens@gpwmi.us>

Cc: Scott Lockwood <slockwood@aewinc.com>

Subject: Grosse Pointe Woods Water and Sewer Rate Options

Bruce and Cathy-

Attached are two proposed water and sewer rate options for FY19.

- 1. Option 1: No Rate Change
- 2. Option 2: 10% Reduction in Fixed Fee for a Zero percent increase

Scott and I were hoping to sit down with you to go over these options, see if other options should be explored and plan for the COW meeting on April 30th. Would you be available to meet Wednesday April 18th to go over this? I believe Scott is in the city on this day. Let us know. Thanks.

Kyle M. Seidel, PE, CFM Senior Project Engineer

Anderson, Eckstein and Westrick, Inc.

51301 Schoenherr Road, Shelby Twp., MI 48315 Cell: 586-914-4354 Office: 586-726-1234

kseidel@aewinc.com

Engineering Strong Communities

www.aewinc.com

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			Op	tion 1: No	Change	to Rates							
			CITY	OF GROS	BLE 2a SE POIN LCULATI 2018-19		os						
	Typical Res.	Meter	ter Charge Billing Charge CIP Charge C		Commod	ty Charge	% Fixe	d GPW	% Fixe	d GLWA			
	Increase %	Water	Sewer	Water	Sewer	Water	Sewer	Water	Sewer	Water	Sewer	Water	Sewe
	mercase 70												
Existing Fixed Fees	n/a	\$ 14.53	\$ 31.14	5 1.04	\$ 1.04	\$ 10.89	\$ 10.89	\$ 3.57	\$ 2.60	41.6%	61.9%	60%	100%
			\$ 31.14 \$ 31.14			-		\$ 3.57 \$ 3.57	\$ 2.60 \$ 2.60	41.6% 41.6%	61.9% 61.9%	60% 60%	
Existing Fixed Fees Option 1: No Change to Rates Option 2: 10'/ Reduction in Fixed - 0'/, Net Increase	n/a	\$ 14.53	\$ 31.14	\$ 1.04		\$ 10.89	\$ 10.89						100% 100% 100%

Option 1: No Change to Rates TABLE 1 CITY OF GROSSE POINTE WOODS EXISTING AND PROPOSED WATER & SEWER RATE COMPARISON FY 2018-19 **EXISTING** PROPOSED PERCENT RATE CATEGORY RATE RATE CHANGE Meter Charge (2 Months) -Per Equivalent Meter Table 3 **Total Meter Charge** \$45.67 \$45.67 0.0% Billing Charge (2 Months) -Per Account **Total Billing Charge** \$2.08 0.0% \$2.08 Capital Improvement Charge (2 Months) - Per Equiv Meter Table 2 **Total CIP Charge** \$21.78 \$21.78 0.0% Commodity Charge - Water (Per CCF) **Total Commodity Water** \$3.57 \$3.57 0.0% Commodity Charge - Sewer (Per CCF) **Total Commodity Sewer** \$2.60 \$2.60 0.0% Total Costs With 10.4 CCF Use (2 Months) \$133.70 \$133.70 0.0% Industrial Waste Control Charges Per GLWA Adopted Rates

			Option 1	: No Chan	ge to Rates									
		C		OSSE PO	INTE WOO									
	Propose							Projected						
	FY 20	Later Company		019-20		20-21	FY 20			022-23		023-24		24-25
FEE NAME	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWE
Meter Charge (2 Month) - Per Equivalent Meter Table 3	-100	100		S- 5-3								7		
Assumed Number of Accounts	6,894	6,894	6,894	6,894	5,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894
Assumed Number of Equivalent Meters Table 2	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,85
Assumed Number of Equivalent Meters Table 3	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677
Total Calculated Fee	521.04	\$37.39	521,88	\$38.89	522.76	\$40.44	\$23.67	\$42.06	\$24.62	\$43,74	\$25.60	\$45,49	\$26.63	\$47.3
Miscellaneous Adjustment	-\$6,51	-\$6.25	-\$7.06	-57.12	-\$7.64	-\$8.04	-\$8.25	-59.01	-58.89	-\$10.03	-\$9.56	-511.11	-\$10.26	-512.2
Meter Charge Recommend Fee	\$14.53	\$31.14	\$14.82	\$31.76	\$15.12	\$32.40			\$15.73	\$33.71	\$16.04		\$16.36	
Billing Charge (2 Month) - Per Account Meter														
Total Calculated Value	\$1.64	\$1.64	\$1,70	\$1,70	\$1.77	\$1.77	\$1.84	\$1.84	\$1.91	\$1.91	\$1.99	\$1.99	\$2.07	\$2.0
Miscellaneous Adjustment	-50.60		-50.64	-50.64	-\$0.69	-\$0.69	-50.74	-50.74	-\$0.79	-\$0.79	-\$0.84		-\$0.90	-\$0.9
Billing Charge Recommended Fee	\$1.04	\$1.04	\$1.06	\$1.06	\$1.08	\$1.08	\$1.10	\$1.10	\$1.13	\$1.13	\$1.15		\$1.17	\$1.1
Capital Improvements Charge (2 Mo.) - Per Equivalent Meter Table 2												-		
Cash Financed Capital Improvements	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	57.53	\$7,53	\$7.53	\$7,53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.5
Debt Service	\$14,60	\$3,45	S14.G4	\$3,39	\$14,70	53,42	\$14.91	\$3,45	\$6,74	\$3.38	56.79	\$3.41	\$6.83	\$3.4
Total Calculated Fee	\$22.13	\$10.97	\$22.17	\$10.91	\$22.23	\$10.95	\$22,43	\$10.98	514.27	\$10.91	\$14.32	\$10.94	\$14.36	\$10.9
Miscellaneous Adjustment	-\$11.24	-\$0.08	-\$11.06	\$0.00	-\$10.90	\$0,00	-\$10,88	\$0.00	-52.48	\$0.00	-\$2.29	\$0.00	-\$2.10	\$0.0
CIP Charge Recommended Fee	\$10.89	\$10.89	\$11.11	\$10.91	\$11.33	\$10.95	\$11,56	\$10.98	\$11.79	\$10.91	\$12.02	\$10.94	\$12.26	
Commodity Charge Per CCF														
Assumed Retail Sales in CCF Per Year	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575,10
Calculated Fee per CCF	\$3.97	\$2.15	\$4.08	\$2.11	\$4.19	\$2.24	\$4.33	\$2,38	\$3.70	\$2.53	\$3.83	\$2.68	\$3.97	\$2.8
Recommended Commodity Fee	\$3.57	\$2.60	\$4.08	\$2.11	\$4.19	\$2.24	\$4.33	\$2.38	\$3.70	\$2.53	\$3.83	\$2.68	\$3.97	\$2.8
	FY 201	8-19	FY 20	19-20	FY 202	20-21	FY 202	2-22	FY 20	022-23	FY 20	23-24	FY 20	24-25
yp. Res. Payment (Using 10.4 CCF/2 Months)	\$133.	70	\$13		\$138	.92	\$143	.02	\$13	9.13	\$143	3.39	514	7.81
ypical Change on 2 Month Payment	0.09		1.1		2.8		3.09	/a	-2.	.7%	3.1	%	3.1	
Expenditures	\$8,507		\$7,78		\$8,000		\$8,228			4,790	\$8,25		58,49	7,802
Revenues	\$8,540		\$7,78		\$8,000		\$8,228			4,790	\$8,25		\$8,49	
Revenue/Deficit	\$33,0		S		\$0		\$0			0	50		5	
Estimated Utilities Fund Balance - Previous Year End	\$7,442		\$7,47		\$7,475		57,475			5,098	\$7,47		57,47	
Estimated Utilities Fund Balance - Current Year End	\$7,475,		\$7,47		\$7,475		\$7,475			5,098	\$7,47	5,098	\$7,47	5,098
Water and Sewer Rates Revenue % Fixed	50.6		51.		50.4		49.8			2%	51.5		50.8	
Percentage of Total Expense Budget	88%		96	%	939	Va	919	6	93	3%	91	%	86	%

