

WATER

III Attachment 3

City of Moscow Mills

Appendix C: Replacement Fund Annual Annuity

Appendix C to Chapter 111-User Charge System  
Passed by Ordinance #842 on 12/17/18

REPLACEMENT FUND ANNUITY

(from schedule provided by city on 8/7/18)

(A separate sheet showing what items are to be replaced, what year, and estimated replacement cost, should also be attached.)

	<i>Inflation</i>		3.00%								
	<i>Interest</i>		0.25%								
	<i>Initial Balance</i>		\$580,878.02								
			3.00%								
<u>Year</u>	<u>Estimated Replacement Costs</u>	X	<u>Compound Amount Factor (F/P)</u>	=	<u>Future Worth</u>	X	<u>Present Worth Factor (P/F)</u>	=	<u>Adjusted Present Worth</u>	<u>Interest on Fund Balance</u>	<u>Net Fund Balance</u>
	<i>Initial Balance</i>										\$580,878.02
1	\$179,765.00		1.030000		\$185,157.95		0.997506		\$184,696.21	1,452.20	\$547,087.97
2	\$461,250.00		1.060900		489,340.13		0.995019		\$486,902.57	1,367.72	\$209,031.27
3	\$78,000.00		1.092727		85,232.71		0.992537		\$84,596.64	522.58	\$274,236.84
4	\$153,000.00		1.125509		172,202.85		0.990062		\$170,491.53	685.59	\$252,635.28
5	\$64,250.00		1.159274		74,483.36		0.987593		\$73,559.26	631.59	\$328,699.21
6	\$63,000.00		1.194052		75,225.29		0.985130		\$74,106.72	821.75	\$404,211.37
7	\$268,500.00		1.229874		330,221.13		0.982674		\$324,499.62	1,010.53	\$224,916.47
8	\$92,750.00		1.266770		117,492.93		0.980223		\$115,169.28	562.29	\$257,901.53
9	\$32,000.00		1.304773		41,752.74		0.977779		\$40,824.94	644.75	\$366,709.24
10	\$104,000.00		1.343916		139,767.30		0.975340		\$136,320.69	916.77	\$377,774.41
11	\$145,250.00		1.384234		201,059.97		0.972908		\$195,612.87	944.44	\$327,574.58
12	\$255,500.00		1.425761		364,281.91		0.970482		\$353,528.98	818.94	\$114,027.31
13	\$100,000.00		1.468534		146,853.37		0.968062		\$142,163.13	285.07	\$117,374.71
14	\$65,250.00		1.512590		98,696.48		0.965648		\$95,306.02	293.44	\$168,887.37
15	\$78,000.00		1.557967		121,521.46		0.963239		\$117,054.27	422.22	\$197,703.83
16	\$58,000.00		1.604706		93,072.97		0.960837		\$89,427.99	494.26	\$255,040.82
17	\$331,750.00		1.652848		548,332.20		0.958441		\$525,544.23	637.60	(\$142,738.08)
18	\$68,000.00		1.702433		115,765.45		0.956051		\$110,677.69	(356.85)	(\$108,944.68)
19	\$62,000.00		1.753506		108,717.38		0.953667		\$103,680.17	(272.36)	(\$68,018.72)
20	<u>45,250.00</u>		1.806111		81,726.53		0.951289		\$77,745.53	(170.05)	\$0.40
	\$2,705,515.00								\$ 3,501,908.00		
					Less Initial Deposit				(\$580,878.02)		
									\$ 2,921,029.98		
					Capital Recovery Factor		X		0.051323		
					Annual Annuity				<u>\$149,915.70</u>		