\$5,344,217
\$6,479,741
\$7,442,000
\$7,442,000 Estimated
\$7,475,098 Projected

	allable Capital for Repa						
	Capital Improvements	Depreciation	Total				
Water System	\$400,000	5375,000	\$775,000				
Sanitary/Stm System	\$400,000	\$376,200	\$776,200				

Projected Future Year Increases
GPW O/M Projected Budget Increase
GLWA Projected Increase
NESDS Projected Increase 4.0% 4.0% 4.0%

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	Table 4c CITY OF GROSSE POINTE WOODS Equivalent Meter Ratio Tables FY 2018-19												
	Accounts	Table 1	Table 2	Table 3	Table 4								
Meter Size	y		Capital Impr. Fixed	Meter Fixed									
5/8	4,277	1.0	1.0	1.0	1.0								
3/4	1,367	1.0	1.0	1.0	1.0								
1.0	961	1.4	1.8	2.2	2.5								
1.5	213	1.8	2.9	4.0	5.0								
2.0	33	2.9	4.6	6.3	8.0								
3.0	25	11.0	12.7	14.4	16.0								
4.0	12	14.0	17.7	21.4	25.0								
6.0	6	21.0	30.7	40.4	50.0								
8.0	0	29.0	46.0	63.0	80.0								
10.0	0	58.3	77.2	96.1	115.0								
tal Equivalent Meters	6,894	8,451	8,857	9,677	10,376								

FY18 Rates Changed Meter Charge from Table 2 to Table 3
FY18 Rates Changed Capital Impr. Charge From Table 1 to Table 2
FY17 Rates Changed Meter Charge from Table 1 to Table 2

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Option 1: No Change to Rates TABLE 9 CITY OF GROSSE POINTE WOODS WATER / SEWER METER CHARGES FY 2018-19 Meter Charge - Per Equivalent Meter Existing Proposed GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per (Inch) Table 3 Per 2 Months RatioTable 3 Months Per Year Year Per Year % Change 5/8 1.0 \$45.67 \$274.02 1.0 \$45.67 \$274.02 0.0% \$0.00 3/4 1.0 \$45.67 \$274.02 1.0 \$45.67 \$274.02 \$0.00 0.0% 1 2.2 \$100.47 2.2 \$0.00 \$602.84 \$602.84 0.0% \$100.47 1.5 4.0 \$182.68 \$1,096.08 4.0 \$182.68 \$1,096.08 \$0.00 0.0% 2 6,3 \$287.72 \$1,726.33 6.3 \$287.72 \$1,726.33 \$0.00 0.0% 3 14.4 \$657.65 \$3,945.89 14.4 \$657.65 \$3,945.89 \$0.00 0.0% 4 21.4 \$977.34 \$5,864.03 21.4 \$977.34 0.0% \$5,864.03 \$0.00 6 40.4 \$11,070.41 40.4 \$1,845.07 \$1,845.07 \$11,070.41 \$0.00 0.0% Billing Charge (2 Month) - Per Account Meter All \$24.96 \$24.96 \$0.00 0.0% Capital Improvements Charge (2 Mo.) GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per (Inch) Table 2 Per 2 Months RatioTable 2 Months %Change Per Year Per Year Year 5/8 1.0 \$130.68 \$21.78 \$130.68 1.0 \$21.78 \$0.00 0.0% 3/4 1.0 \$21.78 \$130.68 1.0 \$21.78 \$130.68 \$0,00 0.0% \$0.00 0.0% 1 1.8 \$39.20 \$235.22 1.8 \$39.20 \$235.22 1.5 2.9 \$63.16 \$378.97 2.9 \$63.16 \$378.97 \$0.00 0.0% 4.6 \$100.19 \$601.13 4.6 2 \$100.19 \$601.13 \$0.00 0.0% 3 12.7 \$276.61 \$1,659.64 12.7 \$276.61 \$1,659.64 \$0.00 0.0% 4 17.7 17.7 \$385.51 \$2,313.04 \$385.51 \$2,313.04 \$0.00 0.0% 6 30,7 \$668.65 \$4,011.88 30.7 \$668.65 \$4,011.88 \$0.00 0.0% Total Residential Fixed Charged per \$69.53 \$429.66 \$69.53 \$0.00 \$429.66 0.0% 2 Months (5/8" or 3/4" Meter)

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		Ор	tioi		OF	TA GROS TE CA	BLE .	2a OINT LATI	E	WOOD		crease								
	Typical Res.	Meter Cha		harge		Billing	Charg	e	CIP Charge		ge	Commodity Charge		harge	% Fixed GPW		% Fixed GLWA			
	Increase %	Water	T	Sewer	Water		Sewer		Water		r Sewer		Water		Sewer		Water	Sewer	Water	Sewer
Existing Fixed Fees	n/a	3 14.5	3	\$ 31.14	\$	1.04	S	1.04	5	10.89	\$	10.89	\$	3.57	5	2.60	41.6%	61.9%	60%	100%
Option 1: No Change to Rates	0.0%	\$ 14.5	3	\$ 31.14	5	1.04	\$	1.04	\$	10.89	5	10.89	S	3.57	5	2.60	41.6%	61.9%	60%	100%
Option 2: 10% Reduction in Fixed - 0% Net Increase	-0.3%	\$ 13,0	8	5 28,03	5	1.04	S	1.04	\$	9,80	\$	9.80	\$	4.22	\$	2.56	35.3%	59,8%	60%	100%
Option 3: No Change to Rates, Ultimate Meter Ratios	0.0%	S 14.5	3	31.14	5	1.04	5	1.04	5	10.89	\$	10.69	\$	3.57	5	2.60	44.5%	64.2%		

Option 2: 10% Reduction in Fixe	d - 0% Net In	crease	
TABLE 1		4.	Action of
CITY OF GROSSE POIN	TE WOODS		
EXISTING AND PROPOSED WATER & SE	WER RATE C	OMPARISON	
FY 2018-19		41-	
	EXISTING	PROPOSED	PERCENT
RATE CATEGORY	RATE	RATE	CHANGE
Meter Charge (2 Months) -Per Equivalent Meter Table 3			
Total Meter Charge	\$45.67	\$41.11	-10.0%
Billing Charge (2 Months) -Per Account		170	
Total Billing Charge	\$2.08	\$2.08	0.0%
Capital Improvement Charge (2 Months) - Per Equiv Meter	Table 2		
Total CIP Charge	\$21.78	\$19.60	-10.0%
Commodity Charge - Water (Per CCF)			
Total Commodity Water	\$3.57	\$4.22	18.2%
Commodity Charge - Sewer (Per CCF)			
Total Commodity Sewer	\$2.60	\$2.56	-1.5%
Total Costs With 10.4 CCF Use (2 Months)	\$133.70	\$133.30	-0.3%
Industrial Waste Control Charges	Per GI	WA Adopted	Rates

		ption 2:	10% Redu			et Increase								
		C	TVOEGE	TABLE	INTE WOO	ne								
		C.			JECTIONS									
				FY 2018-1										
	Proposed	Rates						rojected	Rates					
	FY 201	8-19		219-20	FY 20		FY 20			022-23	FY 2	023-Z4	FY 20	024-25
FEE NAME	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWER	WATER	SEWE
Meter Charge (2 Month) - Per Equivalent Meter Table 3		mant.									1 1			
Assumed Number of Accounts	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,894	6,89
Assumed Number of Equivalent Meters Table 2	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,85
Assumed Number of Equivalent Meters Table 3	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,677	9,67
Total Calculated Fee	\$21.04	\$37.39	521.68	\$38.89	\$22.76	\$40.44	\$23.67	\$42.06	\$24.62	543.74	\$25.60	\$45.49	\$26.63	\$47.3
Miscellaneous Adjustment	-\$7.96	-\$9,36	-58.54	-\$10.30	-59,15	-\$11.28	-59.79	-\$12.31	-\$10.46	-\$13,40	-511.16	-\$14.54	-\$11.89	-\$15.7
Meter Charge Recommend Fee	\$13.08	\$28.03	\$13.34	\$28.59	\$13.61	\$29.16	\$13.88	\$29.75	\$14.16	\$30.34	\$14.44	\$30.95	\$14.73	\$31.5
Billing Charge (2 Month) - Per Account Meter												-		
Total Calculated Value	\$1.64	\$1,64	\$1.70	\$1.70	\$1,77	\$1.77	\$1.84	\$1.64	\$1.91	51.91	\$1.99	\$1.99	52,07	52.0
Miscellaneous Adjustment	-50.60	-\$0.60	-\$0.64	-\$0.64	-\$0,69	-\$0.69	-50.74	-\$0.74	-\$0.79	-\$0.79	-\$0.84			
Billing Charge Recommended Fee	\$1.04	\$1.04	\$1.06	\$1.06	\$1.08	\$1,08	\$1,10	\$1.10	\$1.13	\$1.13	\$1.15	\$1.15	\$1.17	\$1.17
Capital Improvements Charge (2 Mo.) - Per Equivalent Meter Table 2						-		-						
Cash Financed Capital Improvements	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.53	\$7.5
Debt Service	\$14.60	53.45	\$14.64	\$3.39	\$14.70	\$3.42	\$14.91	\$3.45	\$6.74	\$3.38	56.79	\$3,41	\$6.83	53.4
Total Calculated Fee	\$22.13	\$10.97	\$22.17	\$10.91	\$22.23	\$10,95	\$22.43	\$10.98	514.27	\$10.91	514.32	\$10.94	\$14.36	\$10,9
Miscellaneous Adjustment	-\$12.33	-\$1.17	-\$12.17	-50.92	-\$12.03	-\$0.75	-\$12.03	-\$0.58	-\$3.66	-\$0.30	-\$3,50	-\$0.12	-\$3,32	\$0.0
CIP Charge Recommended Fee	\$9.80	\$9,80	\$10.00	\$10,00	\$10,20	\$10.20	\$10.40	\$10.40	\$10.61	\$10.61	\$10.82	\$10.82	\$11.04	\$10,90
Commodity Charge Per CCF	T 54 30	2000			Talanta I	The Control of	200		11.05.4	7.0		UT DO		5
Assumed Retail Sales in CCF Per Year		575,100		575,100	575,100	575,100					575,100			
Calculated Fee per CCF	\$4.21	\$2.56	\$4.33	\$2.52	\$4.45	\$2.64	\$4.59	\$2.77	\$3.97	\$2.89	\$4.11	\$3.03	\$4.25	\$3.1
Recommended Commodity Fee	\$4.22	\$2.56	\$4.33	\$2.52	\$4.45	\$2.64	\$4.59	\$2.77	\$3.97	\$2.89	\$4.11	\$3,03	\$4.25	\$3.19
	FY 201		FY 20	19-20	FY 202	20-21	FY 202			22-23	FY 20		FY 20	24-25
Typ. Res. Payment (Using 10.4 CCF/2 Months)	\$133.		\$13		5139		\$143.			9.32	514		\$148	
Typical Change on 2 Month Payment	-0.39		1.5		2.5		3.09			7%	3.1		3.1	
Expenditures	\$8,507,		\$7,78		\$8,000		\$8,228			4,790	\$8,25		\$8,49	
Revenues	\$8,510,		\$7,78		\$8,000		\$8,228			4,790	\$8,25		\$8,49	
Revenue/Deficit	\$3,28		\$		50		\$0			0		0	S	
Estimated Utilities Fund Balance - Previous Year End	\$7,442,		\$7,44		\$7,445		\$7,445			5,283	\$7,44		\$7,44	
Estimated Utilities Fund Balance - Current Year End	\$7,445,		\$7,44		\$7,445		\$7,445			5,283	\$7,44		\$7,44	
Water and Sewer Rates Revenue % Fixed Percentage of Total Expense Budget	45.79		46.0		45.6 93°		45.1 90%			4%	46.		46.3	

\$5,344,217
\$6,479,741
57,442,000
\$7,442,000 Estimated
\$7,445,283 Projected

	allable Capital for Repa		Total
		Depreciation	
Water System		\$375,000	\$775,000
ianitary/Stm System	\$400,000	\$376,200	\$776,200

Projected Future Year Increases
GPW O/M Projected Budget Increase 4.0%
GLWA Projected Increase 4.0%
NESDS Projected Increase 4.0%

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	Table 4c CITY OF GROSSE POINTE WOODS Equivalent Meter Ratio Tables FY 2018-19												
	Accounts	Table 1	Table 2	Table 3	Table 4								
Meter Size			Capital Impr. Fixed	Meter Fixed									
5/8	4,277	1.0	1.0	1.0	1.0								
3/4	1,367	1.0	1.0	1.0	1.0								
1.0	961	1.4	1.8	2.2	2.5								
1.5	213	1.8	2.9	4.0	5.0								
2.0	33	2.9	4.6	6.3	8.0								
3.0	25	11.0	12.7	14.4	16.0								
4.0	12	14.0	17.7	21.4	25.0								
6.0	6	21.0	30.7	40.4	50.0								
8.0	0	29.0	46.0	63.0	80.0								
10.0	0	58.3	77.2	96.1	115.0								
otal Equivalent Meters	6,894	8,451	8,857	9,677	10,376								

FY18 Rates Changed Meter Charge from Table 2 to Table 3
FY18 Rates Changed Capital Impr. Charge From Table 1 to Table 2
FY17 Rates Changed Meter Charge from Table 1 to Table 2

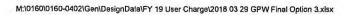


Option 2: 10% Reduction in Fixed - 0% Net Increase TABLE 9 CITY OF GROSSE POINTE WOODS WATER / SEWER METER CHARGES FY 2018-19 Meter Charge - Per Equivalent Meter Existing Proposed GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per (Inch) Table 3 Per 2 Months RatioTable 3 Per Year Months Year Per Year % Change 5/8 1.0 \$45.67 \$274.02 1.0 \$41.11 \$246.66 -\$27.36 -10.0% 3/4 1.0 \$45.67 \$274.02 1.0 -\$27.36 \$41,11 \$246.66 -10.0% 2.2 \$100.47 \$602.84 2.2 \$90.44 \$542.65 -\$60.19 -10.0% \$164.44 1.5 4.0 \$182.68 \$1,096.08 4.0 \$986.64 -\$109.44 -10.0% 2 6.3 \$287.72 \$1,726.33 6.3 \$258.99 \$1,553.96 -\$172.37 -10.0% 3 14.4 \$657.65 \$3,945.89 14.4 \$591.98 \$3,551.90 -10.0% -\$393.98 4 21.4 \$977.34 \$5,864.03 21.4 \$879.75 \$5,278.52 -\$585.50 -10.0% 6 40.4 \$1,845.07 \$11,070.41 40.4 \$1,660.84 \$9,965.06 -\$1,105.34 -10.0% Billing Charge (2 Month) - Per Account Meter All \$24,96 \$24.96 \$0.00 0.0% Capital Improvements Charge (2 Mo.) GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per (Inch) Table 2 Per 2 Months RatioTable 2 Per Year Months %Change Per Year Year 5/8 1.0 \$21.78 \$130.68 1.0 \$19.60 \$117.60 -\$13.08 -10.0% 3/4 1.0 \$21.78 \$130.68 1.0 \$19.60 \$117.60 -\$13.08 -10.0% 1.8 \$39.20 1.8 \$235.22 \$35.28 \$211.68 -\$23.54 -10.0% 1.5 2.9 \$63.16 \$378.97 2.9 \$341.04 \$56.84 -\$37.93 -10.0% \$100.19 2 4.6 \$601.13 4.6 \$90.16 \$540.96 -\$60.17 -10.0% 3 12.7 \$276.61 \$1,659.64 12.7 \$248.92 \$1,493.52 -\$166.12 -10.0% 17.7 \$385.51 17.7 \$2,313.04 \$346,92 \$2,081.52 -\$231.52 -10.0% 30.7 \$668.65 \$4,011.88 30.7 \$601.72 \$3,610.32 -\$401.56 -10.0% Total Residential Fixed Charged per \$69.53 \$429.66 \$62.79 \$389.22 -9.7% -\$40.44 2 Months (5/8" or 3/4" Meter)

			Optio		CITY	OF	TA GROS TE CA	SE	E 2a	TE	wood Wood		Ratio	S						
	Typical Res.		Meter Charge		rge		Billing	Cha	arge		CIP C	har	ge	Comm	odit	y Charge	% Fixe	d GPW	% Fixe	d GLWA
	Increase %	Water 5		S	ewer	Water		Sewer		Water		Sewer		Water		Sewer	Water	Sewer	Water	Sewer
Existing Fixed Fees	n/a	5 1	14.53	S	31.14	S	1.04	5	1.04	5	10.89	\$	10.89	\$ 3.	57	5 2.60	41.6%	61.9%	60%	100%
Option 1: No Change to Rates	0.0%	5 1	14.53	S	31.14	5	1.04	5	1.04	S	10.89	\$	10.89	\$ 3.	57	\$ 2.60	41.6%	61.9%	60%	100%
Option 2: 10% Reduction in Fixed - 0% Net Increase	-0.3%	5 1	13.08	\$	28.03	5	1.04	\$	1.04	5	9.80	S	9.80	S 4.	22	\$ 2.56	35.3%	59.8%	60%	100%
Option 3: No Change to Rates, Ultimate Meter Ratios	0.0%	5 1	4.53	\$	31.14	\$	1.04	S	1,04	\$	10.89	\$	10.89	5 3.	57	\$ 2.60	44.5%	64.2%	60%	100%

(12)

Option 3: No Change to Rates, U	ltimate Meter	Ratios	
TABLE 1			
CITY OF GROSSE POIN	TE WOODS		
EXISTING AND PROPOSED WATER & SE FY 2018-19	WER RATE C	OMPARISON	
	EXISTING	PROPOSED	PERCENT
RATE CATEGORY	RATE	RATE	CHANGE
Meter Charge (2 Months) -Per Equivalent Meter Table 4		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Total Meter Charge	\$45.67	\$45.67	0.0%
Billing Charge (2 Months) -Per Account			
Total Billing Charge	\$2.08	\$2.08	0.0%
Capital Improvement Charge (2 Months) - Per Equiv Meter	Table 4		
Total CIP Charge	\$21.78	\$21.78	0.0%
Commodity Charge - Water (Per CCF)			
Total Commodity Water	\$3.57	\$3.57	0.0%
Commodity Charge - Sewer (Per CCF)			
Total Commodity Sewer	\$2.60	\$2.60	0.0%
Total Costs With 10.4 CCF Use (2 Months)	\$133.70	\$133.70	0.0%
Industrial Waste Control Charges	Per Gl	WA Adopted	Rates





	0	ption 3:	No Chang			Motor Ratio	s							
		c		RATE PRO	INTE WOO									
	Propose	d Dates	_	FY 2018-1	19			-						
	FY 20		FY 2019-20		FY 2020-21		FY 20	Projected		000 00	-			
FEE NAME	WATER		WATER		WATER	SEWER	WATER			022-23		023-24		024-25
Meter Charge (2 Month) - Per Equivalent Meter Table 4	THATEIN	DEVVER	MAILK	JEVVEN	WATER	SEWER	WATER	SEVVER	WATER	SEWER	WATER	SEWER	WATER	SEWE
Assumed Number of Accounts	6.894	6.894	5,894	6,894	6.694	6.894	C 004						2020	
Assumed Number of Equivalent Meters Table 2	8.857	8.857	8.857	8,857	8,857	8.857	6,894 8,857	6,894 8,657	6,894	6,894	6,894	6,894	6,894	6,89
Assumed Number of Equivalent Meters Table 3	9,677	9.677	9,677	9,677	9,677	9,677	9,677		8,857	8,857	8,857	8,857	8,857	8,85
Assumed Number of Equivalent Meters Table 4	10,376	10,376	10,376	10,376	10,376	10,376	10,376	9,677 10,376	9,677 10,376	9,677 10,376	9,677 10,376	9,677	9,677	9,67
	,,,,,,,	,,,,,,	10,070	10,570	10,570	10,370	10,376	10,376	10,376	10,376	10,376	10,376	10,376	10,376
Total Calculated Fee	\$19.63	534.87	\$20,41	\$36,27	521.23	\$37.72	\$22.08	\$39.23	\$22,96	\$40.80	523,88	\$42.43	524.83	\$44.1
Miscellaneous Adjustment	-\$5,10	-\$3.73		-54.51	-56.11	-\$5.32	-\$6.66	-\$6.18	-\$7.23	-\$7.09		-\$8.05		
Meter Charge Recommend Fee	\$14.53	\$31.14	\$14.82	\$31.76	\$15,12	\$32,40	\$15.42	\$33.05	\$15.73	\$33.71	\$16.04			
Billing Charge (2 Month) - Per Account Meter														
Total Calculated Value	\$1.64	\$1.64	\$1,70	\$1,70	\$1,77	\$1.77	51.84	\$1.84	\$1,91	\$1.91	\$1,99	\$1,99	\$2.07	\$2.0
Miscellaneous Adjustment	-\$0.60	-\$0.60	-50.64	-\$0.64	-50.69	-\$0.69	-\$0.74	-\$0.74	-\$0.79	-50.79	-50.84	-\$0.84	-\$0.90	-\$0.9
Billing Charge Recommended Fee	\$1.04	\$1.04	\$1.06	\$1.06	\$1.08	\$1.08	\$1.10	\$1.10	\$1.13	\$1.13		\$1.15	\$1.17	\$1.1
Capital Improvements Charge (2 Mo.) - Per Equivalent Meter Table 4		-											- 2 5	
Cash Financed Capital Improvements	\$6,43	\$6,43	\$6,43	\$6,43	\$6,43	56.43	\$6,43	\$6.43	\$6,43	\$6.43	56,43	\$6,43	\$6.43	\$6.4
Debt Service	\$12,46	\$2,94	\$12.50	\$2.89	\$12,55	52,92	\$12.73	\$2.94	\$5,76	\$2.89	\$5,80	\$2,91	\$5,83	\$2.9
Total Calculated Fee	\$18.89	\$9.37	518.93	\$9.32	\$18.98	59.34	\$19,15	59.37	\$12.18	59.31	\$12.22	59,34	\$12.26	\$9.3
Miscellaneous Adjustment	-\$8.00	\$1.52	-\$7,82	\$0,00	-\$7.65	\$0,00	-\$7.60	\$0.00	-\$0.39	\$0.00	-\$0,20	\$0.00	\$0.00	50.0
CIP Charge Recommended Fee	\$10.89	\$10.89	\$11.11	\$9.32	\$11.33	\$9.34	\$11.56	\$9,37	\$11.79	\$9,31	\$12.02	\$9.34	\$12.26	\$9.3
Commodity Charge Per CCF	1								1	-	7.1-1.0	7,0,0,0	- 11.20	40.0
Assumed Retail Sales in CCF Per Year	575,100	575,100	575,100	575,100	575,100	575,100	575,100	575.100	575,100	575 100	575 100	575 100	575,100	575,10
Calculated Fee per CCF	\$3.69	\$1.75	\$3.79	\$1.88	\$3.91	\$2.01	54.04	\$2.14	53.40	\$2,28	\$3.53	52,43	\$3,66	\$2.5
Recommended Commodity Fee	\$3.57	\$2.60	\$3.79	\$1.88	\$3.91	\$2.01	\$4.04	\$2.14	\$3.40	\$2.28	\$3.53	\$2.43	\$3.66	\$2.5
	FY 2011	3-19	FY 20	19-20	FY 202	20-21	FY 202	2-22	FY 20	22-23	FY 20	23-24	FY 20	24-25
yp. Res. Payment (Using 10.4 CCF/2 Months)	\$133.	70	5128	3.16	\$131	.86	\$135.		7.1.	1.85	\$135		\$140	
ypical Change on 2 Month Payment	0.0%		-4.	1%	2.9		3.09			9%	3.1		3.2	
Expenditures	\$8,117,		\$7,40		\$7,612	.672	\$7,834,	491	\$7,61	5,495	\$7,840		\$8,08	
Revenues	\$8,540,		57,40	5,876	\$7,612	,672	\$7,834.	491	\$7,615,495		57,846,019		\$8,085,433	
Revenue/Deficit	\$422,8		51		\$0		\$0		50		\$0		50	1 1 7 1 1
Estimated Utilities Fund Balance - Previous Year End	\$7,442,		\$7,86		\$7,864		\$7,864,804		\$7,864,804		\$7,854,804		\$7,864,804	
Estimated Utilities Fund Balance - Current Year End	\$7,864,		\$7,85		\$7,864		\$7,864,804		\$7,864,804		\$7,864,804		\$7,864,804	
Water and Sewer Rates Revenue % Fixed	50,69		52.7		52.1		51.59	/6	54.	0%	53,3%		52.6	1%
Percentage of Total Expense Budget	97%		106	%	103	%	1009	6	103	3%	100	%	979	%

 Utilities Fund Ending Working Capital

 FY 2015 Ending Working Capital - June 30, 2015
 \$5,344,217

 FY 2016 Ending Working Capital - June 30, 2016
 \$6,479,741

 FY 2017 Ending Working Capital - June 30, 2017
 \$7,442,000

 FY 2018 Ending Working Capital - June 30, 2018
 \$7,442,000

 FY 2019 Ending Working Capital - June 30, 2019
 \$7,364,804

 FY 2019 Ending Working Capital - June 30, 2019
 \$7,364,804

	Capital Improvements	Depreciation	Total
Water System	\$400,000	\$375,000	\$775,000
Sanitary/Stm System	\$400,000	\$376,200	\$776,200

Projected Future Year Increases

GPW O/M Projected Budget Increase 4.0%
GLWA Projected Increase 4.0%
NESDS Projected Increase 4.0%

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	Table 4c CITY OF GROSSE POINTE WOODS Equivalent Meter Ratio Tables FY 2018-19											
	Accounts	Table 1	Table 2	Table 3	Table 4							
Meter Size			Capital Impr. Fixed	Meter Fixed								
5/8	4,277	1.0	1.0	1.0	1.0							
3/4	1,367	1.0	1.0	1.0	1.0							
1.0	961	1.4	1.8	2.2	2.5							
1.5	213	1.8	2.9	4.0	5.0							
2.0	33	2.9	4.6	6.3	8.0							
3.0	25	11.0	12.7	14.4	16.0							
4.0	12	14.0	17.7	21.4	25.0							
6.0	6	21.0	30.7	40.4	50.0							
8.0	0	29.0	46.0	63.0	80.0							
10.0	0	58.3	77.2	96.1	115.0							
al Equivalent Meters	6,894	8,451	8,857	9,677	10,376							

FY19 Rates Proposed to Change Meter Charge and CIP Charge to Table 4 (Ultimate Equivalent Ratios) FY18 Rates Changed Meter Charge from Table 2 to Table 3
FY18 Rates Changed Capital Impr. Charge From Table 1 to Table 2



Option 3: No Change to Rates, Ultimate Meter Ratios TABLE 9 CITY OF GROSSE POINTE WOODS WATER / SEWER METER CHARGES FY 2018-19 Meter Charge - Per Equivalent Meter Existing Proposed GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per Table 3 (Inch) Per 2 Months Per Year RatioTable 4 Months Year Per Year % Change 5/8 1.0 \$45.67 \$274.02 1.0 \$45.67 \$274.02 \$0.00 0.0% 3/4 \$274.02 1.0 \$45.67 1.0 \$274.02 0.0% \$45.67 \$0.00 1 2.2 \$100.47 \$602.84 2.5 \$114.18 \$685.05 \$82.21 13.6% 1.5 4.0 \$182.68 \$1,096.08 5.0 \$1,370.10 \$274.02 25.0% \$228.35 2 6.3 \$287.72 \$1,726.33 8.0 \$365.36 \$2,192.16 \$465.83 27.0% \$3,945.89 3 14.4 \$657.65 16.0 \$730.72 \$4,384.32 \$438.43 11.1% 21.4 \$977.34 \$5,864.03 25.0 \$1,141.75 \$6,850.50 \$986.47 16,8% 6 40.4 \$1,845.07 \$11,070.41 50.0 \$2,283.50 \$13,701.00 \$2,630.59 23.8% Billing Charge (2 Month) - Per Account Meter All \$24.96 \$24.96 \$0.00 0.0% Capital Improvements Charge (2 Mo.) GPW Equiv. GPW Equiv. Proposed Meter Size Meter Ratio Meter Per 2 Change Per Table 2 (Inch) Per 2 Months RatioTable 4 %Change Per Year Months Per Year Year 5/8 1.0 \$21.78 \$130.68 1.0 \$21.78 \$130.68 \$0.00 0.0% 3/4 1.0 \$21.78 \$130,68 1.0 \$21.78 \$130.68 \$0.00 0.0% 1 1.8 \$39,20 \$235.22 2.5 \$54.45 \$326.70 \$91.48 38.9% 1.5 2.9 \$378.97 5.0 72.4% \$63.16 \$108.90 \$653.40 \$274.43 2 4.6 \$100.19 \$601.13 8.0 \$174.24 \$1,045.44 \$444.31 73.9% 3 12.7 \$276.61 \$1,659.64 16.0 \$348.48 \$2,090.88 \$431.24 26.0% 4 17.7 \$385.51 \$2,313.04 25.0 \$544.50 \$3,267.00 \$953.96 41.2% 6 30.7 \$668,65 \$4,011.88 50.0 \$1,089.00 \$6,534.00 \$2,522.12 62.9% Total Residential Fixed Charged per \$69.53 \$429.66 \$69.53 \$429.66 \$0.00 0.0%

(10)

2 Months (5/8" or 3/4" Meter)



Page 1

Summary of Proposed Rate Options MAY -3 2018 TO BOSSE POINTE WOODS TO BUSINESSE PRINTE WOODS **EXISTING AND PROPOSED WATER & SEWER RATE COMPARISON** Typical Residential 2 Month Total Costs with 10.4 CCF Water Usage and a 5/8" or 3/4" Meter FY 2018-19

		E	cisting		Prop. C	Optio	on 1		Prop. C	Opti	on 2		Prop. C	Optio	n 3		Prop. (Opti	on 4
			Rates		Fee	Ch	ange		Fee	Ch	nange		Fee	Cha	ange		Fee	Ch	ange
Meter Char g Per Equivale	ge ent Meter (2 months)	\$	45.67	\$	45.67	\$	1.5	\$	41.11	\$	(4.56)	\$	45.67	\$	-41	\$	45.67	\$	÷
Billing Cha i Per Account		\$	2.08	\$	2.08	\$	÷	\$	2.08	\$	-	\$	2.08	\$	*	\$	2.08	\$	
	rovement Charge ent Meter (2 months)	\$	21.78	\$	21.78	\$	1.	\$	19.60	\$	(2.18)	\$	21.78	\$	•	\$	21.78	\$	-
Commodity (Per CCF)	Charge - Water	\$	3.57	\$	3.57	\$	19	\$	4.22	\$	6.76	\$	3.57	\$	÷	\$	4.35	\$	8.11
Commodity (Per CCF)	Charge - Sewer	\$	2.60	\$	2.60	\$	114	\$	2.56	\$	(0.42)	\$	2.60	\$	-	\$	2.82	\$	2.29
Typical Res Total Costs	sidential 2 Month	\$	133.70	\$	133.70	\$	-	\$	133.30	\$	(0.40)	\$	133.70	\$	-1	\$	144.10	\$	10.40
Option 1:	0.0% Change		Change arge)	to F	Rates, N	o Cha	ange to	Equ	uivalent l	Mete	er Ratios,	(Ta	able 2 fo	r CIP	Charg	e, Ta	able 3 fo	or Me	ter
Option 2:	-0.3% Change		% Reductible 3 for I											nt Met	ters, (T	able	2 for C	IP CI	narge,
Option 3:	0.0% Change	No	Change	to I	Rates, U	Itima	te Equiv	ale	nt Meter	Cha	irges (Ta	ble	4 for CI	P and	l Meter	Cha	arge)		
Option 4:	7.8% Change		Equivale able 2 for			-													atios



Customer Classes and Equivalent Meter Ratios

	WATER SERVICES BY CUSTOMER CLASS (APRIL 2018) CITY OF GROSSE POINTE WOODS FY 2018-19													
Customer Class	5/8	3/4	1	1.5	2	3	4	6	Total					
Residential	4,181	1,288	892	187	12	0	0	0	6,560					
Commercial	96	78	69	23	12	11	7	2	298					
Industrial	0	0	0	0	0	0	0	0	0					
Municipal	0	1	0	4	1	0	0	0	6					
Inst./Recreational	0	1	0	3	8	14	5	4	35					
TOTAL	4,277	1,368	961	217	33	25	12	6	6,899					

EQUI	EQUIVALENT METER RATIO TABLES 1 THROUGH 4 CITY OF GROSSE POINTE WOODS FY 2018-19												
Meter Size	Accounts	Table 1	Table 2	Table 3	Table 4								
Weter Size	Accounts	Ratios	Ratios	Ratios	Ratios								
5/8	4,277	1.0	1.0	1.0	1.0								
3/4	1,368	1.0	1.0	1.0	1.0								
1.0	961	1.4	1.8	2.2	2.5								
1.5	217	1.8	2.9	4.0	5.0								
2.0	33	2.9	4.6	6.3	8.0								
3.0	25	11.0	12.7	14.4	16.0								
4.0	12	14.0	17.7	21.4	25.0								
6.0	6	21.0	30.7	40.4	50.0								
Total Meters	6,899												

FY18 Rates Changed Meter Charge from Table 2 to Table 3

FY18 Rates Changed Capital Impr. Charge From Table 1 to Table 2

FY17 Rates Changed Meter Charge from Table 1 to Table 2



Proposed Option 1 - Two Month Average Charges Page 3

			Option	1: No Cha	inge to Ra	tes			
		AVERA		OMER CHA GROSSE F FY 2018	POINTE W		SIZE		
Matau Cina	Ave Heave	Existin	g 2 Month	Charge	Propos	ed 2 Month			
Meter Size (Inch)	Avg. Usage (ccf)	Usage Charge	Fixed Charge	Total Charge	Usage Charge	Fixed Charge	Total Charge	Change	% Change
5/8 or 3/4	10.4	\$64.17	\$69.53	\$133.70	\$64.17	\$69.53	\$133.70	\$0.00	0.0%
1	21.9	\$135.12	\$141.76	\$276.88	\$135.12	\$141.76	\$276.88	\$0.00	0.0%
1.5	33.5	\$206.70	\$247.92	\$454.62	\$206.70	\$247.92	\$454.62	\$0.00	0.0%
2	109.8	\$677.47	\$389.99	\$1,067.46	\$677.47	\$389.99	\$1,067.46	\$0.00	0.0%

Fixed CIP Ratios from Table 2 Fixed Meter Ratios from Table 3



Proposed Option 2 - Two Month Average Charges Page 4

		Option	2: 10% Re	duction in	Fixed - 0%	6 Net Incr	ease		
		AVERA		OMER CHA GROSSE F FY 2018	POINTE W		SIZE		
Meter Size	Ava Head	Existin	g 2 Month (Charge	Propos	ed 2 Month			
(Inch)	Avg. Usage (ccf)	Usage Charge	Fixed Charge	Total Charge	Usage Charge	Fixed Charge	Total Charge	Change	% Change
5/8 or 3/4	10.4	\$64.17	\$69.53	\$133.70	\$70.51	\$62.79	\$133.30	-\$0.40	-0.3%
1	21.9	\$135.12	\$141.76	\$276.88	\$148.48	\$127.80	\$276.28	-\$0.60	-0.2%
1.5	33.5	\$206.70	\$247.92	\$454.62	\$227.13	\$223.36	\$450.49	-\$4.13	-0.9%
2	109.8	\$677.47	\$389.99	\$1,067.46	\$744.44	\$351.23	\$1,095.68	\$28.22	2.6%

Fixed CIP Ratios from Table 2 Fixed Meter Ratios from Table 3

Proposed Option 3 - Two Month Average Charges Page 5

		Option 3	3: No Chai	nge to Rate	es, Ultimat	e Meter R	atios						
	AVERAGE CUSTOMER CHARGES PER METER SIZE CITY OF GROSSE POINTE WOODS FY 2018-19												
Meter Size	Ava Hoogo	Existin	ng 2 Month Charge Proposed 2 Month Charge										
(Inch)	Avg. Usage (ccf)	Usage	Fixed	Total	Usage	Fixed	Total	Change	% Change				
()	100.7	Charge	Charge	Charge	Charge	Charge	Charge						
5/8 or 3/4	10.4	\$64.17	\$69.53	\$133.70	\$64.17	\$69.53	\$133.70	\$0.00	0.0%				
1	21.9	\$135.12	\$141.76	\$276.88	\$135.12	\$170.71	\$305.83	\$28.95	10.5%				
1.5	33.5	\$206.70	\$247.92	\$454.62	\$206.70	\$339.33	\$546.03	\$91.41	20.1%				
2	109.8	\$677.47	\$389.99	\$1,067.46	\$677.47	\$541.68	\$1,219.15	\$151.69	14.2%				

Fixed CIP Ratios from Table 4
Fixed Meter Ratios from Table 4

Proposed Option 4 - Two Month Average Charges Page 6

Option 4: No Equivalent Meter for Residential (Commodity Increase) AVERAGE CUSTOMER CHARGES PER METER SIZE (RESIDENTIAL) CITY OF GROSSE POINTE WOODS FY 2018-19 Existing 2 Month Charge Proposed 2 Month Charge Meter Size Avg. Usage Usage Change % Change Fixed Total Usage Fixed Total (Inch) (ccf) Charge Charge Charge Charge Charge Charge 5/8 or 3/4 10.4 \$64.17 \$69.53 \$133.70 \$74.57 \$10.40 \$69.53 \$144.10 7.8% 21.9 \$135.12 \$141.76 \$276.88 \$157.02 \$69.53 \$226.55 -\$50.33 -18.2% 1.5 33.5 \$206.70 \$247.92 \$454.62 \$240.20 \$69.53 \$309.73 -\$144.89 -31.9% 2 109.8 \$677.47 \$389.99 \$1,067.46 \$787.27 \$69.53 \$856.80 -\$210.66 -19.7%

Fixed CIP Per Account for Residential Fixed Meter Per Account for Residential

5/2/2018